

Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Marine Adhesive Sealant 5200, White, PN 05203, PN 05206, PN 06500

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes Division

Marine & Specialty Vehicle

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 08/21/12 Supercedes Date: 06/08/12

Document Group: 16-3092-0

Product Use:

Intended Use:

Sealant

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by	Wt
Urethane Prepolymer	68611-34-7	40 -	70
Talc	14807-96-6	15 -	40
Titanium Dioxide	13463-67-7	5 -	10
Diethylene Glycol Monoethyl Ether Acetate	112-15-2	1 -	\$
Fumed Silica	112945-52-5	0.5	5
Zinc Oxide	1314-13-2	1 - [\$
Alkyl Isocyanate Silane	85702-90-5	0.5	1.5
Toluene Diisocyanate	26471-62-5	< 0.5	1
Heptane	142-82 - 5	< 0.2	3
(Gamma-mercaptopropyl)trimethoxysilane	4420-74-0	< 0.1	6

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste Odor, Color, Grade: White General Physical Form: Solid MATERIAL SAFETY DATA SHEET 3M(TM) Marine Adhesive Sealant 5200, White, PN 05203, PN 05206, PN 06500 08/21/12

Immediate health, physical, and environmental hazards: May cause allergic skin reaction. May cause allergic respiratory reaction. Contains a chemical or chemicals which can cause cancer. May cause target organ effects.

3.2 POTENTIAL HEALTH EFFECTS

Eve Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and iching.

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May be absorbed following inhalation and cause target organ effects.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient C.A.S. No. Class Description

Toluene Diisocyanate 26471-62-5 Grp. 2B: Possible human carc. International Agency for Research on Cancer Toluene Diisocyanate 26471-62-5 Anticipated human carcinogen National Toxicology Program Carcinogens

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature

Not Applicable

Flash Point

No flash point

Flammable Limits(LEL)

No Data Available

Flammable Limits(UEL)

No Data Available

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Avoid contact with water.

6.2. Environmental precautions

Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Dispose of collected material as soon as possible.

Clean-up methods

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid skin contact. Avoid breathing of vapors. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Do not ingest. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not use heat to aid in the removal of the product. The application of heat may generate levels of Toluene Diisocyanate (TDI) in excess of the TLV.

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7.2 STORAGE

Store away from heat. Store out of direct sunlight. Keep container tightly closed. Store away from areas where product may come into contact with food or pharmaceuticals. Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Indirect Vented Goggles

8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber

8.2.3 Respiratory Protection

Avoid breathing of vapors. Avoid breathing of dust created by sanding, grinding or machining.

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable.

8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	<u>Limit</u>	Additional Information
FREE ISOCYANATES	Manufacturer	TWA	0.005 ppm	i i
	determined			
FREE ISOCYANATES	Manufacturer	STEL	0.02 ppm	
	determined			
Heptane	ACGIH	TWA	400 ppm	!
Heptane	ACGIH	STEL	500 ppm	ìl
Heptane	OSHA	TWA	2000 mg/m3	
Heptane	ACGIH	TWA	400 ppm	ll l
Heptane	ACGIH	STEL	500 ppm	ll l
Heptane	OSHA	TWA	2000 mg/m3	ll l
Heptane, all isomers	ACGIH	TWĄ	400 ppm	li
Heptane, all isomers	ACGIH	STEL	500 ppm	1
SILICA, AMORPHOUS	OSHA	TWA concentration	0.8 mg/m3	

MATERIAL SAFETY DATA SHEET 3M(TM) Marine Adhesive Sealant 5200, White, PN 05203, PN 05206, PN 06500 0

SILICA, AMORPHOUS	OSHA	TWA	20 millions of
			particles/cu. ft.
Talc	ACGIH	TWA, respirable	2 mg/m3
		fraction	_
Talc	CMRG	TWA, as respirable	0.5 mg/m3
		dust	
Talc	OSHA	TWA concentration,	0.1 mg/m3
		respirable	
Talc	OSHA	TWA concentration,	0.3 mg/m3
		as total dust	
Talc	OSHA	TWA	20 millions of
			particles/cu. ft.
Titanium Dioxide	ACGIH	TWA	10 mg/m3
Titanium Dioxide	CMRG	TWA, as respirable	5 mg/m3
		dust	<u>.</u>
Titanium Dioxide	OSHA	TWA, as total dust	15 mg/m3.
Toluene Diisocyanate	ACGIH	TWA	0.005 ppm Sensitizer
Toluene Diisocyanate	ACGÏH	STEL	0.02 ppm Sensitizer
Zinc Oxide	ACGIH	TWA respirable	2 mg/m3
		fraction	
Zinc Oxide	ACGIH	STEL, respirable	10 mg/m3
		fraction	
Zinc Oxide	OSHA	TWA, as fume	5 mg/m3
Zinc Oxide	OSHA	TWA, respirable	5 mg/m3
		fraction	
Zinc Oxide	OSHA	TWA as total dust	15 mg/m3

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Paste Specific Physical Form: White Odor, Color, Grade: Solid General Physical Form: Not Applicable Autoignition temperature Flash Point No flash point No Data Available Flammable Limits(LEL) Flammable Limits(UEL) No Data Available **Boiling Point** No Data Available 1 36 g/ml Density No Data Available Vapor Density No Data Available Vapor Pressure Specific Gravity 1.36 [*Ref Std:* WATER=1] pН No Data Available No Data Available Melting point

Solubility In Water

No Data Available

Evaporation rate

No Data Available

Hazardous Air Pollutants 0 lb HAPS/lb solids [Test Method: Calculated]

Volatile Organic Compounds 40 g/l [Test Method: tested per EPA method 24] [Details: EU VOC

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Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents 4	ntent] Io Data Available Io Weight Io g/I [Test Method: tested per EPA method 00,000 - 500,000 centipoise	24]
SECTION 10: STABILITY AND REACTI	VITY	
Stability: Stable.		
Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat		
10.2 Materials to avoid Reaction with water, alcohols, and amines is not hazardous if con Amines Alcohols Water		
Reaction with water, alcohols, and amines is not hazardous if con	tainer can vent to the atmosphere to prevent	pressure buildup.
Hazardous Polymerization: Hazardous polymerization will not	occur.	
Hazardous Decomposition or By-Products		
lsocyanates Dur Carbon monoxide Dur Carbon dioxide Dur Hydrogen Cyanide Dur Irritant Vapors or Gases Dur	ing Combustion	
SECTION 11: TOXICOLOGICAL INFOR	MATION	
	<u>. </u>	
Please contact the address listed on the first page of the MSD components.	S for Toxicological Information on this mat	erial and/or its
CECTION 14 ECOLOGYCLI THEODINA	TON	
SECTION 12: ECOLOGICAL INFORMA	TION	
ECOTOXICOLOGICAL INFORMATION		
Test Organism Test Type	<u>Result</u> NA % weight	
Not determined.		,
CHEMICAL FATE INFORMATION		

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Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of completely cured (or polymerized) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):

60-4100-0946-2, 60-4100-0947-0, 60-4100-0967-8, 60-9800-4300-8, 60-9801-0556-7, 60-9801-0843-9, 62-5236-3, 62-5239-5230-7

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
Zinc Oxide (ZINC COMPOUNDS)	1314-13-2	1 - 5
Diethylene Glycol Monoethyl Ether Acetate	112-15-2	1 - 5
(GLYCOL ETHERS)	•	
Toluene Diisocyanate	26471-62-5	< 0.5

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

<u>Ingredient</u>	C.A.S. No.	Classification
Toluene Diisocyanate	26471-62-5	**Carcinogen

^{**} WARNING: contains a chemical which can cause cancer.

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CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 8: Respiratory protection - recommended respirators was modified.

Section 3: Immediate other hazard(s) was modified.

Section 8: Respiratory protection - recommended respirators guide was modified.

Section 14: ID Number(s) Template 1 was modified.

Section 8: Respiratory protection - recommended respirators punctuation was deleted.

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Version Number:

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Issue Date:

06/16/14

Supercedes Date:

07/05/12

SECTION 1: Identification

1.1. Product identifier

3M(TM) SILICONE LUBRICANT PLUS; PN 08877

Product Identification Numbers 60-4100-0944-7, 60-4550-6905-8

1.2. Recommended use and restrictions on use

Recommended use

Automotive, High Solids Silicone Lubricant

1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Automotive Aftermarket

ADDRESS:

3M Center, St. Paul, MN 55144-1000, USA

Telephone:

1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

Flammable Aerosol: Category 1.

Aspiration Hazard; Category 1.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Extremely flammable aerosol.

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system |

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed: Call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see Notes to Physician on this label).

Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place.

Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Isobutane	75-28-5	50 - 60 Trade Secret *
Hydrotreated Light Petroleum Distillates	64742-47-8	20 - 40 Trade Secret *
Poly(Dimethylsiloxane)	63148-62-9	7 - 13 Trade Secret *

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eve Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide Carbon dioxide Condition

During Combustion During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Vapors may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F from heat. Store away from acids. Store away from oxidizing agents.

Store away

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Ī	Limit type	Additio	nal Comments
Hydrotreated Light Petroleum	64742-47-8	CMRG		TWA:165 ppm		
Distillates						
Isobutane	75-28-5	ACGIH	i	STEL:1000 ppm		

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray.

If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

As a good industrial hygiene practice:

Wear eye/face protection.

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Wear protective gloves.

Gloves made from the following material(s) are recommended: Butyl Rubber

Nitrile Rubber

Respiratory protection

In case of inadequate ventilation wear respiratory protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure. Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:

Liquid

Specific Physical Form:

Aerosol

Odor, Color, Grade:

transparent, solvent odor No Data Available

Odor threshold

Not Applicable

pН

Man A Paul la

Melting point

Not Applicable

Flash Point

-50.00 °F [Details: Flash point of propellant]

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

No Data Available

Flammable Limits(UEL)

No Data Available

Vapor Density

>=1 [Ref Std: AIR=1]

Density

0.65 g/ml

Specific Gravity

0.65 [Ref Std: WATER=1]

Solubility in Water

Nil

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

Viscosity

Hazardous Air Pollutants

Volatile Organic Compounds

Volatile Organic Compounds

Percent volatile

VOC Less H2O & Exempt Solvents

No Data Available

No Data Available

No Datà Available

No Data Available

0 % weight [Test Method: Calculated]

60 % weight [Test Method: calculated per CARB title 2]

390 g/l [Test Method: calculated SCAQMD rule 443.1]

60% weight

390 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

Sparks and/or flames

10.5. Incompatible materials

Not determined

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eve Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE ≥ 5,000 mg/kg
Isobutane	Inhalation;	Rat	LC50 276,000 ppm
	Gas (4	1	
	hours)	1	
Hydrotreated Light Petroleum Distillates	Dermal	Rabbit	LD50 > 3,160 mg/kg
Hydrotreated Light Petroleum Distillates	Inhalation-	Rat	LC50 > 3.0 mg/l
	Dust/Mist	1	
	(4 hours)	1	
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Poly(Dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(Dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Isobutane		No significant irritation
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Poly(Dimethylsiloxane)	Rabbit	No significant irritation

Serious Eye Damage/Irritation

					İ		ē		
	-						,		
Name Isobutane					Species	Valu			
Hydrotreated Light Petro	leum Distillates				Rabbit		ignificant irri irritant	tation	1
Poly(Dimethylsiloxane)	Distinates				Rabbit		ignificant irri	tation	1
							igiiriouni iii		1
Skin Sensitization									1
Name					Species	Valu	ie	_	
Hydrotreated Light Petrol	leum Distillates				Guinea	Not s	sensitizing	-	i
					pig				<u> </u>
Dosnivatory Considir	ation				<u> </u>				
Respiratory Sensitiza Name	<u>auon</u>			<u> </u>	Species	Valu			
		-			' Species	Valu	<u> </u>		1
		<u> </u>			1				<u> </u>
Germ Cell Mutageni	icity								
Name					Route	Valu			i
Isobutane	15 5 - 299				In Vitro		mutagenic		I .
Hydrotreated Light Petrol	eum Distillates				In Vitro	Not 1	mutagenic		1
Carcinogenicity					I				il .
Name				Route	! Species	Valu			1
Hydrotreated Light Petrol	leum Distillates			Dermal	i Mouse			a exist, but the da	tá are not
·					1		cient for class		
		_							Duration
	_	_ _	<u> </u>		<u> </u>	-			1
arget Organ(s)	_				<u>:</u> 	-			
			<u> </u>		<u>:</u> ! ! !				
Specific Target Orga					 	-			
Carget Organ(s) Specific Target Orga Name	n Toxicity - s	single expos		Value	 	-	Species	Test Result	Exposure
Specific Target Orga					pe to organs		<u> </u>		Exposure Duration
Specific Target Orga Name	Route	Target Orga		Value Causes dama	ge to organs		Species Multiple animal	Test Result NOAEL Not available	
Specific Target Orga Name Isobutane	Route	Target Orga cardiac sensitization	n(s) ———	Causes dama	,		Multiple animal species	NOAEL Not available	
Specific Target Orga Name	Route	Target Orga cardiac sensitization central nervo	n(s)	Causes dama	,		Multiple animal species Human	NOAEL Not available	
Specific Target Orga Name Isobutane	Route	Cardiac sensitization central nervor system depres	us ssion	Causes dama May cause d dizziness	rowsiness or	-	Multiple animal species	NOAEL Not available	
Specific Target Orga Name Isobutane	Route	Target Orga cardiac sensitization central nervo	us ssion	Causes dama	rowsiness or		Multiple animal species Human and	NOAEL Not available NOAEL Not available NOAEL Not	
Specific Target Orga Name Isobutane Isobutane Isobutane	Inhalation Inhalation Inhalation	Cardiac sensitization central nervor system depreservatory in	us ssion ritation	Causes dama May cause d dizziness All data are i	rowsiness or		Multiple animal species Human and animal	NOAEL Not available NOAEL Not available NOAEL Not available	
Specific Target Orga Name Isobutane Isobutane	Inhalation Inhalation	cardiac sensitization central nervor system depreservatory in central nervor central nervor	us ssion ritation	Causes dama May cause d dizziness All data are i	rowsiness or		Multiple animal species Human and animal	NOAEL Not available NOAEL Not available NOAEL Not available NOAEL Not	
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Isobutane Isobutane Isobutane Isobutane Isobutane Hydrotreated Light Petroleum Distillates Hydrotreated Light	Route Inhalation Inhalation Inhalation Inhalation	cardiac sensitization central nervor system depresentatory in central nervor system depresentations.	n(s) us sssion citation us sssion	Causes dama May cause d dizziness All data are i May cause d dizziness Some positiv	rowsiness or	ut the	Multiple animal species Human and animal	NOAEL Not available NOAEL Not available NOAEL Not available NOAEL Not available NOAEL Not	
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Specific Target Orga Name Isobutane Isobutane Isobutane Isobutane Hydrotreated Light Petroleum Distillates Hydrotreated Light Petroleum Distillates Specific Target Orga Name Isobutane Isobutane	Route Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Route	cardiac sensitization central nervor system depresental nervor system depresental nervor system depresental nervor system depresentatory in respiratory in Target Organia kidney and/organia cardiac system depresentation in the system dependent depresentation in the system dependent d	us ssion ritation us ssion ritation	Causes dama May cause d dizziness All data are i May cause d dizziness Some positiv data are not s classification Value Some positiv data are not s	rowsiness or hegative cowsiness or de data exist, brufficient for de data exist, brufficient for	ut the	Multiple animal species Human and animal Mouse	NOAEL Not available Test Result	Exposure Duration
Isobutane Isobutane Isobutane Isobutane Isobutane Isobutane Isobutane Hydrotreated Light Petroleum Distillates Hydrotreated Light Petroleum Distillates Hydrotreated Light Petroleum Distillates	Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation	cardiac sensitization central nervor system depresental nervor system depresental nervor system depresental nervor system depresentatory in respiratory in Target Organia kidney and/organia cardiac system depresentation in the system dependent depresentation in the system dependent d	us ssion ritation us ssion ritation	Causes dama May cause d dizziness All data are i May cause d dizziness Some positiv data are not s classification Value Some positiv data are not s	rowsiness or hegative rowsiness or de data exist, bufficient for de data exist, bufficient for	ut the	Multiple animal species Human and animal Mouse Species Rat	NOAEL Not available Test Result	Exposure Duration

3M(TM) SILICONE LUBRICANT PLUS; PN 08877 06/16/14	
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on this material and/or its components.	
SECTION 12: Ecological information	
Ecotoxicological information	
Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components. Chemical fate information	
Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.	
SECTION 13: Disposal considerations	
13.1. Disposal methods Dispose of contents/ container in accordance with the local/regional/national/international regulations.	
Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.	
SECTION 14: Transport Information	
For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.	
SECTION 15: Regulatory information	
15.1. US Federal Regulations Contact 3M for more information.	
311/312 Hazard Categories:	
Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No	
15.2. State Regulations Contact 3M for more information.	
15.3. Chemical Inventories The components of this product are in compliance with the chemical notification requirements of TSCA.	
Contact 3M for more information.	
15.4. International Regulations Contact 3M for more information.	
This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
SECTION 16: Other information	

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:

19-7433-6

Version Number:

4.00

Issue Date:

06/16/14

Supercedes Date:

07/05/12

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Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

3M(TM) Silicone Lubricant (Dry); PN 08897

MANUFACTURER:

DIVISION: Automotive Aftermarket

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 01/07/2009

Supercedes Date: 03/31/2005

Document Group: 19-7523-4

Product Use:

Intended Use:

Automotive

Specific Use:

Lubricant

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by W	Vt
ACETONE	67-64-1	20 4 40	可
PROPANE	74-98-6	20 40	Ó
HEPTANE	142-82-5	15 25	5
POLY(DIMETHYLSILOXANE)	63148-62-9	1 - 10	-

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Aerosol

Odor, Color, Grade: transparent, solvent odor

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure. May cause target organ effects.

3-2 POTENTIAL HEALTH EFFECTS

MATERIAL SAFETY DATA SHEET 3M(TM) Silicone Lubricant (Dry); PN 08897 01/07/2009 Eve Contact: loderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Skin Contact: Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Inhalation: Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal. Intentional concentration and inhalation may be harmful or fatal. May be absorbed following inhalation and cause target organ effects. Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting. May be absorbed following ingestion and cause target organ effects! arget Organ Effects: Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. **SECTION 4: FIRST AID MEASURES** 4.1 FIRST AID PROCEDURES The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed. Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse. Inhalation: Remove person to fresh air. Get immediate medical attention. Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious If Swallowed: person. Get immediate medical attention.

2 NOTE TO PHYSICIANS

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MATERIAL SAFETY DATA SHEET 3M(TM) Silicone Lubricant (Dry); PN 08897	01/07/2009	j	

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature

No Data Available

Flash Point

-50 F [Details: Propellant]

Flammable Limits - LEL

No Data Available

Flammable Limits - UEL

No Data Available

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

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SECTION 7: HANDLING AND STORAGE

1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not pierce or burn container, even after use. No smoking while handling this material. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Aerosol container contains flammable gas under pressure. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid contact with oxidizing agents.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container tightly closed. Do not store containers on their sides. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields. Indirect Vented Goggles.

க்.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Fluoroelastomer (Viton), Nitrile Rubber, Polyvinyl Alcohol (PVA), Polyethylene/Ethylene Vinyl Alcohol.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface pressure demand self-contained breathing apparatus. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

Ingredient	<u>Authority</u>	Type	<u>Limit</u>	Additional Information
ACETONE	ACGIH	TWA 1	500 ppm	Table A4
ACETONE	ACGIH	STEL	750 ppm	Table A4
ACETONE	OSHA	TWA, Vacated	750 ppm	
ACETONE	OSHA	TWA	1000 ppm	Table Z-1
ACETONE	OSHA	STEL, Vacated	1000 ppm	
MEPTANE	ACGIH	TWA	400 ppm	

MATERIAL SAFETY DATA SHEET 3M(TM) Silicone Lubri	icant (Dry); PN 08897 01/07/2009
HEPTANE ACGIH S	TO SECOND
neom o	TEL 500 ppm
	WA, Vacated 400 ppm
	WA 500 ppm Table Z-1
	TEL, Vacated 500 ppm WA 1000 ppm
	WA 1000 ppm Table Z-1
	EL] are enforced as the OSHA PEL in some states. Check with your loca
regulatory agency.	BE I ME CHICAGO AS THE OSTIA I EL III SOME STATES. CHECK WITH YOUR TOCK
SOURCE OF EXPOSURE LIMIT DATA:	<u> </u>
ACGIH: American Conference of Governmental Industria	l Hygienists
CMRG: Chemical Manufacturer Recommended Guideline	
OSHA: Occupational Safety and Health Administration	·
AIHA: American Industrial Hygiene Association Workpla	ce Environmental Exposure Level (WEEL)
	SO ENTROMINAL EXPOSUIC ECVO! (WEEL)
SECTION 9: PHYSICAL AND CHEM	ICAL PROPERTIES
Specific Physical Form:	Aerosol
Odor, Color, Grade:	transparent, solvent odor
General Physical Form:	Liquid
Autoignition temperature	No Data Available
Flash Point	
Flammable Limits - LEL	-50 °F [Details: Propellant]
	No Data Available
Flammable Limits - UEL	No Data Available
•	
Vapor Density	~-1100 [Def Cod. AID-1]
apor Density	>=1:.00 [Ref Std: AIR=1]
	i l
	_
Specific Gravity	0.65 [@ 70 °F] [Ref Std: WATER=1]
pН	Not Applicable
Melting point	Not Applicable
Solubility in Water	Moderate
Evaporation rate	No Data Available
Volatile Organic Compounds	60 % [Test Method: calculated SCAQMD rule 443.1] [Details:
	excluding exempt compounds]
Volatile Organic Compounds	510.00 [Test Method: calculated SCAQMD rule 443.1] [Details:
- •	excluding exempt compounds]
Percent volatile	95.00 %
VOC Less H2O & Exempt Solvents	818.07 g/l [Test Method: calculated SCAOMD rule 443.1]
Viscosity	No Data Available
-	
SECTION 10: STABILITY AND REAC	TIVITY
G. I W. G. II	
Stability: Stable.	
Materials and Conditions to Avoid: Heat	
materials and Conditions to Avoid; Meat	
Hazardous Polymerization: Hazardous nolymerization	not coops
Hazardous Polymerization: Hazardous polymerization will	not occur.

	i		1
MATERIAL SAFETY DATA SHEET 3M(TM) Silicone Lubricant (De	ry); PN 08897	01/07/2009	
Hazardous Decomposition or By-Prod	ļ ļucts		
<u>Substance</u> Conditi	ion		
	Combustion Combustion		
2 u.mg			
SECTION 11: TOXICOLOGICAL INFORM	ATION		
Please contact the address listed on the first page of the MSDS for	or Toxicologic	al Information on this mat	gripl and/or its
components.	Toxicologica	ar miormation on this mat	enar and/or its
SECTION 12: ECOLOGICAL INFORMAT	ION		
ECOTOXICOLOGICAL INFORMATION	ļ. 1		
Not determined.			
CHEMICAL FATE INFORMATION			
Not determined.			
SECTION 13: DISPOSAL CONSIDERATION	NS		
aste Disposal Method: Incinerate in a permitted hazardous waste	incinerator. A	s a disposal alternative, d	
in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. Dispose of empty			
y		more in a summing function.	
EPA Hazardous Waste Number (RCRA): D001 (Ignitable)			
Since regulations vary, consult applicable regulations or auth	iorities before	disposal.	<u> </u>
SECTION 14:TRANSPORT INFORMATIO	N		. ,.
ID Number(s):			
LB-K100-0591-6, 60-4100-0958-7			
	i		
Please contact the emergency numbers listed on the first page	e of the MSDS	for Transportation Info	rmation for this
material.	1	<u> </u>	
SECTION 15: REGULATORY INFORMAT	ION		al.
US FEDERAL REGULATIONS	<u> </u>		
Contact 3M for more information.			
* a.			
<u> </u>	ı		
	1	1	Page 6 of 8
	i I		

	1	
MATERIAL SAFETY DATA SHEET 3M(TM) Silicone Lubricant (1	Dry); PN 08897 01/07/2009	
- 311/312 Hazard Categories: Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - N	Jo Immediate Hazard - Yes Delayed	 Hazard - Yes
This material and its all the second		
This material contains a chemical which requires export notifications	ation under TSCA Section 12[b]:	
Ingredient (Category if applicable)C.A.S. NoHEPTANE142-82-5	Regulation Toxic Substances Control Act (TSCA) 4 T Rule Chemicals	<u>Status</u> est Applicable
STATE REGULATIONS Contact 3M for more information.		
CHEMICAL INVENTORIES	 	
The components of this product are in compliance with the chemica	l notification requirements of TSCA.	
Contact 3M for more information.	 	
	· · I	
STERNATIONAL REGULATIONS Sontact 3M for more information.		
	!	
This MSDS has been prepared to meet the U.S. OSHA Haz	ard Communication Standard, 29 CF	R 1910.1200.
CT CTT CTT CTT CTT CTT CTT CTT CTT CTT		
SECTION 16: OTHER INFORMATION		1 1 1
NFPA Hazard Classification Health: 2 Flammability: 4 Reactivity: 0 Special Hazard Aerosol Storage Code: 3	s: None	
National Fire Protection Association (NFPA) hazard ratings are designed for presented by short-term, acute exposure to a material under conditions of firm inherent physical and toxic properties of the material but also include the tox be generated in significant quantities.	e, spill, or similar emergencies. Hazard ratin	gs are primarily based on the
Revision Changes: Section 1: Product use information was modified. Copyright was modified. Section 9: Property description for optional properties was modified.		
! !		1
		Page 7 of 8

Section 9: Specific gravity information was modified.

Section 1: Initial issue message was modified.

ection 14: ID Number Heading Template 1 was added.

dection 14: ID Number(s) Template 1 was added.

Section 2: Ingredient table was added.

Section 15: TSCA section 12[b] text was added.

Section 8: Exposure guidelines ingredient information was added.

Section 8: Exposure guidelines legend was added.

Section 15: TSCA section 12[b] information was added.

Section 8: Exposure guidelines data source legend was added.

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Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

3M MARINE MILDEW BLOCK, PN 09065

MANUFACTURER:

3M

DIVISION:

Marine & Specialty Vehicle

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 01/27/2009

Supercedes Date: 08/14/2008

Document Group: 22-8254-9

Product Use:

Specific Use:

Protection against mildew

Intended Use:

Marine

SECTION 2: INGREDIENTS

<u>Ingredient</u>	C.A.S. No.	% by Wt
WATER	7732-18-5	60 - 1100
STYRENE/ACRYLIC COPOLYMER	Trade Secret	3 - 7
TRI(BUTOXYETHYL) PHOSPHATE	78-51-3	0.5 1.5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Emulsion Odor, Color, Grade: Opaque white. General Physical Form: Liquid

Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLOCK, PN 09065 01/27/2009 kin Contact: Ifild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching. Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. **SECTION 4: FIRST AID MEASURES** 4.1 FIRST AID PROCEDURES The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed. Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. Wash affected area with soap and water. If signs/symptoms develop, get medical attention Skin Contact: Athalation: Remove person to fresh air. If signs/symptoms develop, get medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never If Swallowed: give anything by mouth to an unconscious person. Get medical attention. **SECTION 5: FIRE FIGHTING MEASURES** 5.1 FLAMMABLE PROPERTIES Autoignition temperature Not Applicable Flash Point Noi Applicable Flammable Limits - LEL Not Applicable Flammable Limits - UEL. Not Applicable 5.2 EXTINGUISHING MEDIA Material will not burn. 5.3 PROTECTION OF FIRE FIGHTERS Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLOCK, PN 09065 01/27/2009	<u> </u>
UITER 2005	
NA., C., CULARIY VIIV. AND DELACTIVE VIII.	
Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and therm information.	al decomposition
	<u> </u>
SECTION 6: ACCIDENTAL RELEASE MEASURES	
The second of th	
Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-	577) for more
information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard	area. The spill should be
cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. For larger spills, cover dr prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cov	ains and build dikes to
vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appe	ars dry. Collect as much
of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue c	ontaining solution Place
in a closed container approved for transportation by appropriate authorities. Dispose of collected material as	soon as possible.
In the event of a release of this material, the user should determine if the release qualifies as report	able according to
local, state, and federal regulations.	able according to
SECTION 7: HANDLING AND STORAGE	
7.1 HANDLING	
Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with breathing of vapors, mists or spray. Avoid prolonged or repeated skin contact. Avoid eye contact with vapor	soap and water. Avoid
out of the reach of children.	s, mists, or spray. Keep
7.2 STORAGE	
eep container in well-ventilated area.	
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 ENGINEERING CONTROLS	
Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open contain	
ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Lin	nits and/or control mist
vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.	
O C PROPOSITION TO COMPANY TO COM	
8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)	
8.2.1 Eye/Face Protection	
Avoid eye contact with vapors, mists, or spray.	a
The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggle	
8.2.2 Skin Protection	
Avoid prolonged or repeated skin contact.	
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure as	sessment. Consult with
your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber.	
8.2.3 Respiratory Protection	
Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and	in
SHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95	narticulate prefilters
- 1 J B	il

MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLOCK, PN 09065 01/27/2009

Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

2.4 Prevention of Swallowing

o not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form: Odor, Color, Grade:

General Physical Form: Autoignition temperature

Flash Point

Flammable Limits - LEL Flammable Limits - UEL

Boiling point Density Vapor Density

Vapor Pressure

Specific Gravity

pН

Melting point

Solubility in Water **Evaporation rate**

Hazardous Air Pollutants

Volatile Organic Compounds

Volatile Organic Compounds

Percent volatile

VOC Less H2O & Exempt Solvents

Viscosity

Emulsion Opaque white,

Liquid

Not Applicable Not Applicable Not Applicable Not Applicable

Approximately 212 °F 8.7 - 8.8 lb/gal

No Data Available

20 mmHg [@ 70 °F]

1.05 [*Ref Std*: WATER=1]

8.5

No Data Available

Complete

No Data Available 1.5 % weight

11.25 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:

excluding exempt compounds)

1.07 % [Test Method: calculated SCAQMD rule 443.1] [Details:

excluding exempt compounds]

Approximately 90 %

182:32 g/l [Test Method: calculated SCAQMD rule 443.1]

No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

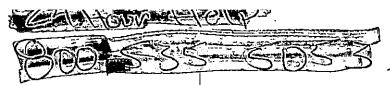
Condition

	1
MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLOCK, PN 09065 01/27/2009	
Carbon monoxide During Combustion Carbon dioxide During Combustion	
SECTION 11: TOXICOLOGICAL INFORMATION	
Please contact the address listed on the first page of the MSDS for Toxicological Information on this m components.	aterial and/or its
SECTION 12: ECOLOGICAL INFORMATION	
ECOTOXICOLOGICAL INFORMATION Not determined.	
CHEMICAL FATE INFORMATION	
Not determined. SECTION 13: DISPOSAL CONSIDERATIONS	
Waste Disposal Method: Incinerate in an industrial or commercial facility in the presence of a combustible alternative, dispose of waste product in a facility permitted to accept chemical waste.	material. As a disposal
"A Hazardous Waste Number (RCRA): Not regulated	
Since regulations vary, consult applicable regulations or authorities before disposal.	
SECTION 14:TRANSPORT INFORMATION	2
ID Number(s): LB-T100-0514-0, 60-4550-3530-7, 60-9801-0733-2	
Please contact the emergency numbers listed on the first page of the MSDS for Transportation In material.	formation for this
SECTION 15: REGULATORY INFORMATION	1
US FEDERAL REGULATIONS Contact 3M for more information.	
311/312 Hazard Categories: Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed F	lazard - No
	Page 5 of 7

		1	
	MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLOC	CK, PN 09065 01/27/2009	1=
j vila	STATE REGULATIONS Jontact 3M for more information.	31,11,03005 01,21,2005	
	CHEMICAL INVENTORIES The components of this product are in compliance with the chemical Contact 3M for more information.	notification requirements of TSCA.	
	INTERNATIONAL REGULATIONS Contact 3M for more information.		
	This MSDS has been prepared to meet the U.S. OSHA Haza SECTION 16: OTHER INFORMATION	rd Communication Standard, 29 CFR	1910.1200.
at I I	FPA Hazard Classification Health: 1 Flammability: 0 Reactivity: 0 Special Hazards	: None	
	National Fire Protection Association (NFPA) hazard ratings are designed for presented by short-term, acute exposure to a material under conditions of fire inherent physical and toxic properties of the material but also include the tox be generated in significant quantities.	e, spill, or similar emergencies. Hazard ratings	are primarily based on the
	HMIS Hazard Classification Health: 1 Flammability: 0 Reactivity: 0 Protection: X - S	ee PPE section.	
	Hazardous Material Identification System (HMIS(r)) hazard ratings are designatings are based on the inherent properties of the material under expected consituations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) Coatings Association (NPCA).	inditions of normal use and are not intended for	ruse in emergency
	Revision Changes: Copyright was modified. Section 7: Handling information was modified. Section 8: Engineering controls information was modified. Section 8: Eye/face protection phrase was modified. Section 8: Skin protection phrase was modified. Section 8: Respiratory protection information was modified. Section 9: Property description for optional properties was modified. Section 2: Ingredient table was modified. Cection 15: EPCRA 313 information was deleted.		
			Page 6 of 7

MATERIAL SAFETY DATA SHEET 3M MARINE MILDEW BLO	OCK, PN 09065 01/27/2009	
	01/2/12/09	
Section 15: EPCRA 313 text was deleted.	,	
in		
SCLAIMER: The information in this Material Safety Data Sheet MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCL. OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR TRADE. User is responsible for determining whether the 3M produce or application. Given the variety of factors that can affect the u within the user's knowledge and control, it is essential that the user particular purpose and suitable for user's method of use or application.	PURPOSE OR COURSE OF PERFORM set is fit for a particular purpose and suitage and application of a 3M product, some evaluate the 3M product to determine when	IMPLIED WARRANTY ANCE OR USAGE OF ble for user's method of
3M provides information in electronic form as a service to its custor have resulted in errors, omissions or alterations in this information, In addition, information obtained from a database may not be as cur	iM makes no representations as to its oor	nniotonogo on agove
3M MSDSs are available at www.3M.com		
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		Page 7 of 7
}		<u> </u>
	. !!	





GHS Safety Data Sheet

Walex Products Company Inc

COMMANDO BLACK TANK CLEANER

PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

COMMANDO BLACK TANK CLEANER

SDS Number:

WAL-116

Revision Date:

7/2/2024

Version:

- 1/2

Chemical Formula:

WAL-116

Product Use:

Treats Holding Tank Systems

Supplier Details:

Walex Products Company Inc

P.O. Box 3785

Wilmington, NC 28406

Phone:

910-371-2242

Fax: Email: 910-371-2094 info@walex.com

Web:

www.walex.com

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)

Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

HAZARDS IDENTIFICATION

াassification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2

Health, Serious Eye Damage/Eye Irritation, 2 A

Health, Respiratory or skin sensitization, 1 Respiratory

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled

GHS Precautionary Statements:

P102 - Keep out of reach of children.

P285 - In case of inadequate ventilation wear respiratory protection.

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P305 + P351 + P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P302 + P352 - IF ON SKIN: Wash with soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS Inhalation: Dust of this product may cause irriatation of the nose, throat, and respiratory tract. May cause allergic reaction in some individuals. Skin Contact: Contents of packet causes irritation to the skin. Eve Contact: Contents of packet will cause serious eye irritation. Ingestion: Ingestion can cause gastrointestinal irritation, nausea vomiting and diarrhea. May cause irritation of the throat, stomach, and gastrointestinal tract. This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with provisions of the OSHA (Provisions 1910.1200 of title 29). COMPOSITION/INFORMATION OF INGREDIENTS Chemical Ingredients CAS# Chemical Name 0 <10% Surfactant blend 0 <2% Fragrance Blend</p> n <18% Enzyme 7757-82-6 <65% Sodium Sulfate Other components consisting of 60% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) ingredient (s) are given on this SDS. • 1 FIRST AID MEASURES May casue irritation, sensitisation. May cause allergic reaction in some individuals. Consult a doctor Inhalation: if victim feels unwell. Skin Contact: May cause dry skin. Remove conaminated clothing immediately. Wash off skin with plenty of water. Irritant. May cause redness and pain. Wash out with water for at least 15 minutes. Remove contact Eye Contact: lenses. Consult a doctor if irritation persists. gestion: May cause a feeling of sickness, vomiting and diarrhea. Do not induce vomiting. Rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor immediately. 4: FIRE FIGHTING MEASURES Flash Point: >150 C Extinguishing media: Carbondioxide (CO2). Foam. Dry chemical. Water fog. Special protective equipment for fire-fighters: Use adequate respiratory equipment in case of insufficient ventilation. ۲., ACCIDENTAL RELEASE MEASURES Personal precautions: Clean up spills immediately. Avoid contact with spilled or released material. Environmental precautions: Avoid release of product into sewers, surface water and/or ground water. Methods for cleaning up: Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water. Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. HANDLING AND STORAGE **Handling Precautions:** Handling: Handle in accordance with good occupational hygiene and safety practices in

SDS Number: WAL-116 Page: 2 / 4 Revision Date: 7/2/2024

Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly after

well-ventilated areas.

handling.

Storage: Keep in a cool, dry and well ventilated place (>35 C). Keep away from oxidation agents.

Recommended packaging: Keep in orininal container.

Use: use only as directed. Do not mix with other chemicals.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use only in well ventilated areas. Comply with standard precautionary measures for

working with chemicals.

Personal Protective Equipment: Skin: not normally needed. Wear impervious gloves for prolonged contact, or if

exposed to packet contents.

Respiratory: Not normally needed. If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided. Eyes: Not normally needed. Wear safety glasses if exposure to packet contents is likely.

Je.	PHYSICAL AND CHEMICAL PR	OPERTIES	
Appearance:	Solid		
Physical State:	Powder		
Odor:	Fresh		
Odor Threshold:	No data		
Solubility:	85%		
Spec Grav./Density:	.56 g/ml		
Softening Point:	NA		
Viscosity:	No data		
Percent Volatile:	2%		
Boiling Point:	NA		
Freezing/Melting Pt.:	No d ata		
lash Point:	No data		
artition Coefficient:	No data		
Vapor Pressure:	No data		
Vapor Density:	No data		
pH:	5 - 6		
VOC:	2%		
Evap. Rate:	No data		
Auto-Ignition Temp:	No data		
Decomp Temp:	No data		
UFL/LFL:	No data		
	STABILITY AND REACTIVITY		
Chemical Stability:	Stable under normal condition	 s.	
Conditions to Avoid:	Protect from moisture.		

Conditions to Avoid:

Protect from moisture.

Materials to Avoid:

Keep away from strong ozidzing agents.

Hazardous Decomposition:

Unknown

Hazardous Polymerization:

Not expected to occur

TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD 50): (LD50:5405 mg/kg)

Inhalation (LC 50): Not determined

3kin irritation: (LD50:6451 mg/kg)

Eye irritation: Causes serious eye irritation

Considering Man	/ cause an allergic skin rea	action	1	
•	_			
Sensitation: May	cause allergy or Asthma	symptoms		
``\ 				 1
	ECOLOGICAL	INFORMATION		
Ecotoxicity: Not on Degradability: Not on Product is considered.	cal research has been carriclassified as dangerous for to specific information knowr dered biodegradable accord potential: No specific inform	he aquatic environment i. ing to OECD guidlines.		
101	DISPOSAL CO	NSIDERATIONS		
Disposal should b	e in accordance with applica	ble regional, national, and led or technical informati	d local laws and regulations. The best praction is required, call Walex Products compar	ctice is to contact a local by at 1-800-338-3155
\$ 0.0	TRANSPORT	NFORMATION		
Land transport	ADR/RID and GGVS/GG	VE: Not classified		
·	MDG/GGVSee: Not class			
-	CAO-TI and IATA-DGR: I			
All Hallsport		tot oldoomod		
) [[]	PEGUI ATOP	Y INFORMATION		_
Component (CA	AS#) [%] - CODES	INFORMATION		
Surfactant blen				
Fragrance Blen	d (0) [<2%]			
Enzyme (0) [<1	5%]			
Sodium Sulfate	(7757-82-6) [n/a%] TSCA			
This product doe	s not contain chemicals know	n to the State of Californ	ia to cause cancer, birth defects, or other r	eproductive harm.
Regulatory	CODE Descriptions			
TSCA = Toxi	c Substances Contro	l Act		
2.	OTHER INFO		<u> </u>]
h _e ,				
any other warra	e has been taken in the pre nty, expressed or implied, v ny direct, incidental or conse	vith respect to this inforr	tion, but the manufacturer makes no war nation. The manufacturer makes no repr Iting from its use.	ranty of merchantability or esentations and assumes
<u> </u>		Revision Dat	1	
1		Print Date: ()/102/2024 	
SDS Number: WAL-	-116	Page:	4/4	Revision Date: 7/2/2024

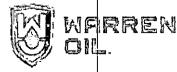


Coastal LubriGold Full Synthetic CVT Fluid is a multi-vehicle continuously variable transmission fluid suitable for use in most belt or chain CVT applications. Formulated with synthetic base stocks to ensure long life and compounded with an additive package to ensure exceptional metal-to-metal frictional properties and provide outstanding anti-shudder durability. The extremely low pour point will provide protection during cold weather start-up.

Coastal LubriGold Full Synthetic CVT Fluid provides a well-balanced, high level of both torque capacity and anti-shudder performance to provide enhanced driver comfort and long transmission life. Not recommended for any Honda applications with a starting clutch.

Benefits

- Full synthetic long-life formula
- Outstanding metal-to-metal friction performance
- Excellent wear resistance
- Excellent low temperature fluidity
- Outstanding anti-shudder durability



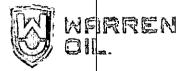
Warren Oil Company, LLC

Dunn, NC 28334: Benton, AL 36758: San Antonio, TX 78210: Marion, IL 62959: Johnstown, PA 15909: West Memphis, AR 72301



Recommended for the following CVT applications:

Audi Multitronic
BMW Mini Cooper EZL 799A/ 83 22 0 429 154
Chery CVT
Daihatsu AMMIX CVTF DFE
Daihatsu AMMIX CVT Fluid DC
Daihatsu AMMIX CVT Fluid DFC
Daihatsu Fluid TC
Dodge/Jeep/Chrysler NS-2
Dodge/Chrysler/Jeep/Mopar CVT+4
Ford Escape Hybrid with e-CVT
Fiat Tutela Car CVT N.G
Fujijyuuko i-CVTF FG
GM/Saturn DEX-CVT, GM 1940713 and 1940714
Honda HMMF (without starting clutch)
Honda HCF2
Honda Z-1 (CVT without starting clutch)
Honda CVT (Without starting clutch)
Honda e:HEV
Hyundai/Kia CVT-1
Hyundai/Kia SP III (CVT model)
Idemitsu CVTF-EX1
Jatco CVT 8 Hybrid
Lexus Fluid TC, Fluid FE
Mazda JWS 3320, Mazda SKYACTIVE-HYBRID
MB 236.20
MG Rover EM-CVT
Mini Cooper EZL 799/EZL 799A/ZF CVT V1
Mitsubishi CVTF-J1 (MMC Diaqueen CVT Fluid J1)
Mitsubishi CVTF-J4 and J4+ (MMC Diaqueen CVT Fluid J4 and J4+
Mitsubishi CVTF ECO J4
Mitsubishi (Diaqueen) SP-III (CVT model only)
Nissan NS-1, NS-2, NS-2V, NS-3 N-CVT, Altima Hybrid
Punch CVTF-EX1
Renault Elf Matic CVT
Renault CVT CK/SK/FK



Warren Oil Company, LLC

Dunn, NC 28334: Benton, AL 36758: San Antonio, TX 78210: Marion, IL 62959: Johnstown, PA 15909: West Memphis, AR 72301



LubriGold Full Synthetic CVT Fluid

Shell Green 1V	
Subaru iCVT, iCVT FG, ECVT	
Subaru Lineartronic Chain CVT and CVT II Fluid	
Subaru K0425Y0710, K0425Y0711	
Subaru Lineartronic Chain CVT 3 Fluid	
Subaru Lineartronic High Torque (HT) CVT Fluid K0421Y0700, CVTF-LV SOA748V0300	, CV-30,
Subaru, NS-2, CVT TC, CVTF 3320, CVTF 4401	
Subaru CVT Green 1 & 2, Green 1V	
Toyota CVTF TC, CVTF FE	
Toyota THSII/ Toyota Prius	
Toyota THS 4th Gen./Toyota Noah and Voxy	
Volvo CVT 4959	
VW/Audi TL 521 16 (G 052 516)	
VW/Audi TL 521 80 (G 052 180 A2)	
Zotye CVTs	

Typical Characteristics:

API Gravity @ 60°F	35.1
Sp. Gr. @ 60°F	0.849
Flash, COC, °F	428
Color	Amber
Pour Pt., °F	-60
Viscosity,	
cSt @ 40°C	35.9
cSt @ 100°C	7.3
Viscosity Index	174
Brookfield Vis @ -40°C, cP	13,780
Part Number	
6/I QT	402292



Warren Oil Company, LLC

Dunn, NC 28334: Benton, AL 36758: San Antonio, TX 78210: Marion, IL 62959: Johnstown, PA 15909: West Memphis, AR 72301



Issue Date: 08-Aug-2014	Revision Date	: 28-May-2015	v	ersion 1
Be	1. IDEN	TIFICATION		1
Product Identifier Product Name	NAPA Power Steering	Fluid	J.	
Other means of identification SDS #	NAP-001			
Synonyms:	N/A			
Recommended use of the chemical Recommended Use	and restrictions on us Power Steering Fluid.	<u>e</u>		
Details of the supplier of the safety Supplier Address Warren Oil Company 915 E. Jefferson Ave. West Memphis, AR 72301	data sheet			,
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	1-870-400-3020 CHEMTREC 1-800-424	1-9300 (North America); 1-703	3-537-3887 (International)
	2. HAZARDS	IDENTIFICATION	<u></u>	
Appearance Amber liquid		nte Liquid at room perature	Odd	or Petroleum
Classification This chemical does not meet the haza 1910.1200). However, this Safety Dat this product. This SDS should be reta	a Sheet (SDS) contains	valuable information critical to	the safe har	
3. Co	OMPOSITION/INFO	RMATION ON INGREDI	ENTS	
Chemical Name		CAS No		Weight-%
Petroleum distillates, hydrotreated he	eavy paraffinic	64742-54-7	<u> </u>	90-100
**If Chemical Name/CAS No is "propr of composition has been withheld as		is listed as a range, the specif	ic chemical i	dentity and/or percentage
	4. FIRST-A	ID MEASURES		
First Aid Measures				

Eve Contact

IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open.

Seek medical attention.

Skin Contact

No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. WARNING: Oil injected into the skin from high pressure leaking hydraulic systems can cause severe damage. Most damage occurs during the first few hours. Seek medical attention immediately. Surgical removal of oil may be necessary.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If

breathing is difficult give oxygen. Get medical attention.

Inaestion

If swallowed, DO NOT induce vomiting because of danger of aspirating liquid into lungs.

Seek medical attention.

Most important symptoms and effects

Symptoms

This product is irritating to the eyes. This product may cause irritation to the skin. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. If this product is heated over 70 C (155 Fj) in the presence of water, hydrogen sulfide may be released. Hydrogen sulfide is irritating to the eyes and respiratory system. Continued overexposure may cause respiratory collapse, coma and death without necessarily any warning odor being sensed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Direct water spray or foam may cause frothing and spattering.

Hazardous Combustion Products Upon decomposition this product may yield oxides of boron, calcium, magnesium, phosphorous, zinc, sulfur including hydrogen sulfide and nitrogen as well as carbon monoxide, carbon dioxide and/or other low molecular weight hydrocarbons.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water to cool fire-exposed containers and to protect personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Surfaces may become slipperly after spillage. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses.

Eye/Face Protection Wear safety glasses. Wear chemical goggles or face shield if splash or mist occurs.

Skin and Body Protection Use impervious gloves for prolonged contact. Wear oil-impervious garments if contact is

unavoidable.

Respiratory Protection If mist is generated (heating, spraying) and engineering controls are not sufficient, wear

approved organic vapor respirator suitable for oil mist.

General Hygiene Considerations Use good hygiene when handling petroleum product. Launder contaminated clothing before

reuse. Excessive misting may cause slippery floors - wear appropriate footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Liquid at room temperature

Appearance Color

Amber liquid Amber

Odor **Odor Threshold** Petroleum Not determined

Property

На

Values Not available

Remarks • Method

Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point

Not applicable Not available 204 °C / 400 °F Not determined

Negligible

Cleveland Open Cup

Evaporation Rate Flammability (Solid, Gas) **Upper Flammability Limits**

Liquid-Not applicable Not available Lower Flammability Limit Not available Vapor Pressure Not available Vapor Density Not available Specific Gravity 0.86

at 15.6°C (60°F)

Water Solubility Solubility in other solvents **Partition Coefficient** Auto-ignition Temperature

Not determined Not determined Not available **Decomposition Temperature** Not determined Kinematic Viscosity Not available Dynamic Viscosity Not available **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

Avoid formation of mists.

Incompatible Materials

This product may react with strong oxidizing agents.

Hazardous Decomposition Products

Decomposition of this product may yield oxides of boron, calcium, magnesium, nitrogen, phosphorus, sulfur including hydrogen sulfide and zinc as well as carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL.	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates,	Present	X		Present	1	Present	X	Present	X	X
hydrotreated heavy paraffinic								l it l		

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPA Health Hazards
0
HMIS Health Hazards

Flammability

1
Flammability

Instability 0 Physical Hazards Special Hazards
Not determined
Personal Protection
Not determined

Issue Date:

08-Aug-2014 28-May-2015

Revision Date: Revision Note:

evision Note: New format

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: HWH SPECIALTY HYD OIL 12/10T

Product Code:

HW31PSPL

Emergency Phone:

(800) 424-9300 (800) 222-1222

(202) 483-7616

(CHEMTREC)

Revision Date: 2010-12-01 11:25:27

Poison Control

Center: Company:

Warren Distribution, Inc.

727 S. 13th St. Omaha, NE 68102

Information Phone:

(800) 825-1235

(402) 341-9397

Revision Number:

II. HAZARDS IDENTIFICATION

Routes of Entry:

Inhalation, Ingestion, Skin contact, Eye contact

Chemical Interactions: None Known

Medical Conditions

No data found.

Aggravated by Exposure:

Acute Health Effects:

Inhalation Irritation:

Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and

headache. This product has low volatility. Aerosols or vapors formed at high

temperatures may be irritating.

Skin Contact:

Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause

permanent damage.

Skin Absorption:

Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Eye Contact:

Can cause moderate irritation, tearing and reddening, but not likely to permanently

injure eye tissue.

Ingestion Irritation:

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, mausea, vomiting and diarrhea. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that

may cause injury.

Chronic Health

Effects:

Carcinogenicity:

Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive

Toxicity:

No data available to indicate product or any components present at greater than 0.1%

may cause birth defects. Not likely to be a human reproductive hazard.

Mutagenicity:

No data available to indicate product or any components present at greater than 0.1% is

mutagenic or genotoxic.

Inhalation:

Upon prolonged and/or repeated exposure to concentrations above permissible exposure

HWH SPECIALTY HYD OIL 12/1QT

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limits, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea

and headache.

Skin Contact:

Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and

dermatitis. Not likely to cause permanent damage.

Skin Absorption:

Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May

cause gastrointestinal discomfort.

Ingestion:

Lubricating oils are generally no more than slightly toxic if swallowed.

HMIS Ratings:

Health: 1
Fire: 1
Reactivity: 0

NFPA Ratings:

Health: 1
Fire: 1
Reactivity: 0

PPE: B

KEY:

0 - Least

1 - Slight

2 - Moderate

3 - High

4 – Extreme

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS#	OSHA Exposure Limits
Petroleum distillates, hydrotreated heavy paraffinic	90 - 99	64742-54-7	No PEL established
Hydrotreated middle distillate	1 - 5	64742-46-7	No PEL established

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

IV. FIRST-AID MEASURES

Inhalation:

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. If overcome by vapor from hot product, immediately remove victim to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. If overexposed to oil mist, remove from further exposure.

Eyes:

Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Flush eye with water for 20 minutes. Get medical attention.

Skin Contact:

Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists.

Ingestion:

Do not induce vomiting and seek medical attention immediately. Provide medical care

provider with this MSDS.

Notes to Doctor:

Aspiration during swallowing or vomiting may severely damage the lungs

V. FIRE FIGHTING MEASURES

Flammability
Summary:

Combustible at elevated temperatures

Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water



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or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

Fire and/or Explosion Hazards:

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. If heated above its flashpoint in the presence of air, product can

support combustion.

Fire Fighting Methods and Protection:

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous

Carbon dioxide, Carbon monoxide

Combustion Products:

193 °C (379 °F)

Autoignition

Flash Point:

No data

Temperature:

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

VII. HANDLING AND STORAGE

Handling Precautions:

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues vapors. Use proper bonding and grounding during bulk product transfer. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Wash thoroughly after handling. Do not get in eyes, on skin and clothing "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse.

Storage Conditions:

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Do not expose to extreme temperatures or flames. Store in a cool dry place. Store in a tightly closed container. Keep away from heat, sparks and flame.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator



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comfort. No special ventilation requirements

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a

respirator if general room ventilation is not available or sufficient to eliminate symptoms. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a

respirator. Wear a NIOSH approved respirator if any exposure is possible.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory

protection.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product.

Do not wear contact lenses. Wear goggles and a Face shield.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and

chemical safety goggles plus a face shield.

Gloves:

Neoprene gloves are recommended.

Control Parameters:

Chemical Name Petroleum distillates, hydrotreated heavy ACGIH TLV-TWA

ACGIH STEL

IDLH

OSHA STEL

paraffinic

No TLV

No STL

No IDLH

No STEL

Hydrotreated middle distillate

No TLV

No STL

No IDLH

No STEL

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Color:

Liquid Amber

Odor:

No data

Viscosity: Solubility in Water: 7.38 cSt @100°C

Evaporation Rate:

Negligible; 0-1% No data

Vapor Pressure:

No data

Boiling Point (°C):

No data

Specific Gravity:

0.86

Density:

7.19

Flash Point (°C):

193

Flash Point Method:

COC

Upper Flammability

Not determined

Limit, % in air:

Lower Flammability

Not determined

Limit, % in air:

X. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

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Conditions to Avoid:

Temperatures above the high flash point of this combustible material in combination

with sparks, open flames, or other sources of ignition. Contamination.

Materials to Avoid:

Strong oxidizing agents

Hazardous Decomp.

Products:

Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus,

calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present.

Hazardons Polymerization: Will not occur.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion:

Lubricating oils are generally no more than slightly toxic if swallowed.

Inhalation:

Toxic! Can cause systemic damage (see "Target Organs"). Respiratory failure is

possible at high doses.

Absorption:

Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Eyes (Draize score):

No data.

Skin (Draize score):

No data.

Sensitization:

No data.

Component Toxicology Data (NIOSH):

Chemical Name

CAS Number

LD50/LC50

Petroleum distillates,

64742-54-7

Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >2000 mg/kg;

hydrotreated heavy paraffinic

Dermal LD50 Rabbit >2000 mg/kg

Petroleum distillates, hydrotreated middle

Inhalation LC50 Rat 4.6 mg/L 4 h; Oral LD50 Rat 7400 mg/kg; Dermal

64742-46-7

LD50 Rabbit >2000 mg/kg

XII. ECOLOGICAL INFORMATION

Overview:

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Persistence:

No data.

Bioconcentration:

Bioconcentration is not expected to occur.

Degradability:

No data.

Toxicity to Aquatic Invertebrates: Petroleum distillates, hydrotreated heavy

CAS Number 64742-54-7

48 Hr EC50 Daphnia magna: >1000 mg/L

paraffinic

Toluene

108-88-3

Toluene

108-88-3

48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L

[Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: >433

mg/L; 72 Hr EC50 Pseudokirchneriella

HWH SPECIALTY HYD OIL 12/1QT

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subcapitata: 12.5 mg/L [static]

Toxicity to Fish:

Petroleum distillates, hydrotreated heavy

Petroleum distillates, hydrotreated

middle

CAS Number

64742-54-7

64742-46-7

Results

96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L

96 Hr LC50 Pimephales promelas: 35 mg/L [flowthrough]; 96 Hr LC50 Pimephales promelas:

>10000 mg/L [static]

XIII. DISPOSAL CONSIDERATIONS

Disposal of Packaging:

Recycle containers whenever possible.

Disposal Methods:

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used

XIV. TRANSPORTATION INFORMATION

DOT & IMDG: NOT RESTRICTED

XV. REGULATORY INFORMATION

TSCA Status:

All ingredients in this product appear on the TSCA inventory.

NAFTA Tariff Code:

3811.90.0000

State Restrictions:

ND

WHMIS:

This is not a WHMIS controlled product.

Chemical Name

None Listed.

CAS Number

Regulation CERCLA RO % Range

108-88-3

SARA 313

0.001-0.01

None Listed.

Toluene

SARA 302-Extremely

Hazardous Substances

None Listed.

TSCA 12b export notification

None Listed.

CA Prop 65 - Cancer

Toluene

108-88-3

CA Prop 65 - Dev. Toxicity

0.001 - 0.01

Toluene

108-88-3

CA Prop 65 - Reprod -fem

0.001-0.01

None Listed

Canadian WHMIS List

None Listed.

Massachusetts RTK List

None Listed.

New Jersey RTK List

None Listed.

Pennsylvania RTK List

HWH SPECIALTY HYD OIL 12/1QT

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None Listed.

None Listed.

Petroleum distillates, hydrotreated

heavy paraffinic

Petroleum distillates, hydrotreated

middle

Toluene

64742-54-7

64742-46-7

108-88-3

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Minnesota Hazardous

Substance List

Rhode Island Hazardous

Substance List

Canadian Domestic Substance

90 | 99

List

Canadian Domestic Substance

1 - 5

List

Canadian Domestic Substance

0.001-0.01

List

Consumer Product Safety Improvement Act of 2008 General Conformity Certification:

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

XVI. ADDITIONAL INFORMATION

Superseded by:

2010-09-16 09:51:50 2010-12-01 11:25:27

Revision Date: Created by:

HAZEMS

Disclaimer:

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have

reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.









1 - Identification

Product Name: WD-40 Multi-Use Product Aerosol

Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From

Corrosion

Restrictions on Use: None identified

SDS Date Of Preparation: March 5, 2019

Manufacturer: WD-40 Company

Address: 9715 Businesspark Avenue

San Diego, California, USA

92131

Telephone:

Emergency: 1-888-324-7596 Information: 1-888-324-7596

Chemical Spills: 1-800-424-9300 (Chemtrec)

1-703-527-3887 (International Calls)

2 - Hazards Identification

Hazcom 2012/GHS Classification:

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:



DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Prevention

Keep away from heat, sparks, open flames, hot surfaces, - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing vapors or mists.

Use only outdoors or in a well-ventilated area.

Response

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Storage

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	1	om 2012/ GHS sification
LVP Aliphatic Hydrocarbon	64742-47-8	45-50%	Aspiration T	oxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<35%	Not	Hazardous
Aliphatic Hydrocarbon	64742-47-8	<25%	Aspiration T Specific Tar Single Exp	Liquid Category 3 oxicity Category 1 get Organ Toxicity osure Category 3 system effects)
Carbon Dioxide	124-38-9	2-3%	Simpl Gas Ur	e Asphyxiant der Pressure, bressed Gas

Note: The specific chemical identity and exact percentages are a trade secret.

4 - First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Eye Contact: Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other

symptoms develop and persist.

Signs and Symptoms of Exposure: Harmful or fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. May cause eye and respiratory irritation. Inhalation of mists or vapors may cause drowsiness, dizziness and other nervous system effects. Skin contact may cause drying

of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

5 - Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 - Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Conditions for Safe Storage: Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 - Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA (Inhalable) ACGIH TLV (as Mineral oil)
	5 mg/m3 TWA OSHA PEL (as Oil mist, mineral)
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV
	5000 ppm TWA OSHA PEL

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your face.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations

where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain

exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 - Physical and Chemical Properties

Appearance:	Light amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8%
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 - 0.82 @ 60°F
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	138°F (59°C) Tag Closed Cup (liquid)	Autoignition Temperature:	Not established

Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	24.1% MIR=0.43gO3/gVOC	Pour Point:	-63°C (-81.4°F) ASTM

10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate

containers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 - Toxicological Information

Symptoms of Overexposure:

Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 - Ecological Information

Ecotoxicity: No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Components are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available
Other Adverse Effects: None known

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14 - Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each

package must be marked with the Limited Quantity Mark)
IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY
ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 - Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not require a California Proposition 65 warning.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

16 - Other Information

HMIS Hazard Rating:

Health - 1 (slight hazard), Fire Hazard - 4 (severe hazard), Physical Hazard - 0 (minimal hazard)

Revision Date: March 5, 2019 Supersedes: July 19, 2018

Revision Summary: Section 9 update VOC data

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed by: I. Kowalski

Regulatory Affairs Dept.

1012200/No.0084704



SAFETY DATA SHEET

NAPA DOT 3 BRAKE FLUID

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Issue Date: March 5, 2014 Revised: April 2, 2015

Product Name: NAPA DUTY DOT 3 BRAKE FILUID

Synonyms: Brake Fluid

CAS Number: Mixture, see Section 3

Chemical Formula: Mixture General Use: Brake Fluid

Manufacturer: Warren Unilube, Inc., 915 E. Jefferson, West Memphis, AR 72301

24-HOUR EMERGENCY NUMBER - CHEMTREC: 1-800-424-9300

WARREN UNILUBE PHONE: (800) 428-9284

FAX: (870) 400-3070

Restrictions on Use:

FOR LABELS FOR THE GENERAL PUBLIC: If medical advice is needed, have product container or label at hand.

Keep out of reach of children and animals.

Read label before use.

FOR THE INDUSTRIAL WORKER: Industrial use only.

SECTION 2: HAZARD(S) IDENTIFICATION

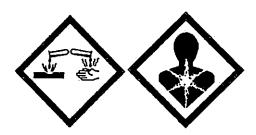
Hazard Classification:

OSHA Hazards: Target Organ Effect, Harmful by ingestion, Irritant, Teratogen, Reproductive hazard

Target Organs: Kidney, Liver, Central nervous system, Female reproductive system, Male reproductive system, Blood.

GHS Classification:

Acute toxicity, dermal (Category 5) Acute toxicity, oral (Category 4) Skin Irritation (Category 3) Serious eye damage (Category 1) Reproductive toxicity (Category 2)



Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H313	May be harmful in contact with skin
H316	Causes mild skin irritation
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child

Precautionary Statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety instructions have been read and
	Understood.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection / face protection.
P301 +P312	IF SWALLOWED: Call a POISON CENTER or doctor / physician
	immediately.
P330	IF SWALLOWED: Rinse mouth.
P312	IF ON SKIN: Call a POISON CENTER or doctor / physician if you
	feel unwell.
P332 + P313	If skin irritation occurs: Get medical advise / attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses if present and easy to do. Continue rinsing.
P310	IF IN EYES: Immediately call a POISON CENTER or doctor /
	physician.
P308 + P313	If exposed or concerned: Get medical advice / attention.
	I II

20-80% of the mixture consists of ingredients of unknown acute toxicity.

HMIS Classification

Health hazard: 1
Chronic Health Hazard
Flammability 1
Physical hazards 0

NFPA Rating

Health hazard: 1
Fire: 1
Reactivity 0

Description of Any Other Hazards Not Otherwise Classified: none known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT Name:	CAS NUMBER	%wt. or %V ∥
Tid I Cl 124		
Triethylene Glycol Monomethyl Ether	112-35-6	5-50
Triethylene Glycol Monoethyl Ether	112-50 - 5	5-50
Triethylene Glycol Monobutyl Ether	143-22-6	5-50
Tetrathylene Glycol Monobutyl Ether	1559-34-8	5-20
Polyethylene Glycol	25322-68-3	5-20
Diethylene Glycol Monobutyl Ether	112-34-5	5-20
Diethylene Glycol	111-46-6	5-15
Diethylene Glycol Monomethyl Ether	111-77-3	<5
Diethylene Glycol Monoethyl Ether	111-90-0	<5
Polyalkylene Glycol Monobutyl Ether	9004-77-7	5-20∥
Polyalkylene Glycol Monomethyl Ether	23783-42-8	5-20
Polyalkylene Glycols	9038-95-3	5-20
Trade Secret Inhibitor Package	Trade Secret	3

3% of the composition of this material has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURE

EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation continues or persists, get medical advice / attention.

SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treatment should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute attempting to stop leak, and disperse vapors.

UNSUITABLE EXTINGUISHING MEDIA: Direct water stream.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area. Do not use direct water stream to extinguish fires. Do not release runoff from fire control methods to sewers or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, and unidentified organic compounds.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS: Wear full protective clothing and NIOSH – approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive breathing mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use appropriate personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with spilled material. Insure adequate ventilation. Remove all sources of ignition. Use non-sparking tools and equipment.

PROTECTIVE CLOTHING: Standard work uniform. Impervious gloves. Safety glasses. Personnel should increase PPE level as deemed appropriate in any given situation.

EMERGENCY PROCEDURES:

SMALL SPILLS: Contain and recover liquid when possible. Collect liquid in appropriate container or absorb with an inert material (such as vermiculite or dry sand) and place in chemical waste container. Do not use combustible materials such as sawdust for the cleanup.

LARGE SPILLS:

Containment: Shut off source of leak if safe to do so. Dike far ahead of liquid spill for later disposal.

Do not allow material to enter sewers or waterways.

Cleanup: Contain and recover liquid when possible. Collect liquid in appropriate container. Absorb residue with an inert material (such as vermiculite or dry sand) and place in chemical waster container. Do not use combustible materials such as sawdust for the cleanup.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS: May be harmful or fatal if swallowed.

STORAGE REQUIREMENTS: Store in a cool dry, ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Controls should be such that adequate ventilation is provided.

VENTILATION: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work place by controlling it at its source.

RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA / NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (e.g. cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

SKIN PROTECTION: Wear chemically protective gloves, boots, aprons and gauntlets to prevent prolonged or repeated skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Make emergency eyewash stations, safety / quick drench showers and washing facilities available in work areas.

WORK HYGIENIC PRACTICES: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material especially before eating, drinking or smoking, using the toilet, or applying cosmetics. Separate contaminate work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Discard belts and shoes that cannot be cleaned.

EXPOSURE GUIDELINES:

	OSH	OSHA PEL		ACGIH TLV		H REL	
Ingredient	TWA	STEL	TWA	STEL	TWA	STEL	USA WEEL
Triethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monomethyl		ļ					1 .
Ether							

Triethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monoethyl Ether	cstao.	CSIAU.	CSIAU.	CSIAU.	CSIAU.	CStab.	CSIAU.
Triethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monobutyl Ether	estab.	estab.	estab.	esiao.	estab.	estab.	estab.
Tetraethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
		estab.	estab.	esiab.	estab.	estab.	estab.
Monobutyl Ether							
Polyethylene	none	none	none	none	none	none	1,0 , 2
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	10 mg/m3
Diethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monobutyl Ether							
Diethylene	none	none	none	none	none	none	
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	10 mg/m3
Diethylene	none	none	none	none	none	none	
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	25 ppm
Monomethyl							
Ether							
Diethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monoethyl Ether							.
Diethylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monobutyl Ether				[l íl
Polyalkylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monobutyl Ether						,	
Polyalkylene	none	none	none	none	none	none	none
Glycol	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Monomethyl							
Ether							
Polyalkylene	none	none	none	none	none	none	none
Glycols	estab.	estab.	estab.	estab.	estab.	estab.	estab.
Inhibitor	none	none	none	none	none	none	none
Package	estab.	estab.	estab.	estab.	estab.	estab.	estab.
1 ackage	csiau.	Lesiau.	colau.	Lipiau.	Lesiau.	Legiau.	Lesiau. II

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE AND COLOR: Yellow to amber

ODOR: Mild

FLASH POINT: >275°F (>135°C)

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: not available

AUTO IGNITION TEMPERATURE: not available DECOMPOSITION TEMPERATURE: not available

VAPOR PRESSURE: not available ODOR THRESHOLD: not available

VAPOR DENSITY (air = 1): >1

pH: 10.0 - 11.5

RELATIVE DENSITY: 8.33 – 9.02 lb/gal

SPECIFIC GRAVITY (H2O = 1 AT 4 C): 1.000 - 1.070 MELTING POINT / FREEZING POINT: not available

WATER SOLUBILITY: soluble

OTHER SOLUBILITIES: not available

INITIAL BOILING POINT AND BOILING RANGE: 480°F (248.9°C), boiling range not available

EVAPORATION RATE (BuAc = 1): <0.01

PARTITION COEFFICIENT: n-OCTANOL/WATER: not available

VISCOSITY: not available

REFRACTIVE INDEX: not available FORMULA WEIGHT: mixture

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: none under normal handling.

STABILITY: stable at room temperature in closed containers under normal storage and handling conditions.

CONDITIONS TO AVOID (STABILITY): none known.

INCOMPATIBILITY (MATERIAL TO AVOID): none known.

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Thermal oxidative decomposition can produce carbon monoxide, carbon dioxide and unknown organic compounds.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): Hazardous polymerization will not occur.

HAZARDOUS POLYMERICATION BY-PRODUCTS: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Swallowing larger amounts may cause nausea and vomiting, abdominal discomfort or diarrhea. May cause dizziness and drowsiness.

ACUTE EFFECTS:

EYE CONTACT: May cause slight eye irritation. May cause slight corneal injury.

SKIN CONTACT: Brief contact is essentially nonirritating to skin.

INHALATION: At room temperature, exposure to vapor is minimal due to low volatility. Mist may cause irritation of the upper respiratory tract.

INGESTION: Toxic or fatal if ingested. For diethylene glycol, a component of this mixture, a lethal dose can be as little as two ounces. Symptoms of diethylene glycol poisoning include severe abdominal cramping, diarrhea, vomiting, sweating, confusion, cardiac abnormalities, neurological abnormalities, infrequent urination, intoxication or CNS depression. If left untreated, product will metabolize to cause metabolic acidosis, renal failure, hyperkalemia, hyponatremia, paralysis, cardiac failure or death. Seek medical attention immediately for poisoning. If ingested, DO NOT wait for symptoms to develop before getting treatment.

TARGET ORGAN EFFECTS: Product is toxic to kidneys, liver, central nervous system and heart. Metabolic products of diethylene glycol produce acidosis and organ toxicity effects.

CHRONIC EFFECTS: May cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Various skin conditions.

ACUTE TOXICITY VALUES

Triethylene Glycol Monomethyl Ether

ORAL LD50 (rat): 11,842 mg/kg

DERMAL LD50 (rabbit): 7,441 mg/kg

INHALATION LC50 (state animal): data unavailable

Triethylene Glycol Monoethyl Ether

ORAL LD50 (state animal): data unavailable
DERMAL LD50 (state animal): data unavailable
INHALATION LC50 (state animal): data unavailable

Tetraethylene Glycol Monobutyl Ether

ORAL LD50 (rat): 5,300 mg/kg

DERMAL LD50 (rabbit): 3,505 mg/kg

INHALATION LC50 (state animal): data unavailable

Polyethylene Glycol

ORAL LD50 (state animal): data unavailable DERMAL LD50 (state animal): data unavailable INHALATION LC50 (state animal): data unavailable

Diethylene Glycol Monobutyl Ether

ORAL LD50 (rat): 5,660 mg/kg

DERMAL LD50 (rabbit): 2,700 mg/kg

INHALATION LC50 (state animal): data unavailable

Diethylene Glycol

ORAL LD50 (rat): 12,565 mg/kg

DERMAL LD50 (rabbit): 11,890 mg/kg

INHALATION LC50 (state animal): data unavailable

Diethylene Glycol Monomethyl Ether

ORAL LD50 (rat): >7,000 mg/kg

DERMAL LD50 (rabbit): >20,400 mg/kg

INHALATION LC50 (state animal): data unavailable

Diethylene Glycol Monoethyl Ether

ORAL LD50 (rat): 10,502 mg/kg

DERMAL LD50 (rabbit): 9,143 mg/kg

INHALATION LC50 (state animal): data unavailable

Polyalkylene Glycol Monobutyl Ether

ORAL LD50 (rat): >2,000 mg/kg DERMAL LD50 (rat): >2,000 mg/kg

INHALATION LC50 (state animal): data unavailable

Polyalkylene Glycol Monomethyl Ether

ORAL LD50 (state animal): data unavailable DERMAL LD50 (state animal): data unavailable

INHALATION LC50 (state animal): data unavailable

Polyalkylene Glycols

ORAL LD50 (state animal): data unavailable
DERMAL LD50 (state animal): data unavailable
INHALATION LC50 (state animal): data unavailable

LISTED CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM REPORT ON CARCINOGENS: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC LISTED AS POTENTIAL CARCINOGEN: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA LISTED AS POTENTIAL CARCINOGEN: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

DATA FROM TOXICITY TESTS ON AQUATIC AND/OR TERRESTERIAL ORGANISMS:

Triethylene Glycol Monoethyl Ether: data unavailable Triethylene Glycol Monobutyl Ether: data unavailable

Tetraethylene Glycol Monobutyl Ether: data unavailable

Polyethylene Glycol

Fish: LC50 – Leuciscus idus (Golden orfe) < 500 mg/l

Daphnia: data unavailable

Diethylene Glycol Monobutyl Ether

Fish: LC50 – Lepomis macrochirus – 1,300 mg/l – 96h

LC50 – Leuciscus idus (Golden orfe) – >1,000 mg/l – 48h

Daphnia: data unavailable

Diethylene Glycol

Fish: LC50 – Pimephales promelas (fathead minnow) – 75,200 mg/l – 96h

LC50 - Carassius auratus (goldfish) - 5,000 mg/l - 24h

Daphnia: EC50 – Daphnia magna (Water flea) - >10,000 mg/l – 24h

Diethylene Glycol Monomethyl Ether

Fish: LC50 - Lepomis macrochirus - 7,500 mg/l - 96h

Daphnia: data unavailable

Diethylene Glycol Monoethyl Ether

Fish: LC50 – Pimephales promelas (fathead minnow) – 9,650 mg/l – 96h

Daphnia: EC50 – Daphnia magna (Water flea) - >3,340 mg/l – 24h

Polyalkylene Glycol Monobutyl Ether: data unavailable

Polyalkylene Glycol Monomethyl Ether: data unavailable

Polyalkylene Glycols: data unavailable

ENVIRONMENTAL FATE: data unavailable for mixture

BIOACCUMULATION POTENTIAL: data unavailable for mixture

POTENTIAL TO MOVE FROM SOIL TO GROUNDWATER: data unavailable for mixture

OTHER ADVERS ENVIRONMENTAL EFFECTS: data unavailable for mixture

SECTION 13: DISPOSAL CONSIDERATIONS

CONTAINERS TO USE: No specific recommendations

RECOMMENDED DISPOSAL METHODS: Whatever cannot be saved for recovery or recycling should be disposed of in an approved waste facility in accordance with Federal, State/Provincial and Local requirements.

PHYSICAL AND CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL ACTIVITIES: No specific information available.

WHENEVER POSSIBLE, MATERIAL SHOULD NOT BE ALLOWED TO ENTER SEWAGE DISPOSAL SYSTEMS.

SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION ACTIVITIES: No specific information available.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (49 CFR 172.101)

PROPER SHIPPING NAME: DOT 3 Brake Fluid

DOT Non-Bulk: Not Regulated DOT Bulk: Not Regulated

IATA

Not Dangerous Goods

IMDG

Not Dangerous Goods

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): all components are listed on the TSCA Inventory

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None. However, this product contains various ethylene glycols and glycol ethers which are each included as a broad category on the CERCLA Hazardous Substances list.

SARA TITLE III (SUPERFUND AMENDMENTS ANDA REAUTHORIZATION ACT): No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

311/312 HAZARD CATEGORIES:

Immediate Hazard: yes / no
Delayed Hazard: yes / no
Fire Hazard: yes / no
Pressure Hazard: yes / no
Reactivity Hazard: yes / no

313 REPORTABLE INGREDIENTS: The following components are subject to reporting levels established by SARA Title III, Section 313:

2-(2-Ethoxyethoxy) ethanol 2-(2-methoxyethoxy) ethanol 2-(2-Butoxyethoxy) ethanol CAS Number: 111-90-0 CAS Number: 111-77-3 CAS Number: 112-34-5

Page 11 of 13

SDS – NAPA DOT 3 Brake Fluid

CLEAN WATER ACT (CWA): None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

CLEAN AIR ACT (CAA): None of the chemicals in the product are listed as Hazardous Air Pollutants.

STATE REGULATIONS:

California: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts:

2-(2-Methoxyethoxy) ethanol CAS Number: 111-77-3

New Jersey:

Triethylene glycol monobutyl ether	CAS Number:	143-22-6
Polyethylene glycol	CAS Number:	25322-68-
2-(2-Butoxyethoxy) ethanol	CAS Number:	112-34-5
Diethylene glycol	CAS Number:	111-46-6
2-(2-Methoxyethoxy) ethanol	CAS Number:	111-77-3
2-(2-Ethoxyethoxy) ethanol	CAS Number:	111-90-0

Pennsylvania:

Triethylene glycol monobutyl ether	CAS Number: 143-22-6
Polyethylene glycol	CAS Number: 25322-68-
2-(2-Butoxyethoxy) ethanol	CAS Number: 112-34-5
Diethylene glycol	CAS Number: 111-46-6
2-(2-Methoxyethoxy) ethanol	CAS Number: 111-77-3
2-(2-Ethoxyethoxy) ethanol	CAS Number: 111-90-0

INTERNAL REGULATIONS:

Persistent Organic Pollutants (United Nations): not listed

Initial List of Prior Informed Consent Chemicals (United Nations): not listed

Ozone Depleting Substances (Montreal Protocol): not listed

Greenhouse Gases (Intergovernmental Panel on Climate Change): not listed

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES: All components are listed.

CANADA: DOMESTIC SUBSTANCES LIST: All components are listed.

CANADA WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): D2B - Toxic Material at >1%.

CANADIAN ENVIRONMENTAL PROTECTION AGENCY TOXICS LIST: None of the components of this mixture are listed.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES: This material contains components not listed on the EINECS Inventory: Polyalkylene glycols, CAS Number 9038-95-3.

NEW ZEALAND: All components are listed.

PHILLIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES: All components are listed.

SECTION 16: REGULATORY INFORMATION

Disclaimer: This product is FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH CHILDREN AND ANIMALS. DO NOT TAKE INTERNALLY.

Warren Unilube, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specific product designated and may not be valid where such products is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and of the information referred to herein are beyond the control of Warren Unilube, Warren Unilube expressly disclaims any and all liability as to any results obtained or arising from any of the product or reliance on such information.

For additional product information, please contact Warren Unilube, Inc. at (800) \$28-9284.



Material Name: EXODOR® ELEMONATE™ GREY WATER HOLDING TANK DEODORIZER

ID: WAL-030

Section 1 - Chemical Product and Company Identification * * *

Chemical Name: Grey water holding tank deodorizer

Product Use: Grey water tanks Manufacturer Information WALEX Products Company, Inc.

P.O. Box 3785

Wilmington, NC 28406

Phone: +1 910 371 2242

Emergency # 1-800-424-9300 (CHEMTREC USA) Mfg Contact: International: +1 202-483-7613 (call collect)

General Comments

CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

* * * Section 2 - Composition / Information on Ingredients

CAS#	Component	: !	Percent
7487-88-9	Magnesium sulfate	1	10-15
7558-80-7	Monosodium Phosphate		10-20
Not Available	Fragrance Mixture		8-15
Not Available	Colorant Mixture - Non-Reactive Non-Hazardous		5-15
9004-34-6	Celiulose		5-10
52-51-7 63231-67 025322-68-3	2-Bromo-2-nitro-1,3-propanediol Silica Polyethylene Glycol		2-7 10-20 5-10

component Information/Information on Non-Hazardous Components

Other components consisting of 10-15% of the total composition are considered trade secrets and are being excluded from disclosure on this MSDS under terms of OSHA 29 CFR 1926,29 and 29 CFR 1928,21. The hazards of this (these) ingredient(s) are given on this MSDS.

Section 3 - Hazards Identification

Emergency Overview

CAUTION Product is granular solid tablet. Contents of packet cause eye irritation. Prolonged contact may cause eye damage. This product may be irritating to the respiratory system and skin.

Potential Health Effects: Eyes

Contents of tablet can cause severe eye irritation, and possible eye damage upon prolonged exposure.

Potential Health Effects: Skin

Contents of packet may cause irritation to the skin.

Potential Health Effects: Ingestion

Ingestion can cause gastrointestinal irritation, nauseal vomiting and diarrhea. May cause irritation of the throat, stomach, and gastrointestinal tract.

Potential Health Effects: Inhalation

Dusts of this product may cause irritation of the nose, throat, and respiratory tract,

* * * Section 4 - First Aid Measures * * *

First Aid: Eves

Remove contact lenses, if worn. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Page 1 of 5 Issue Date Print Date: 12/12/2008 1/17/08

Material Name: EXODOR® ELEMONATE™ GREY WATER HOLDING TANK DEODORIZER

ID: WAL-030

First Aid: Ingestion

Do not induce vomiting. Have victim rinse mouth thoroughly with water. Give several glasses of water to dilute contents of stomach and call a physician.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist.

Method Used: Not available

Lower Flammable Limit (LFL): Not determined

Flammability Classification: OSHA Class IIIA Combustible

* * * Section 5 - Fire Fighting Measures *

Flash Point: >65°C (>150°F)

Upper Flammable Limit (UFL): Not determined

Auto Ignition: Not determined Rate of Burning: Not determined

General Fire Hazards
None identified.

Hazardous Combustion Products

Irritating and/or toxic gases, including hydrogen bromide and oxides of magnesium, nitrogen, sulfur or sodium, may be emitted upon the product's decomposition.

Extinguishing Media

Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

* * * Section 6 - Accidental Release Measures

Containment Procedures

Containment of this material should not be necessary.

Clean-Up Procedures

Sweep up or gather material and place in appropriate container for disposal. Avoid raising dust. Wash spill area thoroughly. Wear appropriate protective equipment during cleanup.

Evacuation Procedures

Not ordinarily required.

Special Procedures

Wear appropriate personal protective equipment to minimize contact with eyes or skin. Avoid inhalation of dust from the spilled material.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Prevent eye and skin contact. Do not handle with wet hands. Prevent inhalation of dust. Wash thoroughly after handling. Avoid prolonged exposure.

Storage Procedures

Store in cool, dry, well-ventilated area in original container. Keep sealed. Keep out of reach of children.

* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses when handling lose powder during manufacturing.

Personal Protective Equipment: Skin

Wear impervious gloves for prolonged contact during manufacturing.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection

must be provided.

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Material Name: EXODOR® ELEMONATE™ GREY WATER HOLDING TANK DEODORIZER

ID: WAL-030

Personal Protective Equipment: General

Use good industrial hygiene practices in handling this product.

*** Section 9 - Physical & Chemical Properties

Appearance: Dry Granular Tablet

Physical State: Dry granular solid Vapor Pressure: Not applicable

Boiling Point: Not applicable Solubility (H2O): >85%

Bulk Density: 60g/100ml Fragrance

:Hq 6-7

Vapor Density: Not applicable **Melting Point:** Not applicable

Specific Gravity: 0.6 Percent Volatile: 10%

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Protect from moisture. Avoid dispersion of dust in air.

Incompatibility

May react with strong oxidizing agents.

Hazardous Decomposition

Irritating and/or toxic fumes and gases, including hydrogen bromide and oxides of magnesium, nitrogen, sulfur or sodium, may be emitted upon the product's decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

The toxicological properties of this material have not been fully investigated. Product is expected to be harmful if swallowed, and cause eye, skin, respiratory system, and gastrointestinal tract irritation.

B: Component Analysis - LD50/LC50

Polyoxyethylene-polyoxypropylene block copolymer (9003-11-6)

Oral LD50 Rat: 5700 mg/kg; Oral LD50 Mouse: 3 g/kg

2-Bromo-2-nitro-1,3-propanediol (52-51-7)

Inhalation LC50 Rat: >5 g/m3/6H; Oral LD50 Rat: 180 mg/kg; Oral LD50 Mouse: 270 mg/kg

Carcinogenicity

A: General Product Information

The carcinogenic properties of this material have not been fully investigated.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Components of this product are hazardous to aquatic life.

This product as a whole has an EC50 = 3.56% (15-minutes).

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Issue Date: 1/17/08

Print Date: 12/12/2008

Conditions

Material Name: EXODOR® ELEMONATE™ GREY WATER HOLDING TANK DEODORIZER

ID: WAL-030

া: Component Analysis - Ecotoxicity - Aquatic Toxicity

2-Bromo-2-nitro-1,3-propanediol (52-51-7)

Test & Species

5 min EC50 Photobacterium

0.91 mg/L

phosphoreum

15 min EC50 Photobacterium

0.50 mg/L

phosphoreum

30 min EC50 Photobacterium

0.41 mg/L

phosphoreum

Environmental Fate

No additional information available.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions

A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of empty pouch in trash. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information

US DOT Information

Shipping Name: Compounds Cleaning No. 1

Additional Info. Not regulated.

* * * Section 15 - Regulatory Information

US Federal Regulations

A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appellidix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Product may be subject to reporting in states other than those listed for individual components.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

A: General Product Information

No additional information available.

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Issue Date: 1/17/08

Print Date: 12/12/2008

Material Name: EXODOR® ELEMONATE™ GREY WATER HOLDING TANK DEODORIZER

ID: WAL-030

B: Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC
Magnesium sulfate	7487-88-9	Yes	DSL	EINECS
Monosodium Phosphate Polyethylene Glycol	7558-80-7 25322-68-3	Yes YES	DSL	EINECS EINECS
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IMO = International Maritime Organization; MAC/MAK = Maximum Concentration Value in the Workplace; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NLP = No Longer Polymer; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; VLAVLE = Work Exposure Threshold; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

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BIO-PAK RV NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010 Revision Date: 5/14/2015 Page 1 of 6

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Walex Products Company Inc P.O. Box 3785 Wilmington, NC 28406

Phone:

910-371-2242

Fax: Email: 910-371-2094

Web:

info@walex.com

www.walex.com

Product Name:

BIO-PAK RV NATURAL ENZYME DEODORIZER & WASTE DIGESTER

Revision Date:

5/14/2015

Version: **MSDS Number:**

Product Code: Chemical Family: WAL-010 **BIOPPBG**

internal ID:

Toilet Deodorizer

Product'Use:

WAL-010

Preparation of deodorizing solution for holding tanks.

Emergency # 1-800-424-9300 (Chemtrec USA) Mfg Contact: International: +1-703-527-3887

HAZARDS IDENTIFICATION

Inhalation:

Dust of this product may cause irriatation of the nose, throat, and respiratory tract. May cause

allergy or asthma symptoms in some individuals.

Skin Contact:

Contents of packet may cause irritation to the skin.

Eye Contact:

Contents of Packet will cause eye irritation.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea vomiting and diarrhea. May cause irritation

of the throat, stomach, and gastrointestinal tract.

GHS Signal Word: DANGER

GHS Hazard Pictograms:





GHS Classifications:

Health, Respiratory or skin sensitization, 1 Respiratory Health, Serious Eye Damage/Eye Irritation, 2 A



BIO-PAK RV NATURAL ENZYME DEODORIZER & WASTE DIGESTER

Revision Date: 5/14/2015 MSDS Number: WAL-010 Page 2 of 6

Health, Skin corrosion/irritation, 2

GHS Phrases:

H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled

H319 - Causes serious eve irritation

H315 - Causes skin irritation

GHS Precautionary Statements:

P102 - Keep out of reach of children.

P103 - Read label before use.

P233 - Keep container tightly closed.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 - Immediately call a POISON CENTER or doctor/physician.

P302+350 - IF ON SKIN: Gently wash with soap and water.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 - If experiencing respiratory symptoms: Get medical advice/attention.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Ingredients:

Cas # | Percentage | Chemical Name | GHS Classification

Ethoxylated Fatty Alcohol Proprietary 5-10 3-7 Fragrance NA Proprietary 1-3 Cellulase 9001-05-2 3-8 Catalase 2-5 Dye NA

Other components consisting of 50-60% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) ingredients (s) are given on this SDS.

43 FIRST AID MEASURES

May casue irritation, sensitisation. Consult a doctor if victim feels unwell. Inhalation:

Skin Contact: Remove conaminated clothing immediately. Wash off skin with plenty of water.

Wash out with water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation **Eye Contact:**

persists.

Do not induce vomiting. Rinse the mouth with water. Give one to two glass of water. Consult a Ingestion:

doctor immediately.



GHS Safety Data Sheet

Walex Products Company Inc

BIO-PAK RV NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010 Revision Date: 5/14/2015

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ি FIRE FIGHTING MEASURES

Flash Point:

>150 C

Autoignition Temp:

>360 C

Extinguishing media: Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Special protective equipment for fire-fighters: Use adequate respiratory equipment in case of insufficient ventilation.

ACCIDENTAL RELEASE MEASURES

Personal precautions: Clean up spills immediately. Avoid contact with spilled or released material.

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.

Methods for cleaning up: Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away

remainder with plenty of water.

Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

HANDLING AND STORAGE

Handling Precautions:

Handling: Wear proper PPE when conact with packets contents is expected. Avoid

contact with skin and eyes. Avoid breathing dust.

Storage: Keep in a cool, dry and well ventilated place (>35 C). Keep away from

oxidation agents.

Recommended packaging: Keep in orininal container.

Use: use only as directed. Do not mix with other chemicals.

② EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use only in well ventilated areas. Comply with standard proautionary measures for

working with chemicals.

Personal Protective Equip: Eyes/Face: Not normally needed. Wear goggles if exposer to powder is likely.

Body: None required.

Respiratory Protection: Not normally needed. Wear NIOSH approved respiratory if

exposure to packets contents is expected.

Hand Protection: Not normally needed. Use impervious gloves if exposed to packets

contents.



BIO-PAK RV NATURAL ENZYME DEODORIZER & WASTE DIGESTER

Revision Date: 5/14/2015 MSDS Number: WAL-010 Page 4 of 6

 $\{c\}$ PHYSICAL AND CHEMICAL PROPERTIES

Appearance: **Physical State:** Green Solid Powder

Fresh

Odor:

Solubility:

75%

Spec Grav / Density:

.5-.6 g/mi

Softening Point:

NA

Percent Volatile:

5%

Boiling Point:

NA

pH:

(11)

4-5 5%

VOC:

STABILITY AND REACTIVITY

Stability:

Stable under normal conditions

Materials to Avoid:

Keep away from strong ozidzing agents.

Hazardous Decomposition:

Unknown

Hazardous Polymerization:

Not expected to occur

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TOXICOLOGICAL INFORMATION

No toxicological research has been carried out on this product. Acute Toxicity:

Inhalation:

Acute toxicity: Calculated LC50: 10mg/l.

Sensitisation: Sensitizing. May cause allergic reaction.

Skin:

Irritation: Prolonged contact may dry out and defat the skin

Eye:

Irritation: Irritant

Ingestion:

Acute toxicity: calculated LD50: >5000 mg/kg

Irritation: May cause a feeling of sickness, vomiting and diarrhoea



В	IO-PAK RV NATURAL ENZYME DE	ODORIZER & WASTE DIGESTE	R
MSDS Number: WAI	010	Revis	ion Date: 5/14/2015
- Acr	1-22		Page 5 of 6
92	ECOLOGICAL INFORMATION		
No ecotoxicological re	esearch has been carried aout on this product.		ľ
Ecotoxicity: Not class	ified as dangerous for the aquatic environment		
Degradability: Produc	t is considered biodegradable according to OE	CD guidlines.	
Bioaccumulative pote	ntial: No specific information known.		
113	DISPOSAL CONSIDERATIONS		
Disposal should be	e in accordance with applicable regional,	national, and local laws and regulation	s.
		,	
143	TRANSPORT INFORMATION		
I and termonaut AD	DIDID COVICIONIE, N. A		
•	PR/RID and GGVS/GGVE: Not classified		
•	G/GGVSee: Not classified		
	D-TI and IATA-DGR: Not classified		
Transport/Further	information: Country specific variations	may apply	
 16	REGULATORY INFORMATION		<u> </u>
* Private	The state of the s		
JS Federal Regula	tions		
A: General Produc	t Information		
	e tested using methods described in efinitions of hazardous wastes.	40 CFR Part 261 to determine if it	: meets
3:Component Analy		222	
ection 313 (40 C	product's components are listed und FR 372.65), or CERCLA (40 CFR 302.4)	er Saka Section 302 (40 CFR 355 Ar	pendix A), SARA
State Regulations A: General Produc		•	
	e subject to reporting in states oth	er than those listed for individual	ıl
3: Component Anal	ysis-State prodcuts components are listed on t	he state lists from CA.MA.MN.NJ.PA	LOR RT.
		The state of the s	,,



BIO-PAK RV NATURAL ENZYME DEODORI	ZER & WASTE DIGESTER
MSDS Number: WAL-010	Revision Date: 5/14/2015
Component Analysis-WHMIS IDL No components are listed in the WHMIS IDL.	Page 6 of 6
16 OTHER INFORMATION	

Reasonable care has been taken in the preparation of this information, but the manufacturer makes on warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer make no representations and assumes no liability for any direct, incidental or consequential damaages resulting from its use.



BIO-PAK RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010.2 Revision Date: 5/14/2015

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T PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Walex Products Company Inc

P.O. Box 3785

Wilmington, NC 28406

Phone:

910-371-2242

Fax:

910-371-2094

Email: Web:

info@walex.com

www.walex.com

Product Name: Revision Date:

BIO-PAK RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

Version:

5/14/2015

MSDS Number:

Product Code: **Chemical Family:** WAL-010,2 **BIOTROPBG**

Internal ID: Product Use: **Toilet Deodorizer**

WAL-010.2

Preparation of deodorizing solution for holding tanks.

Emergency # 1-800-424-9300 (Chemtrec USA) Mfg Contact: International: +1-703-527-3887

2 HAZARDS IDENTIFICATION

Inhalation:

Dust of this product may cause irriatation of the nose, throat, and respiratory tract. May cause

allergy or asthma symptoms in some individuals.

Skin Contact:

Contents of packet may cause irritation to the skin.

Eye Contact:

Contents of Packet will cause eye irritation.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea vomiting and diarrhea! May cause irritation

of the throat, stomach, and gastrointestinal tract.

GHS Signal Word: DANGER

GHS Hazard Pictograms:





GHS Classifications:

Health, Respiratory or skin sensitization, 1 Respiratory Health, Serious Eye Damage/Eye Irritation, 2 A



GHS Safety Data Sheet

Walex Products Company Inc

BIO-PAK RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010.2 Revision Date: 5/14/2015 Page 2 of 6 Health, Skin corrosion/irritation, 2 **GHS Phrases:** H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled H319 - Causes serious eye irritation H315 - Causes skin irritation **GHS Precautionary Statements:** P102 - Keep out of reach of children. P103 - Read label before use. P233 - Keep container tightly closed. P264 - Wash _ thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER or doctor/physician. P302+350 - IF ON SKIN: Gently wash with soap and water. P333+313 - If skin irritation or a rash occurs: Get medical advide/attention. P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable P342 - If experiencing respiratory symptoms: Get medical advice/attention. P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

8 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Ingredients:

Cas # Percent	cage Chemical Name	GHS Classification	
Proprietary 5-10 NA 3-7 Proprietary 1-3	Ethoxylated Fatty Alcoho Fragrance Cellulase	ol	

9001-05-2 3-8 Catalase
NA 2-5 Dye

P315 - Get immediate medical advice/attention.

Other components consisting of 50-60% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) ingredients (s) are given on this SDS.

? FIRST AID MEASURES

Inhalation: May casue irritation, sensitisation. Consult a doctor if victim feels unwell.

Skin Contact: Remove conaminated clothing immediately. Wash off skin with plenty of water.

Eye Contact: Wash out with water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation

persists.

Ingestion: Do not induce vomiting. Rinse the mouth with water. Give one to two glass of water. Consult a

doctor immediately...



GHS Safety Data Sheet

Walex Products Company Inc

BIO-PAK RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010.2 Revision Date: 5/14/2015

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FIRE FIGHTING MEASURES

Flash Point:

>150 C

Autoignition Temp:

>360 C

Extinguishing media: Carbondioxide (CO2). Foam. Dry chemiçal. Water fog.

Special protective equipment for fire-fighters: Use adequate respiratory equipment in case of insufficient ventilation.

6

ACCIDENTAL RELEASE MEASURES

Personal precautions: Clean up spills immediately. Avoid contact with spilled or released material.

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.

Methods for cleaning up: Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

1 7

HANDLING AND STORAGE

Handling Precautions:

Handling: Wear proper PPE when conact with packets contents is expected. Avoid

contact with skin and eyes. Avoid breathing dust.

Storage: Keep in a cool, dry and well ventilated place (>35 C), Keep away from

oxidation agents.

Recommended packaging: Keep in orininal container.

Use: use only as directed. Do not mix with other chemicals.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use only in well ventilated areas. Comply with standard preautionary measures for

working with chemicals.

Personal Protective Equip:

Eyes/Face: Not normally needed. Wear goggles if exposer to powder is likely.

Body: None required.

Respiratory Protection: Not normally needed. Wear NIOSH approved respiratory if

exposure to packets contents is expected.

Hand Protection: Not normally needed. Use impervious gloves if exposed to packets

contents.



BIO-PAK RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

MSDS Number: WAL-010.2 Revision Date: 5/14/2015 Page 4 of 6

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Orange solid

Physical State:

Powder

Odor:

<u>§</u>,

Tropical

Solubility:

75%

Spec Grav/Density:

.5-.6 g/ml

Softening Point:

NA

Percent Volatile:

5%

Boiling Point:

NA

pH: VOC:

4-5 5%

STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Materials to Avoid:

Keep away from strong ozidzing agents.

Hazardous Decomposition:

Unknown

Hazardous Polymerization:

Not expected to occur

441

TOXICOLOGICAL INFORMATION

No toxicological research has been carried out on this product. Acute Toxicity:

Inhalation:

Acute toxicity: Calculated LC50: 10mg/l.

Sensitisation: Sensitizing. May cause allergic reaction.

Skin:

Irritation: Prolonged contact may dry out and defat the skin

Eye:

Irritation: Irritant

Ingestion:

Acute toxicity: calculated LD50: >5000 mg/kg

Irritation: May cause a feeling of sickness, vomiting and diarrhoea



	K RV TROPICAL NATURAL ENZYN	¶E DEODORIZER & WAST		
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- um	T	<u> </u>		Page 5 of 6
122	ECOLOGICAL INFORMATION		1	
No ecotoxicological re	search has been carried aout on this product.			1
Ecotoxicity: Not classi	fied as dangerous for the aquatic environment.			
Degradability: Product	t is considered biodegradable according to OE	D guidlines.	1	
Bioaccumulative poter	ntial: No specific information known.		'	}
133	DISPOSAL CONSIDERATIONS			
Disposal should be	in accordance with applicable regional, i	ational, and local laws and reg	ulation	s.
163	TRANSPORT INFORMATION			
Land transport AD	R/RID and GGVS/GGVE: Not classified		İ	
-				
•	G/GGVSee: Not classified			
-	O-TI and IATA-DGR: Not classified			
Transport/Further	information: Country specific variations r	nay apply		
			[]	
	REGULATORY INFORMATION			
US Federal Regula	tions		ll ll	
A: General Produc	t Information			
	e tested using methods described in efinitions of hazardous wastes.	40 CFR Part 261 to determine	e if ∦t	meets
B:Component Analy None of this section 313 (40 C	sis product's components are listed und FR 372.65), or CERCLA (40 CFR 302.4)	er SARA Section 302 (40 CFR	355 A	opendix A), SARA
State Regulations				
	t Information e subject to reporting in states oth	er than those listed for ind	; dividua	al
components. 3: Component Anal	ysis-State			
	prodcuts components are listed on t	he state lists from CA,MA,M	N, UJ, PA	A,OR RI.



K RV TROPICAL NATURAL ENZYME DEODORIZER & WASTE DIGESTER

DIO-I AR IX TROFICAL NATURAL ENZIT	WE DEODORIZER & WASTE DIGESTER
MSDS Number: WAL-010.2	Revision Date: 5/14/2015
Component Analysis-WHMIS IDL No components are listed in the WHMIS IDL.	Page 6 of 6
OTHER INFORMATION	

Reasonable care has been taken in the preparation of this information, but the manufacturer makes on warranty of merchantability or any other warranty, expressed or implied, with respect to this inforantion. The manufacturer make no representations and assumes no liability for any direct, incidental or consequential damaages resulting from its use.



-	PORTA-PAK R	V LAVENDER		
MSDS Number: WA	L-009		Revision Date: 5/14/20	_
			Fage OI	Ť
		TION TON		
ିପ	PRODUCT AND COMPANY IDE	NIFICATION		
1949 POPULAR S	TS COMPANY INC TREET CAROLINA 28451		;	
Phone: Fax: Email: Web:	910-371-2242 910371-2094 info@walex.com www.walex.com			
Product Name: Revision Date: Version: MSDS Number: CAS Number: Product Code: Internal ID: Product Use:	PORTA-PAK RV LAVENDER 5/14/2015 01 WAL-009 NA PPRV10LAV WAL-009 USED FOR DEODORIZING HOLDING	TANKS		
involving chemicals.	one number is to be used only in the event of che 424-9300 (CHEMTREC USA) 3-527-3887 (CHEMTREC INTERNATIONAL) (ca			
2	HAZARDS IDENTIFICATION			
Inhalation:	Inhalation of dust may be irritating to to result in central nervous system effect and blurred vision.	is including headache, sleep	iness, dizziness, sidifed sp	JEEC
Skin Contact:	Contents of packet may cause irritation some individuals. Repeated contact m	ay worsen irritation.		16.1
Eye Contact:	Contents of packet will cause modera	le to severe eye irritation and	l possible eye damage.	
Ingestion:	This product is harmful if swallowed. vomiting and diarrhea. May cause irrit tract.	ngestion can cause gastroin ation or burns to the throat,	testinal irritation, nausea, stomach, and gastrointestir	nai
)			!	



PORTA-PAK RV LAVENDER

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GHS Signal Word:

DANGER

GHS Hazard Pictograms:





GHS Classifications:

Health, Acute toxicity, 4 Oral

Health, Skin corrosion/irritation, 1 B

Health, Serious Eye Damage/Eye Irritation, 1

Health, Respiratory or skin sensitization, 1 Skin

GHS Phrases:

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

GHS Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P404 - Store in a closed container.

P102 - Keep out of reach of children.

P103 - Read label before use.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 - Do NOT induce vomiting.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, Continue rinsing.

P314 - Get Medical advice/attention if you feel unwell.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

•

Cas #	Percentage	Chemical Name
Proprietary 52-51-7 N/A N/A 7487-88-7	10-20 3-8 3-7 10-14 15-20	Surfactant 2-Bromo-2-nitropropane-1,3-diol Dye Fragrance Magnesium Sulfate

Other components consisting of 30-40% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) ingredient (S) are given on this SDS.



		PORTA-PAK RV	LAVENDER	,		_		
ASDS Number:	WAL-009			Revision	on Date:	5/14/2015		
			<u> </u>	1	Page	3 of 5		
ŭί	FIRS	T AID MEASURES			<u> </u>			
nhalation:	lf inhaled, i develop or	mmediately remove the affected persist.	person to fresh air. Call a physic	ian if	 	ıs		
Skin Contact:	For skin co	ntact, remove contaminted cloth n reaction in certain individuals.	ing, wash immediately with soap If irritation persists, get medical	and v	vater. Ma tion.	y cause		
Eye Contact:	e Contact: Remove contact lenses if worn. Immediately flush eyes with lukewarm water for at lease 15 minutes, while holding eyelids open. Seek medical attention at once.							
ngestion:	Do not indu	uce vomiting. Have victim rinse m lute contents of stomach call phy	nouth thoroughly with water. Give	e seve	ral glass	es of		
				;				
45) 15)	FIRE	FIGHTING MEASURES		-	<u> </u>			
Flash Point: Autoignition Te	mn:	>150C Not determined						
=	oam, carbon d							
				ţ				
 (5	ACC	IDENTAL RELEASE MEASU	RES	<u>i </u>				
CLEAN UP PRO pill area thorou	OCEDURES: Si ghly, Wear app	weep up or gather material and place ropriate protective equipment during of	in appropriate container for disposal cleanup.	. Avoid	raising di	ust. vvasr		
'ন	HAN	DLING AND STORAGE						
Handling Preca		Prevent eye contact. Do not ha thoroughly after handling. Avo Store in cool/dry area.	ndle with wet hands. Prevent inh id prolonged exposure.	alatio	n of dust	. Wash		
Storage Requir	ements.	Store in coopery area.		1				
<u>(i)</u>	EXP	OSURE CONTROLS/PERSO	NAL PROTECTION					
Engineering Co	ontrols:	Not normally needed. Ventilati dust generated from the handl	on should effectively remove and ing of this product.	l prev	ent build	up of an		
Personal Prote	ctive Equip:	Skin: Not normally needed. We exposed to packet contents.	ear impervious gloves for prolon	- 11				
		huildup of dust, appropriate N	ded. If ventilation is not sufficien IOSH/MSHA respiratory protection ear safety glasses if exposure to	n müs	st be pro	vided.		
ACGIH, OSHA,	and NIOSH ha	ve not developed exposure limits for	any of this products components.					
		,		,				
				i				
				Л				



PORTA-PAK RV LAVENDER Revision Date: 5/14/2015 MSDS Number: WAL-009 Page 4 of 5 PHYSICAL AND CHEMICAL PROPERTIES 15. Appearance: Purple granular solid Dry granular solid Fragrance Odor: **Physical State:** Solubility: >85% Spec Grav J Density: .55-.67 Percent Volatile: 20% pH: 5-6 STABILITY AND REACTIVITY $\{t\}$ Product is stable under normal conditions. Stability: Protect from moisture. **Conditions to Avoid:** May react with strong oxidizing agents. Materials to Avoid: Irritating and/ or toxic fumes and gases, including hydrogen bromide and oxides of Hazardous Decomposition: magnesium, nitrogen, sulfur or sodium, may be emitted upon the products decomposition. Hazardous Polymerization: Will not occur. TOXICOLOGICAL INFORMATION Acute Toxicity Estimates (ATEs) based on the individual ingredient Toxicity Data utilizing the "Additivity Formula" **Acute Toxicity:** Oral (LD 50): (LD50: 1047) Harmful if swallowed Inhalation (LC 50): Not determined Skin irritation: Causes severe skin burns Eye irritation: Causes eye damage Sensitation: May cause an allergic skin reaction Chronic Toxicity: Not determined **ECOLOGICAL INFORMATION** 13 No ecotoxicological research has been carried out on this product. Components of this product are hazardous to aquatic life in high concentration. Product is considered biodegradable according to OECD guidlines.



	PORTA-PAK RV LAVENDER	i	
MSDS Number: V	VAL-009	Revisi	on Date: 5/14/2015
			Page 3 01 3
U3	DISPOSAL CONSIDERATIONS	- 1	
Dispose of was	te material according to Local, State, and Federal regulations.		
পের	TRANSPORT INFORMATION		
Land transport	ADR/RID and GGVS/GGVE: Not regulated	I	
াজ	REGULATORY INFORMATION		<u> </u>
COMPONENT / (CAS/PERC) / CODES	: li	
	517 n/a%) SARA313, TSCA Y DESCRIPTIONS		
SARA313 = SAR TSCA = Toxic	A 313 Title III Toxic Chemicals Substances Control Act	,	
CSWHS = Clean EHS302 = Extr EPCRAWPC = EP HAP = Hazardo MASS = MA Mas NJEHS = NJ Ex NJHS = NJ Rig NRC = Nationa OSHAHTS = OSH OSHAPSM = OSH PA = PA Right TOXICRCRA = E TXAIR = TX Ai	rfund clean up substance Water Act Hazardous substances emely Hazardous Substance CRA Water Priority Chemicals us Air Pollutants sachusetts Hazardous Substances List traordinarily Hazardous Substances ht-to-Know Hazardous Substances lly Recognized Carcinogens IA Hazardous and Toxic Substances IA Chemicals Requiring process safety management -To-Know List of Hazardous Substances CRA Toxic Hazardous Wastes (U-List) .r Contaminants with Health Effects Screening Level Lizardous Waste List		
GG -	OTHER INFORMATION	-	
	the interesting of this information but the manufacturer ma	kes no warrant	v of merchantability o

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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						rint Date: 9/2	
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	NP75200						
		IY IDENTIFIC NAPA® PREI NUTOMATIC	M PE	RF NSMISSION FLUID			
	Details of the supplier of the safe sheet	ty data		ergency telephone number 00-VALVOLINE			
	Valvoline LLC 3499 Blazer Parkway		 Reg -80	ulatory Information Number 00-TEAMVAL	•		
	Lexington, KY 40509 United States of America		Proc	duct Information			
	SDS@valvoline.com		1-80	00-TEAMVAL			
1	SECTION 2. HAZARDS IDENTIFICATION	ON O	<u> </u> 				
	GHS Classification This material is not considered haze (HazCom 2012).	ardous under	the (OSHA Hazard Communication	ı Starı	dard ·	
	GHS Label element						
	This material is not considered haza (HazCom 2012). Other hazards	ardous under	the (OSHA Hazard Communication	n Stan	dard	
	None known.						
	SECTION 3. COMPOSITION/INFORMA	TION ON IN	GRE	DIENTS			
	Substance / Mixture : N	/lixture					
	Chemical nature : [Defatter					
	Hazardous components						
	Chemical Name	CAS-No.	+	Classification	⊣ Č	ncentration	(%)
, l	HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8		Asp. Tox. 1; H304	11		
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METHACRYLATE COPOLYMER Eye Irrit. 2A; H319 1.66 ALKOXYLATED LONG-CHAIN ALKYL AMINE Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3; H412	MINERAL OIL	Not a hazardous 5.00 substance or mixture.
Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3;	METHACRYLATE COPOLYMER	Eye Irrit. 2A; H319 1.66
		Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3;

SECTION 4. FIRST AID MEASURES

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

: Remove contact lenses.

Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of

long-term sequelae. Repeated aspiration of small quantities

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of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed

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Valvo	line			
ETY DATA SHEET			Re	evision Date: 07/31
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D				
5200		<u> </u>		
Environmental precautions	: Prevent furth	 er leakage or sp	oillage if safe to do s	o.
Methods and materials for	: Soak up with	inert absorbent	t material (e.g. sand,	silica gel,
containment and cleaning up	acid binder, u	ıniversal binder		
~	•		·	.
Other information	: Comply with	all applicable fe	deral, state, and loc	al regulations.
]		
TION 7. HANDLING AND STO	ORAGE			
Advice on safe handling			g should be prohibite	ed in the
	application a	réa. protection see	section 8.	
Conditions for safe storage	•		ing materials must c	omply with
Conditions for sale storage	the technolog			ompry war
	110 1001111010	gical salety star	idalds.]]
Materials to avoid	: No materials			
Materials to avoid				
	: No materials	to be especially	y mentioned.	
Materials to avoid	: No materials	to be especially	y mentioned.	
	: No materials OLS/PERSONAL control parame	to be especially	y mentioned.	
CTION 8. EXPOSURE CONTR	: No materials	PROTECTION	y mentioned.	Basis
CTION 8. EXPOSURE CONTR	: No materials OLS/PERSONAL control parame	to be especially PROTECTION	Control parameters / Permissible	Basis
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT	: No materials OLS/PERSONAL control parame	PROTECTION ters Value type (Form of	Control parameters / Permissible concentration 5 mg/m3	NIOSH/GUID
CTION 8. EXPOSURE CONTR Components with workplace Components	: No materials OLS/PERSONAL control parame CAS-No.	PROTECTION ters Value type (Form of exposure) REL	Control parameters / Permissible concentration 5 mg/m3 Mist.	NIOSH/GUID
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT	: No materials OLS/PERSONAL control parame CAS-No.	PROTECTION ters Value type (Form of exposure) REL STEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist.	NIOSH/GUID E NIOSH/GUID E
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT PARAFFINIC DISTILLATE	: No materials OLS/PERSONAL control parame CAS-No.	to be especially PROTECTION ters Value type (Form of exposure) REL STEL PEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist.	NIOSH/GUID E NIOSH/GUID E OSHA_TRA
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT	: No materials OLS/PERSONAL control parame CAS-No.	PROTECTION ters Value type (Form of exposure) REL STEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3	NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT PARAFFINIC DISTILLATE	: No materials OLS/PERSONAL control parame CAS-No.	to be especially PROTECTION ters Value type (Form of exposure) REL STEL PEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 10 mg/m3	NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS NIOSH/GUID E
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT PARAFFINIC DISTILLATE	: No materials OLS/PERSONAL control parame CAS-No.	to be especially PROTECTION ters Value type (Form of exposure) REL STEL PEL REL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3	NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS NIOSH/GUID E NIOSH/GUID E
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT PARAFFINIC DISTILLATE	: No materials OLS/PERSONAL control parame CAS-No.	PROTECTION ters Value type (Form of exposure) REL STEL PEL REL STEL PEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist.	NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS
CTION 8. EXPOSURE CONTR Components with workplace Components HYDROTREATED LIGHT PARAFFINIC DISTILLATE	: No materials OLS/PERSONAL control parame CAS-No.	PROTECTION ters Value type (Form of exposure) REL STEL PEL REL STEL	Control parameters / Permissible concentration 5 mg/m3 Mist. 10 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3 Mist. 5 mg/m3	NIOSH/GUID E NIOSH/GUID E OSHA_TRA NS NIOSH/GUID E NIOSH/GUID E

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exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally

required.

Eye protection

: Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Colour

: red

Odour

: hydrocarbon-like

Odour Threshold

: No data available

pН

: No data available

No data available

: No data ava lable

Flash point

: > 390 °F / > 199 °C

Method: Cleveland open cup

Evaporation rate

: >1

Ethyl Ether

Flammability (solid, gas)

: No data available

Upper explosion limit

: 6 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit

: 1%(V)

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GLP: Calculated Explosive Limit

Vapour pressure

: 0.0133333 hPa (21.11 °C) Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: 7.29 (15.6 °C)

Density

: 0.862 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: ca. 43 mm2/\$ (40 °C)

Oxidizing properties.

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact **Eye Contact** Ingestion

Acute toxicity

Not classified based on available information.

Components:

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Acute oral toxicity

Assessment: The component/mixture is classified as acute

oral toxicity, category 4.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

MINERAL OIL:

Result: Mildly irritating to skin

METHACRYLATE COPOLYMER:

Result: Not irritating to skin

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Result: Corrosive to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

MINERAL OIL:

Result: Mildly irritating to eyes

METHACRYLATE COPOLYMER:

Result: Irritating to eyes

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Result: Corrosive to eyes

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Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitisation.

Components:

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Assessment: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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SECTION 12. ECO	LOGICAL INFO	RMATION	ı.			2 :				-
Ecotoxicity	D I ONO OLIAIN	1 A 1 1/2// A								
Ecotoxicology	D LONG-CHAIN Assessment	N ALKY,L A	MINE:							
	toxicity	: Harmfı	ul to aqu	atic lif	e.					
Chronic aquati	c toxicity	: Harmfu	ul to aqu	atic lif	e with	long lasting	effect	ts.		
Persistence a No data availa	nd değradabili t ble	ty								
Bioaccumulat No data availal	-									
Mobility in so	il									
Other adverse										
No data availa										
Product:										
Additional ecol	ogical	: No dat	a availa	ble						
SECTION 13. DISP	OSAL CONSID	ERATION	s							-
Disposal met	hode									
General advice		: Dispos	se of in a	 accord	ance	with all appli	cable	local, sta	te and	
			l regulat			• •				
Contaminated	packaging	: Empty	remain	j ing cor	ntents					
SECTION 14. TRA	NSPORT INFO	RMATION								_
		-								
International trans	port regulation	ns								
REGULATION P	ROPER SHIPPI	ING NAME	*14	ZARE) [SUBSIDIAR'	γ	PACKING	∐ Ģ MAR	RINF
				ASS		HAZARDS		GROUP	POL	LUTANT /
	· ·									. QTY.
U.S. DOT - ROAD										
	lot dangerous go	oods						j.		
									!!	
N										
FR_RAIL_C	lot dangerous go	node .						1		

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SAFETY DATA SHEET	mie.	Revis	 ion Date: 07/31/2016
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		1	
J.S. DOT - INLAND WATERWAYS			
Not dangerous	goods		
rdg_road_c			
Not dangerous	goods		
<u> </u>			
TDG_RAIL_C Not dangerous	goods		
TDG_INWT_C			
Not dangerous	goods	,	
NTERNATIONAL MARITIME DAN		3	
Not dangerous	goods		
INTERNATIONAL AIR TRANSPO	RT ASSOCIATION	- CARGO	
Not dangerous			
INTERNATIONAL AIR TRANSPOL	T ACCOCIATION	DACCENCED	
NTERNATIONAL AIR TRANSPOI Not dangerous		PASSENGER	
			<u> </u>
MX_DG Not dangerous	goods		
	·		<u> </u>
*ORM = ORM-D, CBL = COMBUS	TIBLE LIQUID		
Marine pollutant	no		
Dangerous goods descriptions (if exceptions that can be applied. (shipment.	indicated above) r Consult shipping do	nay not reflect quantity, end-use or regiocuments for descriptions that are speci	on-specific fic to the
SECTION 15. REGULATORY IN	FORMATION		
SARA 311/312 Hazards	: No SARA H	azards	
	10 /	13	<u> </u>
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SARA 313 Component(s)SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

HEAVY PARAFFINIC DISTILLATE 64742-54-7 90.00 -100,00 % 10.00 1 20.00 % HYDROTREATED LIGHT PARAFFINIC 64742-55-8 DISTILLATE MINERAL OIL Not Assigned 5.00 110.00 % AUTOMATIC TRANSMISSION FLUID Not Assigned 1.00 \ 5.00 % **ADDITIVE New Jersey Right To Know** HEAVY PARAFFINIC DISTILLATE 64742-54-7 90.00 -100.00 % HYDROTREATED LIGHT PARAFFINIC 10.00 20.00 % 64742-55-8 DISTILLATE MINERAL OIL 5.00 1 10.00 % Not Assigned AUTOMATIC TRANSMISSION FLUID Not Assigned 1.00 - 5.00 %

California Prop 65

ADDITIVE

Proposition 65 warnings are not required for this product

Not Assigned

1.00 - 5.00 %

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

METHACRYLATE COPOLYMÉR

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

AUSTR

: On the inventory, or in compliance with the inventory

ENCS

: On the inventory, or in compliance with the inventory

KECL

: On the inventory, or in compliance with the inventory

PICCS

: On the inventory, or in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION		
Further information Revision Date: 07/31/2016	į	
· · · · · · · · · · · · · · · · · · ·	:	
NFPA:	HMIS III:	
Flammability		
1	HEALTH 1	
Health 1	FLAMMABILITY 1	
	PHYSICAL HAZARD 0	
Special hazard.	0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic	
NFPA Flammable and Combustible Liquids C Combustible Liquid Class IIIB	lassification	
Full text of H-Statements referred to under se	ctions 2 and 3	
H302 Harmful if swallowed.		
H304 May be fatal if swallowe		
H314 Causes severe skin bur H317 May cause an allergic s		
H318 Causes serious eye dar		
H319 Causes serious eye irrit		
H402 Harmful to aquatic life. H412 'Harmful to aquatic life w	vith long lasting effects.	
Sources of key data used to compile the Safety Data		
Valvoline internal data including own and sponsored to The UNECE administers regional agreements implem (GHS) and transport.	test reports	elling
The information accumulated herein is believed to be originating with the company or not. Recipients are acinformation is current, applicable, and suitable to their Valvoline's Environmental Health and Safety Department	dvised to confirm in advance of need that circumstances. This SDS has been pite	t the
List of abbreviations and acronyms that could be, but sheet:	not necessarily are, used in this safety o	lata

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ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the American National Standards Institute (Z400.1, 1998), U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals. Refer to Section 16 of this document for the definition of terms and abbreviations.

1. PRODUCT IDENTIFICATION

PRODUCT:

ODORLOS HOLDING TANK TREATMENT

PRODUCT CODE:

V77000,V77001,V77002,V77003,V77004,V77010,V77011,V77012,V77020.

PRODUCT USE:

Vehicle Toilet Maintenance

USES ADVISED AGAINST:

Any off-label use.

MANUFACTURER/

SUPPLIER/DISTRIBUTOR:

Valterra Products, LLC

ADDRESS:

15230 San Fernando Mission Blvd.; Suite 107 Mission Hills, CA 91345

BUSINESS PHONE #:

818-898-1671

EMERGENCY PHONE #:

CHEMTREC:1-800-255-3924; 1-703-527-3887

These products are sold to consumers in containers of relatively small volume. This SDS has been developed to address safety concerns affecting those individuals working in warehouses and other places where large numbers of these containers are stored, as well as those affecting potential users of this product in industrial /occupational or manufacturing settings.

2. HAZARD IDENTIFICATION

GHS HAZARD CLASSIFICATION: Eye Damage/Irritation (Category 1); Skin Corrosion/Irritation (Category 2); Acute toxicity – Oral (Category 4).





LABELING:

Pictogram: See above.

Signal Word: DANGER!

• Hazard Statement: H318: Causes serious eye damage. H315: Causes skin irritation. 302: Harmful if swallowed.

Precautionary Statements:

o PREVENTION: P261: Avoid breathing dust or particulates. P264: Wash all exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear gloves and eye protection.

RESPONSE: P305 + P351 + P338: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician. P302 + P352: IF ON SKIN: Wash with plenty of water. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P362: Take off contaminated clothing and wash before reuse. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330: Rinse mouth.

o DISPOSAL: P501: Dispose of in accordance with local/regional regulations.

ODORLOS HOLDING TANK TREATMENT

VALTERRA PRODCTS, LLC Page 1 of 6

SAFETY DATA SHEET July 1, 2019

2. HAZARD IDENTIFICATION (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	- ·	·	
Glammability			
Physical Hazard	i		

Protective Equipment

2 0 0

R

HMIS Personal Protective Equipment Rating: Occupational Use situations: B - Safety glasses and gloves

HAZARDOUS NOT OTHERWISE CLASSIFIED:

Aquatic Toxicity Classification: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION	W/W%
Calcium Nitrate	10124-37-5	Eye Damage (Category 1); Acute toxicity – Oral (Category 4)	>= 30 - < 50
Ammonium Nitrate	6484-52-2	Oxidizing solids (Category 3); Skin irritation (Category 2); Eye irritation (Category 2A)	>= 15 - < 30
None of the other const present in the mixture.	tituents of this pro	duct contribute health or physical hazard at the concentrations	Balance

4. FIRST AID MEASURES

FIRST AID:

- Eyes: Hold contaminated eyes open and flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention promptly.
- Skin: Flush area with warm, running water. Continue rinsing with water for at least 15 minutes, if any evidence of redness or irritation occurs. Seek medical attention if skin irritation persists
- Inhalation: Obtain fresh air. If necessary, blow nose.
- Ingestion: If it is accidentally ingested, rinse mouth. Contact professional medical personnel or the local poison control center for additional guidance.

ACUTE HEALTH EFFECTS:

- Eyes: Causes serious eye damage. Prolonged contact can cause chemical burns.
- Skin: Causes skin irritation.
- Inhalation: May cause irritation of membranes of nose, mouth, throat if dusts or particulates are inhaled.
- Ingestion: Harmful if swallowed. In the event this product is swallowed, serious irritation of the nose, throat, and digestive tract can occur. Ingestion may cause nausea, vomiting, and diarrhea. Chemical burns are possible.

CHRONIC HEALTH EFFECTS: None reported.

TARGET ORGANS: Skin, eyes.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Conditions affecting the target organs can be aggravated by overexposure to the product.

5. FIRE-FIGHTING MEASURES

NFPA FLAMMABILITY CLASSIFICATION: Not flammable. See symbol to right.

RECOMMENDED FIRE EXTINGUISHING MEDIA: Water Spray, Water Jet, Dry Powder, Foam! Carbon Dioxide, or any other.

UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

UNUSUAL HAZARDS IN FIRE SITUATIONS: When involved in a fire, this material may produce very irritating vapors and toxic gases (e.g., calcium compounds and nitrogen oxides).



ODORLOS HOLDING TANK TREATMENT

VALTERRA PRODCTS, LLC Page 2 of 6

RECOMMENDATIONS TO FIREFIGHTERS: Wear Self Contained Breathing Apparatus and full protective equipment for fire response. Move containers from fire area if it can be done without risk to personnel. Contaminated equipment should be rinsed thoroughly with water before returning to service.

6. ACCIDENTAL RELEASE MEASURES

RESPONSE TO INCIDENTAL RELEASES: Wear gloves and safety glasses when cleaning-up spills.

RESPONSE TO NON-INCIDENTAL RELEASES: As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets of product) by evacuating the impacted area and contacting appropriate emergency personnel.

• Specific Procedures: In the unlikely event of a multi-container release of the product, with no other hazardous condition in the area, the use of an air-purifying respirator with high efficiency particulate air filter, face-shield, safety glasses, and double gloves (e.g. nitrile over latex gloves), and body protection is recommended if mists/sprays could be generated during clean-up.

RESPONSE PROCEDURES FOR ANY RELEASE: Use a damp sponge/polypad to carefully cleanse the contaminated area or items. If appropriate, further clean the contaminated area and equipment with a soap and water solution, followed by a water rinse.

SPILL RESPONSE EQUIPMENT: Polypad or other absorbent material, if needed.

ENVIRONMENTAL PRECAUTIONS: Avoid response actions that can cause a release of a significant amount of the substance into the environment.

REFERENCES TO OTHER SECTIONS:

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

7. HANDLING AND STORAGE

HYGIENE PRACTICES: Keep out of reach of children. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of aerosols, mists, or sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up any spilled product immediately.

HANDLING RECOMMENDATIONS: Avoid skin contact when handling.

INCOMPATIBILITIES: See Section 10 (Stability and Reactivity).

STORAGE RECOMMENDATIONS: Ensure all containers are correctly labeled. Store container in cool, dry place away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity).

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures).

SPECIFIC END USES: Vehicle cleaning and maintenance.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

U.S. NATIONAL EXPOSURE LIMITS: There are no airborne occupational exposure limits that have been established for components of this product listed in Section 3.

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

ENGINEERING CONTROLS: Use this product in well-ventilated environment.

RESPIRATORY PROTECTION: None needed under routine circumstances of use.

HAND PROTECTION: Rubber, latex, or neoprene gloves should be used when prolonged contact is anticipated.

EYE PROTECTION: Splash goggles or safety glasses with side shield are recommended if aerosols, mists, splashes or sprays will be generated during use.

BODY PROTECTION: None needed under typical situations of use or handling.

ODORLOS HOLDING TANK TREATMENT VALTERRA PRODCTS, LLC Page 3 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid and Solid (granule).

COLOR: Colorless. ODOR: Odorless.

pH: Approximately 5-7 (140 g/L solutions). BOILING POINT: Approximately 100 °C (212 °F).

MELTING POINT: -4 - 0 °C (25 - 32 °F) REFRACTIVE INDEX: Not determined.

VISCOCITY: Not determined. FLASH POINT: Not applicable.

LOWER EXPLOSIVE LIMIT (LEL): Not applicable. UPPER EXPLOSIVE LIMIT (UEL): Not applicable. **AUTOIGNITION TEMPERATURE:** Not applicable.

VAPOR PRESSURE: Not determined. VAPOR DENSITY (air = 1): Not determined. DENSITY: 1.52 g/cm3@ 25 °C (77 °F)

EVAPORATION RATE (water = 1). Not determined.

COEFFICIENT OIL/WATER DISTRIBUTION (PARTITION COEFFICENT): Not established.

SOLUBILITY: > 100 G/L.

EXPLOSIVE PROPERTIES: Not applicable.

OXIDIZING PROPERTIES: The oxidizing potential of Ammonium Nitrate is reduced upon dilution, but can still cause some oxidization, especially upon

prolonged contact.

VOLATILE ORGANIC COMPOUNDS: Not

determined.

10. STABILITY AND REACTIVITY

RELATIVE STABILITY (AT STANDARD TEMPERATURES AND PRESSURES): Normally stable. INCOMPATIBILITIES: Alkalis, combustible materials, reducing materials, organic materials, acids.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS CHEMICAL DECOMPOSITION PRODUCTS: Products of thermal decomposition include very irritating vapors and toxic gases (e.g., calcium compounds, nitrogen oxides).

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals.

11. TOXICOLOGY INFORMATION

ACUTE TOXICITY:

PRODUCT ACUTE TOXICITY ESTIMATES:

ATE (Oral) > 1000 - < 2,000 mg/kg ATE (Dermal) >2000 mg/kg

COMPONENT TOXICOLOGY DATA: The following data are available for components of this product.

CALCIUM NITRATE LD50 (oral, rat) = 500 mg/kg

LD50 (skin, rat): 200-5000 mg/kg

AMMONIUM NITRATE

LD50 (oral, rat) = 2,950 mg/kgLD50 (skin, rat) > 5000 mg/kg

- **DEGREE OF IRRITATION:** Contact with this product can cause irritation to skin and serious eye damage. See Section 4 (First Aid Measures) for more details.
- REVIEW OF ACUTE SYMPTOMS AND EFFECT'S BY ROUTE OF EXPOSURE: See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details. t

Eves

Causes serious eye damage.

Skin

Causes skin irritation

Inhalation Indestion

May cause irritation of membranes of nose, mouth, throat if mists, aerosols, or sprays are inhaled. Harmful is swallowed. May cause serious irritation of the mouth, throat, and tissues of the digestive

system. Chemical burns are possible.

CHRONIC TOXICITY:

CARCINOGENICITY STATUS: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency

CHEMICAL	IARC	NTP	NIOSH	OSHA	OTHER
CALCIUM NITRATE	NO	NO	NO	NO	NO
AMMONIUM NITRATE	NO	NO	NO	NO	NO

REPRODUCTIVE TOXICITY INFORMATION: This product is not known to cause any adverse effect on the human reproductive system.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.

ODORLOS HOLDING TANK TREATMENT

VALTERRA PRODCTS, LLC Page 4 of 6

11. TOXICOLOGY INFORMATION

- MUTAGENIC EFFECTS: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable.
- ASPIRATION HAZARD: Not applicable.

12. ECOLOGICAL INFORMATION

TOXICITY TO TERRESTRIAL LIFE: Based on available data, this product may be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.

TOXICITY TO AQUATIC LIFE Based on available data, this product may be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.

AQUATICTOXICOLOGY DATA: The following data are available for components of this product.

CALCIUM NITRATE

LC50 (Fish) = 1,378 mg/l, Fresh water, 96 hours LC50 (Bluegill) = 2,400 mg/l, Fresh water, 4 days LC50 (Daphnia) 490 mg/l, Fresh water, 48 hours EC50 (Algae) > 1,700 mg/l, Salt water, 10 days AMMONIUM NITRATE

LC50 (Fish) = 447 mg/l, Fresh water, 48 hours EC50 (Daphnia) = 490 mg/l, Fresh water, 48 hours EC50 (Algae) = 1,700 mg/l, Salt water, 10 days

MOBILITY, PERSISTENCE, AND DEGRADABILITY: This product is anticipated to be mobile in soil. It is not anticipated to persist in the environment. Good hygiene practices should be implemented to prevent all accidental releases to the environment.

BIOACCUMULATION AND BIOCONCENTRATION POTENTIAL: It is not anticipated that this product will bioaccumulate or bioconcentrate significantly in the environment.

13. DISPOSAL CONSIDERATIONS

WASTE HANDLING RECOMMENDATIONS: Prepare, according to all applicable local, U.S. State and U.S. Federal regulations, and the applicable Canadian standards. EPA RCRA WASTE CODE: Not applicable.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

PROPER SHIPPING NAME:

Not hazardous, per US DOT regulations.

HAZARD CLASSIFICATION:

Not applicable.

UN/NA IDENTIFICATION NUMBER:

Not applicable.

PACKING GROUP:

Not applicable.

LABEL:

Not applicable.

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (2016): Not applicable. OTHER PERTINENT TRANSPORTATION REGULATIONS:

MARINE POLLUTANT STATUS: No component is designated as a DOT Marine Pollutant.

CANADIAN TRANSPORTATION INFORMATION: This product is NOT regulated by Transport Canada as dangerous goods under Canadian transportation standards.

IATA DESIGNATION: This product is NOT regulated as dangerous goods by the International Air Transport Association.

IMO DESIGNATION: This product is NOT regulated as dangerous goods by the International Maritime Organization. See previous information for shipping information

15. REGULATORY INFORMATION

OTHER IMPORTANT U.S. REGULATIONS

CERCLA REPORTING REQUIREMENTS: Not applicable.

SARA SECTION 311/312 FOR PRODUCT: Eye Damage/Irritation; Skin Corrosion/Irritation; Acute Toxicity

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory

CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: No component of this product is known to the State of California to cause cancer or other reproductive harm.

ODORLOS HOLDING TANK TREATMENT VALTERRA PRODCTS, LLC

SAFETY DATA SHEET

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15. REGULATORY INFORMATION (Continued)

SARA REPORTING REQUIREMENTS: The following reporting requirements are applicable to the components of this product:

CHEMICAL	SECTION 302 (40 CFR 355 Append x A	A)	SECTION 304 (40 CFR Table 302.4)		SECTION 313 (40 CFR 372.65)
Calcium Nitrate	NO		NO	1	NO
Ammonium Nitrate	NO		NO	Ti-	NO

INTERNATIONAL REGULATIONS

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL/NDSL inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS: The components of this product are not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: See section 2.

16. OTHER INFORMATION

DATE/ SDS PREPARATION: May 6, 2019. DATE/ SDS REVISION: July 1, 2019.

CHANGE INDICATED: Reformatting of information; review and update of regulatory information.

DEFINITION OF TERMS AND ABBREVIATIONS:

- ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.
- SECTION 2: <u>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING</u>: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
- SECTION 3: CAS Number: Chemical Abstract Service Number, which is used by the American Chemical Society to uniquely identify a chemical.
- SECTION 5: NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (FI.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: FI.P. below 73°F and BP below 100°F. Class IB: FI.P. below 73°F and BP at or above 100°F. Class II: FI.P. at or above 100°F and below 140°F. Class IIIA: FI.P. at or above 140°F and below 200°F. Class IIIB: FI.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard
- SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL!: Short-Term Exposure Limit (15-minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. Note: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit.
- SECTION 9: pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition.

 UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.
- SECTION 11: CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to assess the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.
- SECTION 13: RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.
- SECTION 15: CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). TSCA: Toxic Substances Control Act. The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. DSL/NDSL: Canadian Domestic Substances and Non-Domestic Substances Lists.

ODORLOS HOLDING TANK TREATMENT

VALTERRA PRODCTS, LLC Page 6 of 6

SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the American National Standards Institute (Z400 1, 1998), U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals. Refer to Section 16 of this document for the definition of terms and abbreviations.

1. PRODUCT IDENTIFICATION

PRODUCT:

ODORLOS HOLDING TANK TREATMENT

PRODUCT CODE:

V77000,V77001,V77002,V77003,V77004,V77010,V77011,V77012,V77020.

PRODUCT USE:

Vehicle Toilet Maintenance

USES ADVISED AGAINST:

Any off-label use.

MANUFACTURER/

SUPPLIER/DISTRIBUTOR:

Valterra Products, LLC

ADDRESS:

15230 San Fernando Mission Blvd.; Suite 107

Mission Hills, CA 91345

BUSINESS PHONE #: EMERGENCY PHONE #:

818-898-1671

CHEMTREC:1-800-255-3924; 1-703-527-3887

These products are sold to consumers in containers of relatively small volume. This SDS has been developed to address safety concerns affecting those individuals working in warehouses and other places where large numbers of these containers are stored, as well as those affecting potential users of this product in industrial /occupational or manufacturing settings.

2. HAZARD IDENTIFICATION

GHS HAZARD CLASSIFICATION: Eye Damage/Irritation (Category 1); Skin Corrosion/Irritation (Category 2); Acute toxicity – Oral (Category 4).





LABELING:

- Pictogram: See above.
- Signal Word: DANGER!
- Hazard Statement: H318: Causes serious eye damage. H315: Causes skin irritation. 302: Harmful if swallowed.
- Precautionary Statements:
 - o PREVENTION: P261: Avoid breathing dust or particulates. P264: Wash all exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear gloves and eye protection.
 - o RESPONSE: P305 + P351 + P338: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician. P302 + P352: IF ON SKIN: Wash with plenty of water. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P362: Take off contaminated clothing and wash before reuse. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330: Rinse mouth.
 - o DISPOSAL: P501: Dispose of in accordance with local/regional regulations.

ODORLOS HOLDING TANK TREATMENT VALTERRA PRODCTS, LLC Page 1 of 6

2. HAZARD IDENTIFICATION (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health		٠.	ś	2
Flammability			Ī	0
Physical Hazard	***		. 1	0

HMIS Personal Protective Equipment Rating: Occupational Use situations: B - Safety **Protective Equipment** glasses and gloves

HAZARDOUS NOT OTHERWISE CLASSIFIED:

Aquatic Toxicity Classification: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION	W/W%
Calcium Nitrate	10124-37-5	Eye Damage (Category 1); Acute toxicity – Oral (Category 4)	>= 30 - < 50
Ammonium Nitrate	6484-52-2	Oxidizing solids (Category 3); Skin irritation (Category 2); Eye irritation (Category 2A)	>= 15 - < 30
None of the other consi present in the mixture.	lituents of this pro	duct contribute health or physical hazard at the concentrations	Balance

4. FIRST AID MEASURES

FIRST AID:

- Eyes: Hold contaminated eyes open and flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention promptly.
- Skin: Flush area with warm, running water. Continue rinsing with water for at least 15 minutes, if any evidence of redness or irritation occurs. Seek medical attention if skin irritation persists.
- Inhalation: Obtain fresh air. If necessary, blow hose.
- Ingestion: If it is accidentally ingested, rinse mouth. Contact professional medical personnel or the local poison control center for additional guidance.

ACUTE HEALTH EFFECTS:

- Eyes: Causes serious eye damage. Prolonged contact can cause chemical burns.
- Skin: Causes skin irritation.
- Inhalation: May cause irritation of membranes of nose, mouth, throat if dusts or particulates are inhaled.
- Ingestion: Harmful if swallowed. In the event this product is swallowed, serious irritation of the nose, throat, and digestive tract can occur. Ingestion may cause nausea, vomiting, and diarrhea. Chemical burns are possible.

CHRONIC HEALTH EFFECTS: None reported.

TARGET ORGANS: Skin, eyes.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Conditions affecting the target organs can be aggravated by overexposure to the product.

5. FIRE-FIGHTING MEASURES

NFPA FLAMMABILITY CLASSIFICATION: Not flammable. See symbol to right.

RECOMMENDED FIRE EXTINGUISHING MEDIA: Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, or any other.

UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

UNUSUAL HAZARDS IN FIRE SITUATIONS: When involved in a fire, this material may produce very irritating vapors and toxic gases (e.g., calcium compounds and nitrogen oxides).



ODORLOS HOLDING TANK TREATMENT

VALTERRA PRODCTS, LLC Page 2 of 6

RECOMMENDATIONS TO FIREFIGHTERS: Wear Self Contained Breathing Apparatus and full protective equipment for fire response. Move containers from fire area if it can be done without risk to personnel. Contaminated equipment should be rinsed thoroughly with water before returning to service.

6. ACCIDENTAL RELEASE MEASURES

RESPONSE TO INCIDENTAL RELEASES: Wear gloves and safety glasses when cleaning-up spills.

RESPONSE TO NON-INCIDENTAL RELEASES: As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets of product) by evacuating the impacted area and contacting appropriate emergency personnel.

• Specific Procedures: In the unlikely event of a multi-container release of the product, with no other hazardous condition in the area, the use of an air-purifying respirator with high efficiency particulate air filter, face-shield, safety glasses, and double gloves (e.g. nitrile over latex gloves), and body protection is recommended if mists/sprays could be generated during clean-up.

RESPONSE PROCEDURES FOR ANY RELEASE: Use a damp sponge/polypad to carefully cleanse the contaminated area or items. If appropriate, further clean the contaminated area and equipment with a soap and water solution, followed by a water rinse.

SPILL RESPONSE EQUIPMENT: Polypad or other absorbent material, if needed.

ENVIRONMENTAL PRECAUTIONS: Avoid response actions that can cause a release of a significant amount of the substance into the environment.

REFERENCES TO OTHER SECTIONS:

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

7. HANDLING AND STORAGE

HYGIENE PRACTICES: Keep out of reach of children. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of aerosols, mists, or sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up any spilled product immediately.

HANDLING RECOMMENDATIONS: Avoid skin contact when handling.

INCOMPATIBILITIES: See Section 10 (Stability and Reactivity).

STORAGE RECOMMENDATIONS: Ensure all containers are correctly labeled. Store container in cool, dry place away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity).

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures).

SPECIFIC END USES: Vehicle cleaning and maintenance.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

U.S. NATIONAL EXPOSURE LIMITS: There are no airborne occupational exposure limits that have been established for components of this product listed in Section 3.

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

ENGINEERING CONTROLS: Use this product in well-ventilated environment.

RESPIRATORY PROTECTION: None needed under routine circumstances of use.

HAND PROTECTION: Rubber, latex, or neoprene gloves should be used when prolonged contact is anticipated. EYE PROTECTION: Splash goggles or safety glasses with side shield are recommended if aerosols, mists,

splashes or sprays will be generated during use.

BODY PROTECTION: None needed under typical situations of use or handling.

ODORLOS HOLDING TANK TREATMENT VALTERRA PRODCTS, LLC Page 3 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid and Solid (granule).

COLOR: Colorless.
ODOR: Odorless.

pH: Approximately 5-7 (140 g/L solutions). BOILING POINT: Approximately 100 °C (212 °F).

MELTING POINT: -4 - 0 °C (25 - 32 °F) REFRACTIVE INDEX: Not determined.

VISCOCITY: Not determined. FLASH POINT: Not applicable.

LOWER EXPLOSIVE LIMIT (LEL): Not applicable. UPPER EXPLOSIVE LIMIT (UEL): Not applicable. AUTOIGNITION TEMPERATURE: Not applicable.

VAPOR PRESSURE: Not determined.
VAPOR DENSITY (air = 1): Not determined.

DENSITY: 1.52 g/cm³@ 25 °C (77 °F)

EVAPORATION RATE (water = 1): Not determined.

COEFFICIENT OIL/WATER DISTRIBUTION (PARTITION COEFFICENT): Not established.

SOLUBILITY: > 100 G/L.

EXPLOSIVE PROPERTIES: Not applicable.

OXIDIZING PROPERTIES: The oxidizing potential of Ammonium Nitrate is reduced upon dilution, but can still cause some oxidization, especially upon

prolonged contact,

VOLATILE ORGANIC COMPOUNDS: Not

determined.

10. STABILITY AND REACTIVITY

RELATIVE STABILITY (AT STANDARD TEMPERATURES AND PRESSURES): Normally stable.

INCOMPATIBILITIES: Alkalis, combustible materials, reducing materials, organic materials, acids.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS CHEMICAL DECOMPOSITION PRODUCTS: Products of thermal decomposition include very irritating vapors and toxic gases (e.g., calcium compounds nitrogen oxides).

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals.

11. TOXICOLOGY INFORMATION

ACUTE TOXICITY:

PRODUCT ACUTE TOXICITY ESTIMATES:

ATE (Oral) > 1000 - < 2,000 mg/kg ATE (Dermal) >2000 mg/kg

• COMPONENT TOXICOLOGY DATA: The following data are available for components of this product.

CALCIUM NITRATE

LD50 (oral, rat) = 500 mg/kg LD50 (skin, rat): 200-5000 mg/kg AMMONIUM NITRATE

LD50 (oral, rat) = 2,950 mg/kg LD50 (skin, rat) > 5000 mg/kg

- **DEGREE OF IRRITATION:** Contact with this product can cause irritation to skin and serious eye damage. See Section 4 (First Aid Measures) for more details.
- REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE: See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details. t

Eyes

Causes serious eye damage.

Skin Inhalation

Causes skin irritation

Ingestion

May cause irritation of membranes of nose, mouth, throat if mists, aerosols, or sprays are inhaled. Harmful is swallowed. May cause serious irritation of the mouth, throat, and itssues of the digestive

system. Chemical burns are possible.

CHRONIC TOXICITY:

• CARCINOGENICITY STATUS: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency

CHEMICAL	IARC	NTP	NIOSH	OSHA	OTHER
CALCIUM NITRATE	NO	NO.	NO	NO	NO
AMMONIUM NITRATE	NO	NO	NO	NO	NO

• REPRODUCTIVE TOXICITY INFORMATION: This product is not known to cause any adverse effect on the human reproductive system.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.

ODORLOS HOLDING TANK TREATMENT VALTERRA PRODCTS, LLC Page 4 of 6

11. TOXICOLOGY INFORMATION

- MUTAGENIC EFFECTS: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable.
- ASPIRATION HAZARD: Not applicable.

12. ECOLOGICAL INFORMATION

TOXICITY TO TERRESTRIAL LIFE: Based on available data, this product may be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.

TOXICITY TO AQUATIC LIFE Based on available data, this product may be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.

AQUATICTOXICOLOGY DATA: The following data are available for components of this product.

CALCIUM NITRATE

LC50 (Fish) = 1,378 mg/l, Fresh water, 96 hours LC50 (Bluegill) = 2,400 mg/l, Fresh water, 4 days LC50 (Daphnia) 490 mg/l, Fresh water, 48 hours EC50 (Algae) > 1,700 mg/l, Salt water, 10 days

AMMONIUM NITRATE

LC50 (Fish) = 447 mg/l, Fresh water, 48 hours EC50 (Daphnia) = 490 mg/l, Fresh water, 48 hours EC50 (Algae) = 1,700 mg/l, Salt water, 10 days

MOBILITY, PERSISTENCE, AND DEGRADABILITY: This product is anticipated to be mobile in soil. It is not anticipated to persist in the environment. Good hygiene practices should be implemented to prevent all accidental releases to the environment.

BIOACCUMULATION AND BIOCONCENTRATION POTENTIAL: It is not anticipated that this product will bioaccumulate or bioconcentrate significantly in the environment.

13. DISPOSAL CONSIDERATIONS

WASTE HANDLING RECOMMENDATIONS: Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, and the applicable Canadian standards. EPA RCRA WASTE CODE: Not applicable.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

PROPER SHIPPING NAME:

Not hazardous, per US DOT regulations.

HAZARD CLASSIFICATION:

Not applicable.

UN/NA IDENTIFICATION NUMBER:

Not applicable.

PACKING GROUP:

Not applicable.

LABEL:

Not applicable.

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (2016): Not applicable.

OTHER PERTINENT TRANSPORTATION REGULATIONS:

MARINE POLLUTANT STATUS: No component is designated as a DOT Marine Pollutant.

CANADIAN TRANSPORTATION INFORMATION: This product is NOT regulated by Transport Canada as dangerous goods under Canadian transportation standards.

IATA DESIGNATION: This product is NOT regulated as dangerous goods by the International Air Transport Association.

IMO DESIGNATION: This product is NOT regulated as dangerous goods by the International Maritime Organization. See previous information for shipping information

15. REGULATORY INFORMATION

OTHER IMPORTANT U.S. REGULATIONS

CERCLA REPORTING REQUIREMENTS: Not applicable

SARA SECTION 311/312 FOR PRODUCT: Eye Damage/Irritation; Skin Corrosion/Irritation; Acute Toxicity

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory

CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: No component of this product is known to the State of California to cause cancer or other reproductive harm.

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VALTERRA PRODCTS, LLC Page 5 of 6

SAFETY DATA SHEET

July 1, 2019

15. REGULATORY INFORMATION (Continued)

SARA REPORTING REQUIREMENTS: The following reporting requirements are applicable to the components of this product:

CHEMICAL	SECTION 302 (40 CFR 355 Appendix A)	SECTION 304 (40 CFR Table 302,4)	SECTION 313 (40 CFR 372,65)
Calcium Nitrate	NO	NO	NO
Ammonium Nitrate	NO	NO	NO

INTERNATIONAL REGULATIONS

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL/NDSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS: The components of this product are not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: See section 2.

16. OTHER INFORMATION

DATE/ SDS PREPARATION: May 6, 2019.

DATE/ SDS REVISION: July 1, 2019.

CHANGE INDICATED: Reformatting of information; review and update of regulatory information.

DEFINITION OF TERMS AND ABBREVIATIONS:

- ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.
- SECTION 2: <u>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING</u>: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
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 in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal.
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NAPA® PREMIUM CONVENTIONAL S	SAE 10W-30 N	MOTOR OIL	 		sion:
NP75130					
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29 CFR 1910.1200 (OSHA HazCom 2	012)				
SECTION 1. PRODUCT AND COMPA	NY IDENTIFI	CATION			
Product identifier					
Trade name ;	NAPA® F	I PREMIUM CO	NVENTIONAL SAE	10W-30	
· -	MOTOR		,		
Relevant identified uses of the si	ubstance or r	nixture and u	ıses advised again:	st	
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Details of the supplier of the sa	rety data	Emergency 1-800-VALV	telephone number		
Valvoline LLC					
3499 Blazer Parkway			Information Number	er	
Lexington, KY 40509 United States of America (USA)		1-800-TEAN	IVAL		
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GHS Classification This material is not considered hat (HazCom 2012). GHS label elements This material is not considered hat (HazCom 2012).					
Other hazards					
None known.		1			
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SECTION 3. COMPOSITION/INFORM	ATION ON I	GREDIENTS	•		
Substance / Mixture :	Mixture				
•					
Hazardous components		ļ			
Chemical name	CAS-No.	 	Classification	Concentration	n (%)
Benzenesulfonic acid, C10-60-	90194-32-4		Eye Irrit, 2A; H319	6.225	(10)
alkyl derivs., sodium salts				[]	
HYDROTREATED LIGHT	64742-55-8	3	Asp. Tox. 1; H304	2.8117	
PARAFFINIC DISTILLATE			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MO	TOR OIL Version: 1.2
NP75130	

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

: Remove contact lenses.

Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

	II-			Page
	volir	L.	Rev	rision Date: 09/28/20
FETY DATA SHEET			1.01	Print Date: 10/3/20
			- s	DS Number: R01708
PA® PREMIUM CONVENTIONAL	SAE 10W-30 MOTO	ROIL		Version:
75130			<u> </u>	1
Hazardous combustion products	: carbon dioxide an	d carbon mo	onoxide	
Specific extinguishing methods	: Product is compat	ible with sta	indard fire-fighting a	gents.
	Product is compa	ible with sta	andard fire-fighting a	gents.
Further information	: Standard procedu	re for chem	ical fires.	
	Standard procedu	re for chem	ical fires.	
Special protective equipment for firefighters	: In the event of fire	, wear self-	contained breathing	apparatus.
ECTION 6. ACCIDENTAL RELEA	ASE MEASURES		· · · · · · · · · · · · · · · · · · ·	
Personal precautions, protective equipment and emergency procedures	: Persons not wear from area of spill	ing protectiv until clean-u	e equipment should p has been complet	be excluded ed.
Environmental precautions	: Prevent further le	akage or sp	illage if safe to do so).
Methods and materials for containment and cleaning up	acid binder, unive	rsal binder,	material (e.g. sand, sawdust). ainers for disposal.	silica gel,
Other information	: Comply with all a	oplicable fe	deral, state, and loca	al regulations.
ECTION 7. HANDLING AND STO	DRAGE			
Advice on safe handling	: Smoking, eating a application area. For personal prot		should be prohibite section 8.	d in the
Materials to avoid	: No materials to b	e especially	mentioned.	
SECTION 8. EXPOSURE CONTR	1	OTECTION		_
Components with workplace	control parameters		Control	 Posis
Components	(F	alue type orm of posure)	Control parameters / Permissible concentration	Basis

-			
VUI	IIL		
		F	Revision Date: 09/2
			Print Date: 10 SDS Number: R0
L SAE 10W-30 N	MOTOR OIL		Vers
		<u> </u>	
64742-55-8	TWA	5 mg/m3 Mist	 OSHA Z-1
	TWA	5 mg/m3	ACGIH
	TWA	5 mg/m3	OSHA P0
1.	TWA	5 mg/m3	NIOSH REL
 	ST	10 mg/m3	NIOSH REL
-	PEL	5 mg/m3	CAL PEL
CAS-No.			
	Ш		
exist, provid exhaust) ver guidelines (i	e sufficient me tilation to ma [applicable) c	echanical (general an intain exposure belov r below levels that ca	d/or local v exposure
nt			
	respiratory pi	rotective equipment n	ormally
	}		
		al conditions of use. Naterial could be mister	
proof safety into eyes. : Wear as ap Safety shoe	goggles if ma propriate: s		d or splashed
proof safety into eyes. : Wear as application of the safety shoe wear resistant supplier).	goggles if ma propriate: s	aterial could be misted	d or splashed
proof safety into eyes. : Wear as application of the safety shoe wear resistant supplier).	goggles if ma propriate: s ant gloves (co ustrial hygien	aterial could be misted	d or splashed
proof safety into eyes. : Wear as ap Safety shoe Wear resists supplier). : General ind	goggles if ma propriate: s ant gloves (co ustrial hygien	aterial could be misted	d or splashed
proof safety into eyes. : Wear as applicate Safety shoe Wear resistate supplier). : General ind	goggles if ma propriate: s ant gloves (co ustrial hygiend	aterial could be misted	d or splashed
	out workplace of CAS-No. 90194-32-4 : General root conditions of exist, provide exhaust) ver guidelines (if suspected of the conditions of the conditions of exhaust).	AL SAE 10W-30 MOTOR OIL 64742-55-8	AL SAE 10W-30 MOTOR OIL 64742-55-8

4/11

: No data available

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Melting point/freezing point

: No data available

Boiling point/boiling range

: No data available

Flash point

: > 199 °C

Method: Cleveland open cup

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: 0.0133333 hPa (21.11 °C)

Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.8686 g/cm/3 (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: 70 mm2/s (40 °C)

Oxidizing properties

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability -

: Stable under recommended storage conditions.

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Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: No skin irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

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ID75400	
IP75130	
Not classified based on available information. STOT - repeated exposure Not classified based on available information. Aspiration toxicity Not classified based on available information. Product: No aspiration toxicity classification	
Components: HYDROTREATED LIGHT PARAFFINIC DISTILLATE: May be fatal if swallowed and enters airways.	
Further information <u>Product:</u> Remarks: No data available	
SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity Product: Ecotoxicology Assessment Acute aquatic toxicity : Not classified based on ava	ilable information.
Chronic aquatic toxicity : Not classified based on available.	ilable information.
Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available Product: Additional ecological : No data available information	
SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods	
General advice : Dispose of in accordance w federal regulations.	rith all applicable local, state and
Contaminated packaging : Empty remaining contents.	
SECTION 14. TRANSPORT INFORMATION	
International transport regulations	

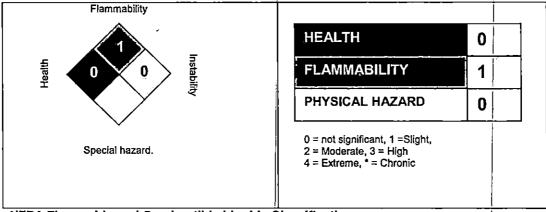
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REGULATION				 						
ID NUMBER P	ROPER SHIPPI	NG NAME		AZARD ASS			IDIARY RDS	PACKING GROUP	P	ARINE OLLUTANT / TD. QTY.
U.S. DOT - ROAD				_				-		
No.	ot dangerous go	oods								
CFR_RAIL_C	·									
No.	ot dangerous go	ods								
<u> </u>	<u> </u>				_				-	
U.S. DOT - INLAND V				<u> </u>	_		<u>-</u>			
	ot dangerous go	ods								
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TDG_ROAD_C No	ot dangerous go	ods			_					
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TDG_INWT_C				<u>.</u>						
No	ot dangerous go	ods								_
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INTERNATIONAL MA	ARITIME DANG ot dangerous go		DS							
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INTERNATIONAL AU	D TDANSBORT			CARCO					-	
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	ot dangerous go								-	
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ORM = ORM-D, CBL	. = COMBUSTI	BLE LIQUID								
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Marine pollutar	IL	no								
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AFETY DATA SHEET			<u></u>	n Date: 09/28/20	
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APA® PREMIUM CONVENTIO	NAL SAE 10W-30 MC	TOR OIL	300	Version:	
P75130					
				-	
Dangerous goods descriptions (i exceptions that can be applied. hipment.	indicated above) ma Consult shipping doc	y not reflect quar uments for descri	tity, end-use or region ptions that are specific	n-specific to the	
SECTION 15, REGULATORY IN	FORMATION				
SARA 311/312 Hazards	: No SARA Haz	ards			
SARA 313	known CAS กู่เ	imbers that exceed	any chemical compone ed the threshold (De N SARA Title III, Section	/linimis)	
California Prop 65		rnia to cause car	ns a chemical known ocer. -20-3	to the	
The components of this p TSCA	roduct are reported : On TSCA Inve		inventories:		
DSL.	: All component	s of this product	are on the Canadian [)SL	
AICS	: On the invent	ory, or in complia	nce with the inventory		
ENCS	: Contact yours	ur sales representative for additional information.			
KECI	: On the invent	ory, or in complia	 nce with the inventory		
PICCS			nce with the inventory		
		•	,		
IECSC	: Low volume e	•			
IECSC	: q (quantity res	stricted)			
Inventories AICS (Australia), DSL (Car (Japan), KECI (Korea), NZ	ada), IECSC (China) oC (New Zealand), P	, REACH (Europe ICCS (Philippine	ean Union), ENCS (Ja s), TCSI (Taiwan), TS	pan), ISHL CA (USA)	
SECTION 16. OTHER INFORM	ATION	· · · ·			
Further information Revision Date: 09/28/2016			1		
NFPA:		HMIS III:			

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NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H304

May be fatal if swallowed and enters airways.

H319

Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

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IMDG: International Maritime Code for Dangerous Goods ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development OEL: Occupational Exposure Limit

P-Statement : Precautionary Statement PBT: Persistent, Bioaccumulative and Toxic PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

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FETY DATA SHEET		Rev	ision Date: 06/07/2
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voline™ DEX/MERC Automatic Transmission Frademark, Valvoline or its subsidiaries, regis Intries I153			Version:
		<u> </u>	-
CFR 1910.1200 (OSHA HazCom 2012) CTION 1. PRODUCT AND COMPANY IDEN	ITIFICATION		
Product identifier	İ		
Trade name : Valvo	oline™ DEX/MER	C Automatic Transmissi	on Fluid
TM Te	endomoris Volvolin	o or ito pubblication rea	niada aa al in
	ademark, valvolin us countries	ne or its subsidiaries, reg	jistered in
· · · · · · · · · · · · · · · · · · ·			
Details of the supplier of the safety data	Emaras	telephone number	
sheet		OLINE (1-800-825-8654	4)
Valvoline LLC	li i	•	"],
100 Valvoline Way		Information Number	
Lexington, KY 40509 United States of America (USA)	1-800-1 EAN	/IVAL (1-800-832-6825)	
1-800-TEAMVAL (1-800-832-6825)	Product Infe	ormation	
	1-800-TEAM	/IVAL (1-800-832-6825)	
	T i		 -
CTION 2. HAZARDS IDENTIFICATION			
010 01 10 11			
GHS Classification This material is not considered hazardous u	inder the OSHA F	Hazard Communication (Standard
(HazCom 2012).	inder the OoriA1	iazaid Communication (Januaru
GHS label elements			
This material is not considered hazardous t	under the OSHA F	lazard Communication (standard
(HazCom 2012).			
Other hazards			
None known.			
ECTION 3. COMPOSITION/INFORMATION O	N INCOEDIENTS		1
OHOR S. SOME OSHIOMMEONNAHON C	"A MACKEDIEN IS	•	
Substance / Mixture : Mixture			
Hazardous components			
	0.	Classification	Concentration (%)
Chemical name CAS-No		This material is not	>=90.00 - <=
Chemical name CAS-No DISTILLATES (PETROLEUM), 64742-	54-7		
Chemical name CAS-No DISTILLATES (PETROLEUM), HYDROTREATED HEAVY	54-7	considered hazardous	100.00
Chemical name CAS-No DISTILLATES (PETROLEUM), 64742-	54-7	considered hazardous under the OSHA	
Chemical name CAS-No DISTILLATES (PETROLEUM), HYDROTREATED HEAVY	54-7	considered hazardous	

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Valvoline™ DEX/MERC Automatic Transmission Fluid ™ Trademark, Valvoline or its subsidiaries, registered in various countries 798153	Version: 1.5

	1	2012).	
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	>=10.00 - < 15.00
MINERAL OIL		This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>=1.50 - < 5.00
METHACRYLATE COPOLYMER		Eye irrit. 2A; H319	>=1.50 - < 5.00

SECTION 4. FIRST AID MEASURES

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

: Remove contact lenses. Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral qil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current

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workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

acne

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstance's and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbon's

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL' RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

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Keep in suitable, closed containers for disposal.

Other information

: Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Smoking, eating and drinking should be prohibited in the

application area.
For personal protection see section 8.

Materials to avoid

: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	'NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
	<u>.</u>	TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
MINERAL OIL		TWA	5 mg/m3	OSHA Z-1

se. However	Mist 5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	ACGIH ON OSHA P NIOSH F NIOSH F CAL PEI or normal ng conditions nd/or local	e: 11/24/ er: R020 Version
TWA TWA TWA PEL ventilation suse. However sufficient meaning applicable) of the suse of th	Mist 5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate the should be adequated by the should be adequated by	Print Date SDS Number ACGIH ON OSHA P NIOSH F CAL PEI or normal ng conditions nd/or local	e: 11/24/ er: R020 Version
TWA TWA TWA PEL ventilation suse. However sufficient meaning applicable) of the suse of th	5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	SDS Number ACGIH OSHA P NIOSH F CAL PEI or normal ng conditions nd/or local	POREL
TWA TWA TWA PEL ventilation suse. However sufficient meaning applicable) of the suse of th	5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	ACGIH ON OSHA P NIOSH F CAL PEI or normal ng conditions nd/or local	Version
TWA TWA ST PEL ventilation suse. However sufficient material attention to material applicable) of the suse.	5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	OSHA P OSHA P NIOSH F CAL PEI or normal ng conditions nd/or local	REL
TWA TWA ST PEL ventilation suse. However sufficient material attention to material applicable) of the suse.	5 mg/m3 Inhalable fracti 5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	OSHA P OSHA P NIOSH F CAL PEI or normal ng conditions nd/or local	REL
PEL ventilation suse. However sufficient management applicable) of the sum o	5 mg/m3 Mist 5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	OSHA P NIOSH F NIOSH F CAL PE	REL
PEL ventilation suse. However sufficient management applicable) of the second superior of	5 mg/m3 Mist 10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	ORL PEI	REL
PEL ventilation s use. However sufficient me applicable) o	10 mg/m3 Mist 5 mg/m3 particulate should be adequate ter, if unusual operaticechanical (general alintain exposure belo	CAL PE	
ventilation s use. However sufficient me lation to ma applicable) o	particulate should be adequate ter, if unusual operatiechanical (general alintain exposure belo	or normal ng conditions nd/or local	Ĺ
se. However sufficient me lation to ma applicable) o	er, if unusual operati echanical (general al intain exposure belo	ng conditions nd/or local	
	rotective equipment	normally	
	al conditions of use. aterial could be miste		
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strial hygiene	e practice.		
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Boiling point/boiling range

: No data available

Flash point

: 394 - 480 °F / 201 - 249 °C

Method: Cleveland open cup

Evaporation rate

: >1

Ethyl Ether

Flammability (solid, gas)

: No data available

Upper explosion limit

: 6 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit

: 1 %(V)

GLP: Calculated Explosive Limit

Vapour pressure

: 0.0133333 hPa (21.11 °C)

Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.862 g/cm³ (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: ca. 43 mm/2/s (40 °C)

Oxidizing properties

ł

: No data available

SECTION 10, STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

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Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact

Eye Contact

Ingestion

Acute toxicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Acute oral toxicity

: LD50 (Rat): > 15 g/kg

Acute dermal toxicity

: LD50 (Rabbit): > 5 g/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Result: Slight, transient irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

MINERAL OIL:

Result: Slight, transient irritation

METHACRYLATE COPOLYMER:

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

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DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Result: No eye irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

MINERAL OIL:

Result: Slight, transient irritation

METHACRYLATE COPOLYMER:

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity ...

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

No aspiration toxicity classification

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

No component of this product present at levels greater man or

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equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity

: Not classified based on available information.

Chronic aquatic toxicity

: Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Toxicity to fish

: LL50 (Fish): > 100 mg/l Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Aquatic invertebrates): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae

: EL50 (Algae, algal mat (Algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

Toxicity to daphnia and other

aquatic invertebrates

: NOEC (Aquatic invertebrates): 10 mg/l

(Chronic toxicity)

Persistence and degradability

Components:

No data available

Bioaccumulative potential

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-

: log Pow: Expected > 7

octanol/water

No data available Mobility in soil

Components:

No data available

Other adverse effects

No data available

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						SD	S Nun		020029
	MERC Automatic Tra alvoline or its subsidia		l l	us				ver	sion: 1.
Product: Additional of information		: No data a	vailable				:		
Compone	nts:						ŀ		
SECTION 13. D	ISPOSAL CONSIDE	RATIONS		-					
Disposal r General ad	lvice	: Dispose of federal re		nce with a	all applical	ble local, s	tate a	nd	
oorna	ted packaging	: Empty rer	maining cont	tents.			-		
			maining cont	tents.		-	- - 		
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KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory,

IECSC : On the inventory, or in compliance with the inventory,

TSCA : On TSCA inventory

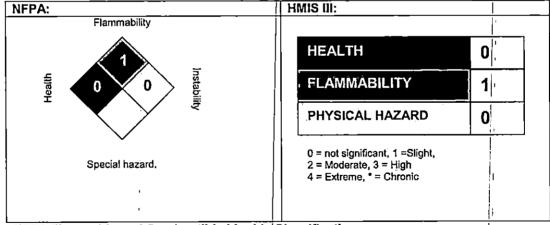
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H304

May be fatal if swallowed and enters airways.

H319

Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

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The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit P-Statement: Precautionary Statement PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

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NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration PMRA: Health Canada Pest Management Regulatory Agency RTK: Right to Know WHMIS: Workplace Hazardous Materials Information System

CTION 1: Identification			<u> </u>
1.1. Identification			
Product name	: RV Digest-It Holding Tank Trea		<u></u>
	substance or mixture and uses advise	ed against	
Use of the substance/mixture	RV Holding Tank Treatment		
1.3. Details of the supplier of the sa	fety data sheet		
Unique Manufacturing and Marketing		•	
5752 Lamar St.			
Arvada, CO 80002			
1.4. Emergency telephone number			_ <u></u>
Emergency number	720-798-6122		
SECTION 2: Hazard(s) identificat	tion	,	, ,
2.1. Classification of the substance			
GHS US classification			
Not classified			
Not classified			
2.2. Label elements			
GHS US labeling			
No labeling applicable			
2.3. Other hazards			
No additional information available			
I. Unknown acute toxicity (GHS I	IS)		<u> </u>
rvot applicable			
SECTION 3: Composition/Inform	lation on ingredients		
3.1. Substances			
Not applicable			<u> </u>
3.2. Mixtures			
Name	Product identifier	%	
Water	(CAS-No.) 7732-18-5	> 90	1
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3	Proprietary	
1,2-Propanediol	(CAS-No.) 57-55-6	Proprietary	i
Trisodium citrate dihydrate	(CAS-No.) 6132-04-3	Proprietary	
Proxel GXL	Mixture	Proprietary	
Subtilisins (proteolytic enzymes)	(CAS-No.) 9014-01-1	Proprietary	
Amylase, .alpha	(CAS-No.) 9000-90-2 (CAS-No.) 9012-54-8	Proprietary Proprietary	
Cellulase	(CAS-No.) 9012-34-6	Proprietary	
Lipase, triacylglycerol Kathon CG/ICP	Mixture	Proprietary	
Viable bacteria cultures	None	Proprietary	1
Fragrance	Mixture	Proprietary	1
SECTION 4: First aid measures		P 44	<u> </u>
4.1. Description of first aid measur		for this route of exposure	
First-aid measures after inhalation	: No specific first aid necessary		 ticentic agent
First-aid measures after skin contact		with soap and water, apply a topical ar	
First-aid measures after eye contact	: Flush with plenty of water for a persists.	at least 15 minutes, Seek medical advic	e ii iitiranon develoha oi
	F		
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First-aid measures after ingestion		eral glasses of water and induce vomiting. Obt out to an unconscious person.	ain medical attention.
. Most important symp	toms and effects, both acute and delayed		
Symptoms/injuries after inhalation	n : None under normal use.		
Symptoms/injuries after skin cont	eact : Prolonged or repeated ex open wounds or broken s	r posure may cause irritation. Bacterial infectior kin.	may occur through
Symptoms/injuries after eye cont	act : May cause redness and i	ritation.	
Symptoms/injuries after ingestion	n : May cause nausea, vomi	ting and diarrhea if ingested.	<u> </u>
4.3. Indication of any imm	ediate medical attention and special treat	ment needed	
No additional information availab	le		
SECTION 5: Firefighting	measures		
5.1. Extinguishing media			
Suitable extinguishing media	: Use extinguishing media	appropriate for surrounding fire.	
Unsuitable extinguishing media	: None.		
5.2. Special hazards arisi	ng from the substance or mixture		
Fire hazard	: None known.		
Explosion hazard	: None known.		
5.3. Advice for firefighters	S		
Protection during firefighting	: Firefighters should wear	full protective gear.	
SECTION 6: Accidental r	<u> </u>		_
6.1. Personal precautions	, protective equipment and emergency pr	ocedures	
6.1.1. For non-emergency p	personnel		
No additional information availab	ele		
6.1.2. For emergency response	onders		
additional information availab	ale		
. Environmental preca	utions		
Avoid release to the environmen	t.		
6.3. Methods and materia	l for containment and cleaning up		
For containment	: If possible, stop flow of p	roduct.	
Methods for cleaning up	: Confine spill and soak up	with absorbent. Place in an approved contain	er and dispose in
	· ·	ate and federal regulations.	
6.4. Reference to other so	_ :		
No additional information availab	ole		
SECTION 7: Handling an			
7.1. Precautions for safe			
Precautions for safe handling	: Avoid eye and skin expo	sure. Wash thoroughly after handling. Keep ou I	it of reach of children.
	torage, including any incompatibilities		
Storage conditions	: Store in a cool, dry place	Do not freeze. Keep container tightly closed	when not in use.
SECTION 8: Exposure c	ontrols/personal protection		
8.1. Control parameters			·
1,2-Propanediol (57-55-6)		,	:
AIHA	WEEL TWA	10 mg/m³	·
Subtilisins (proteolytic enzyr	nes) (9014-01-1)	,	
ACGIH	ACGIH OEL Ceiling	0.00006 mg/m³	:.
NIOSH	NIOSH REL (STEL)	0.00006 mg/m³	
		_	
8.2. Exposure controls	, Name and the Land	and an distance of the second	
ppropriate engineering controls	·	mal product handling conditions.	
and protection	: Wear impervious gloves	to minimize skin contact.	
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Eye protection : Use safety glasses if splashing is likely.

Skin and body protection : Wear suitable working clothes.

`spiratory protection : None required under normal product handling conditions.

SECTION OF Physical and about all			
SECTION 9: Physical and chemical			*_ *
9.1. Information on basic physical and c	_		T
Physical state	: Liquid]
Appearance Color	: Translucent.		i
Odor	; None		
Odor threshold	: Fragrant		
	: No data available		
pH Malting point	: No data available	1	1
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		i
Flammability (solid, gas)	: No data available		1
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Miscible with water.		ļ
Partition coefficient n-octanol/water (Log Pow)	: No data available		
Auto-ignition temperature	: No data available		1
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
`Cosity, dynamic	: No data available		
plosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
9.2. Other information			1
No additional information available			
SECTION 10: Stability and reactivity	5.		<u>-</u>
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			<u> </u>
The product is stable at normal handling and sto	rage conditions		
•	Tago contantono.		
10.3. Possibility of hazardous reactions Will not occur.		<u> </u>	\
	·		
10.4. Conditions to avoid			
None.			
10.5. Incompatible materials			
None.			[]
10.6. Hazardous decomposition products	<u> </u>		
Not determined.			;
SECTION 11: Toxicological informat	ion	_	·
11.1. Information on toxicological effects			(
Acute toxicity	: Not classified		
	. NOT CIASSINEU	_	
ater (7732-18-5)			
D50 oral rat	> 90 ml/kg		
			I
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Safety Data Sheet Alcohols, C9-11, ethoxylated (68439-46-3) 1 D50 oral rat 1400 mg/kg TE US (oral) 1378 mg/kg 1,2-Propanediol (57-55-6) LD50 oral rat 20 g/kg LD50 dermal rabbit 20800 mg/kg ATE US (oral) 20000 mg/kg body weight ATE US (dermal) 20800 mg/kg body weight Subtilisins (proteolytic enzymes) (9014-01-1) LD50 oral rat 3700 mg/kg ATE US (oral) 500 mg/kg body weight Amylase, .alpha.- (9000-90-2) LD50 oral rat > 7500 mg/kg Skin corrosion/irritation : Not classified Not classified Serious eye damage/irritation Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified SECTION 12: Ecological information 12,1. Toxicity -,2-Propanediol (57-55-6) LC50 - Fish [1] 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 - Crustacea [1] > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) LC50 - Fish [2] 41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential 1,2-Propanediol (57-55-6) BCF - Fish [1] < 1 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Effect on the ozone layer : No additional information available SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Dispose of contents/container in accordance with local/regional/national/international regulations. SECTION 14: Transport information Pepartment of Transportation (DOT) 1 accordance with DOT ivot applicable 01/20/2022 EN (English US) 4/5

RV Digest-It Holding Tank Treatment

SECTION 15: Regulatory inform	iation		
1. US Federal regulations			
M.A., (7722 40 5)	<u> </u>		
Water (7732-18-5) Listed on the United States TSCA (Toxic	Substances Control Act invento	W.	
		y	===
Alcohols, C9-11, ethoxylated (68439-4			
Listed on the United States TSCA (Toxio			
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the Chemical Data Report	ing
1,2-Propanediol (57-55-6)			
Listed on the United States TSCA (Toxic	Substances Control Act) invento	<u></u>	
Subtilisins (proteolytic enzymes) (901	4-01-1)		
Listed on the United States TSCA (Toxic		v	
EPA TSCA Regulatory Flag		ubstance exempt from reporting under the Chemical Data Report	ing
	Rule, (40 CFR 711).		
Amylase, .alpha (9000-90-2)			
Listed on the United States TSCA (Toxic	Substances Control Act) invento	y	
EPA TSCA Regulatory Flag	XU - XU - indicates a s	ubstance exempt from reporting under the Chemical Data Report	ing
	Rule, (40 CFR 711).		
Cellulase (9012-54-8)			
Listed on the United States TSCA (Toxic			
EPA TSCA Regulatory Flag	XU - XU - indicates a s	ubstance exempt from reporting under the Chemical Data Report	ing
	Rule, (40 CFR 711).		
Lipäşe, triacylglycerol (9001-62-1)			
Listed on the United States TSCA (Toxic			
EPA TSCA Regulatory Flag		ubstance exempt from reporting under the Chemical Data Report	ting
;	Rule, (40 CFR 711).		
5.2. US State regulations			
o.r. ba out togalations	The state of the s		
1,2-Propanediol (57-55-6)			
U.S Minnesota - Hazardous Substanc	e List		
U.S New Jersey - Right to Know Haza U.S Pennsylvania - RTK (Right to Know	ardous Substance List	j	
U.S Pelinsylvania - KTK (Right to Kitch	ow) List		
SECTION 16: Other information		·	
SECTION, 16: Other ingormation		·	
This information is based as our current knowledge as	d is intended to describe the anduct for the r	umoses of health, safety and environmental requirements only. It should not therefore	be construe
quaranteeing any specific property of the product.	to negative the production are production and p		
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Safety Data Sheet

TOTION AS A LINE OF A LINE		-, -,	, .	
CTION 1: Identification				D
1,1. Identification				
Product name : RV To	oilet Cleaner			1
1.2. Relevant identified uses of the substance or	mixture and uses a	dvised against		
Use of the substance/mixture : Toilet	Cleaner			!
1.3. Details of the supplier of the safety data shee	et			
Unique Manufacturing and Marketing				
5752 Lamar St.				I
Arvada, CO 80002				1
1.4. Emergency telephone number				
Emergency number : 800-4	76-1608			ļ
			y	ł
SECTION 2: Hazard(s) identification	_	r	4.	
2.1. Classification of the substance or mixture				
GHS US classification				į
Not classified				
2.2. Label elements			Taxoahir.	
GHS US labeling				j
No labeling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
ECTION 3: Composition/Information on in	aradiánts	_		
	greaterits			
3.1. Substances				
Not applicable				
			T	
Name	Product identifie	·r	%	j
Water	(CAS-No.) 7732-18-5		> 90	
Acrylate copolymer	Proprietary		1-5	
Fatty acids, C12-18, methyl esters, sulfonated, sodium salts	(CAS-No.) 149458-07		1-5	
Sodium sulfate	(CAS-No.) 7757-82-6		1-5	Ì
Disodium carbonate	(CAS-No.) 497-19-8 (CAS-No.) 68937-84-		1-3	:
Fatty acids, C12-18, methyl esters Sulfuric Acid Mono-C10-16-alkyl esters sodium salts	Proprietary	0	Trade Secret	
	<u> </u>		Trade Secret	ļ
Viable Bacillus Bacteria	None			ļ
Preserving Agent 1	Proprietary		Trade Secret	
Preserving Agent 2	Proprietary		Trade Secret	
Buffering Agent 1	Proprietary		Trade Secret	1
Buffering Agent 2	Proprietary		Trade Secret	
C.I. Acid Blue 9, disodium salt	(CAS-No.) 3844-45-9		< 1	
SECTION / Electrical				
SECTION 4: First aid measures			A 040 W	
4.1. Description of first aid measures				
	· I	ssary for this route o		
First-aid measures after skin contact : In case of contact, wash area with soap and water, apply a topical antiseptic agent. First-aid measures after eye contact : Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or				
		r for at least 15 minu	ites, Seek medical	advice if irritation develops or
persi	313,			

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Page 1

First-aid measures after ingestion	 Give affected person sev Never give anything by n 	eral glasses of water and induce vorniting. Obt routh to an unconscious person.	ain medical attention.
. Most important symptoms and e	effects, both acute and delayed		
அmptoms/injuries after inhalation	: None under normal use.		
Symptoms/injuries after skin contact	: Prolonged or repeated ex open wounds or broken s	xposure may cause irritation. Bacterial infection skin.	may occur through
Symptoms/injuries after eye contact	: May cause redness and	rritation.	
Symptoms/injuries after ingestion	: May cause nausea, vom	iting and diarrhea if ingested.	
4.3. Indication of any immediate med	dical attention and special trea	tment needed	
No additional information available	I	,	1
SECTION 5: Firefighting measure			
5.1. Extinguishing media			
Suitable extinguishing media	: Use extinguishing media	appropriate for surrounding fire.	
Unsuitable extinguishing media	: None.		
5,2. Special hazards arising from the			
Fire hazard	: None known.		J
Explosion hazard	: None known.		1
		ļ	
5.3. Advice for firefighters	: Firefighters should wear	full protective gear	
Protection during firefighting	, Thenghiers should wear	ian protective gear.	<u> </u>
SECTION 6: Accidental release m	neasures		<u> </u>
6.1. Personal precautions, protectiv	e equipment and emergency p	rocedures	
6.1.1. For non-emergency personnel	·		
No additional information available			1
6.1.2. For emergency responders		1	
No additional information available			
2. Environmental precautions			
Avoid release to the environment.	<u></u>		The state of the s
			
6.3, Methods and material for conta	: If possible, stop flow of p	reduct	
Methods for cleaning up	•	p with absorbent, Place in an approved contain	ier and dispose in
wethous for cleaning up		tate and federal regulations.	ioi ana ampada iii
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storag			
			<u> </u>
7.1. Precautions for safe handling Precautions for safe handling	· Avoid eye and skin eyn	sure. Wash thoroughly after handling. Keep or	it of reach of children
	'	Sale: Wash thoroughly and haramig. Noop of	i
7.2. Conditions for safe storage, inc		D. and france Many and single the stored	when not in upo
Storage conditions	: Store in a cool, dry plac	e. Do not freeze. Keep container tightly closed	when not in use.
SECTION 8: Exposure controls/p	personal protection		
8.1. Control parameters			
No additional information available	, t		
8.2. Exposure controls			
Appropriate engineering controls	: None required under no	rmal product handling conditions.	
Hand protection	: Wear impervious gloves	to minimize skin contact.	
Eye protection	: Use safety glasses if sp	lashing is likely.	
Skin and body protection	: Wear suitable working of	l la	
Respiratory protection	: None required under no	rmal product handling conditions.	
- \			
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SECTION 9: Physical and chemical p	properties	-	· · · · · · · · · · · · · · · · · · ·
Information on basic physical and c	•		
ysical state	: Liquid		
Color	: Blue		
Odor	: None		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	; No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		ı
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Miscible with water.		
Partition coefficient n-octanol/water (Log Pow)	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: No data available	,	
Explosive properties	: No data available		
Oxidizing properties	: No data available		
2. Other information b additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			<u> </u>
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and sto	orage conditions.		
10.3. Possibility of hazardous reactions			[
Will not occur.			
10.4. Conditions to avoid	, , , , , , , , , , , , , , , , , , ,		
None.			
10.5. Incompatible materials			<u> </u>
None.			
	·		<u> </u>
10.6. Hazardous decomposition product	S. Company of the Com	1	<u> </u>
Not determined.			
SECTION 11: Toxicological informa	tion		-
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Water (7732-18-5)	· 11/ 4		
LD50 oral rat	> 90 ml/kg		
C.I. Acid Blue 9, disodium salt (3844-45-9)			
LD50 oral rat	> 2 g/kg		<u> </u>
	- Z 4)/(u		
Disodium carbonate (407-10-9)	- 2 g/kg		
Disodium carbonate (497-19-8)			
Disodium carbonate (497-19-8) LD50 oral rat	4090 mg/kg EN (English US)		3/5

SECTION 13: Disposal considerations		!			
12:1. Waste treatment methods		i			
oduct/Packaging disposal recommendations : Dispo	se of contents/conta	iner in accordance w	vith local/regiona	/national/i	international
SECTION 14: Transport information					
Department of Transportation (DOT)					
In accordance with DOT				ı	
Not applicable				1	
			,		
SECTION 15: Regulatory information		_			
15,1. US Federal regulations			***************************************		
Water (7732-18-5)	- .		-		
Listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory			1	
C.I. Acid Blue 9, disodium salt (3844-45-9)			, .,	:	
Listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory				-
Disodium carbonate (497-19-8)					
Listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory				
Fatty acids, C12-18, methyl esters, sulfonated, sodiu	m salts (149458-07	-1)		ī	
Listed on the United States TSCA (Toxic Substances Co				. 1	
EPA TSCA Regulatory Flag P - P	- indicates a comme	enced Premanufactur	e Notice (PMN)	substance	.
, Sodium sulfate (7757-82-6)					-
Listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory				
Fatty acids, C12-18, methyl esters (68937-84-8)				1	
Listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory			<u> </u>	
2. US State regulations					
C.I. Acid Blue 9, disodium salt (3844-45-9)					
U.S Massachusetts - Right To Know List				ĺ	·
Sodium sulfate (7757-82-6) U.S Massachusetts - Right To Know List				·	
U.S Pennsylvania - RTK (Right to Know) List			<u> </u>		
California -Proposition 65 The Acrylate copolymer in this product contains the follow maximum impurity levels of components;	ing chemical known	to the state of Califo	rnia to cause car	incer and/o	or birth defects based on the
Chemical	Product identifie	- · · · · · · · · · · · · · · · · · · ·	Quantity	I	
Ethyl accrylate	(CAS-No.) 140-88-5		< 1 PPM	1	
SECTION 16: Other information					•
This information is based on our current knowledge and is intended to descri- guaranteeing any specific property of the product.	be the product for the purp	oses of health, safety and e	nvironmental requirem	ents only. It s	should not therefore be construed as
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				1	
11/30/2022 EN (En	glish US)	-			5/5

CTION 1: Identification	· · · · · · · · · · · · · · · · · · ·		
1.1. Identification			
Product name	: Store-It		I
1,2. Relevant identified uses of the su	ubstance or mixture and uses	advised against	
Use of the substance/mixture	Holding Tank Cleaner		
1.3. Details of the supplier of the safe	etv data sheet		
Unique Manufacturing and Marketing			
5752 Lamar St.			i
Arvada, CO 80002			
·			
1.4. Emergency telephone number	720-798-6122		
Emergency number	720-750-0122		
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
GHS US classification			į .
Not classified			İ
2.2. Label elements			
GHS US labeling			
No labeling applicable			
rung			
2.3. Other hazards			
No additional information available		- 	
4. Unknown acute toxicity (GHS US	<u> </u>	<u> </u>	
rvot applicable		<u> </u>	. !
SECTION 3: Composition/Information	ition on ingredients	· .	
3.1. Substances			
Not applicable		 	
3.2. Mixtures			
Name	Product identif	er %	
Water	(CAS-No.) 7732-18-	5 > 90	
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46		
1,2-Propanediol	(CAS-No.) 57-55-6	Proprie	
Trisodium citrate dihydrate	(CAS-No.) 6132-04-	i	
Proxel GXL	Mixture	Proprie	
Subtitisins (proteolytic enzymes)	(CAS-No.) 9014-01-	 	
Amylase, .alpha,-	(CAS-No.) 9000-90-		
Cellulase	(CAS-No.) 9012-54-		
Lipases, triacylglycerol	(CAS-No.) 9001-62-		
Kathon CG/ICP Viable bacteria cultures	Mixture None	Proprie Proprie	
Fragrance	Mixture	Proprie	
SECTION 4: First aid measures			
4.1. Description of first aid measure			
First-aid measures after inhalation		essary for this route of exposu	•
First-aid measures after skin contact			oply a topical antiseptic agent.
First-aid measures after eye contact	 Flush with plenty of war persists. 	ter for at least 15 minutes. See	ek medical advice if irritation develops or
	peraioto.		,
	TN (C-2-1-1-10)		Page 1
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First-aid measures after ingestion		eral glasses of water and induce vomiting. Ob	tain medical attention.
Most important symp	toms and effects, both acute and delayed		
symptoms/injuries after inhalation			1
Symptoms/injuries after skin cont		rposure may cause irritation. Bacterial infectionskin.	n may occur through
Symptoms/injuries after eye conta	act : May cause redness and i	rritation.	
Symptoms/injuries after ingestion	: May cause nausea, vomi	ting and diarrhea if ingested.	1
•	ediate medical attention and special treat		<u>† </u>
No additional information available		illerit needed	
		<u> </u>	<u> </u>
SECTION 5: Firefighting	measures		<u> </u>
5.1. Extinguishing media			<u>., </u>
Suitable extinguishing media	: Use extinguishing media	appropriate for surrounding fire.	
Unsuitable extinguishing media	: None.		
5.2. Special hazards arisin	ng from the substance or mixture		
Fire hazard	: None known,		ı
Explosion hazard	: None known.		
(5.3. Advice for firefighters		<u> </u>	;
·····	: Firefighters should wear	full protective open	
Protection during firefighting	. Filenginers should wear	idii protective gear. 	
SECTION 6: Accidental r	elease measures		·
6.1. Personal precautions	, protective equipment and emergency pr	ocedures	· · · · · · · · · · · · · · · · · · ·
6.1.1. For non-emergency p			
No additional information availab			
6.1.2. For emergency respo			<u> </u>
ំា additional information availab	le		\
2. Environmental precau	utions		
Avoid release to the environment	l.		
6.3 Methods and materia	l for containment and cleaning up		
For containment	: If possible, stop flow of p	roduct	
Methods for cleaning up		o with absorbent. Place in an approved contain	ner and dispose in
mounded for eleganing ap		ate and federal regulations.	, -, -, -, -, -, -, -, -, -, -, -, -, -,
6.4. Reference to other se	ections	<u> </u>	
No additional information availab			· · · · · · · · · · · · · · · · · · ·
			-11
SECTION 7: Handling an		1	
7.1. Precautions for safe			
Precautions for safe handling	: Avoid eye and skin expo	sure. Wash thoroughly after handling. Keep o	ut of reach of children.
7.2. Conditions for safe s	torage, including any incompatibilities		
Storage conditions		Do not freeze. Keep container tightly closed	when not in use.
		,	
	ontrols/personal protection		
8.1. Control parameters			
1,2-Propanediol (57-55-6)			
AIHA	WEEL TWA	10 mg/m³	
Subtilisins (proteolytic enzyr	nes) (9014-01-1)		
ACGIH	ACGIH OEL Ceiling	0.00006 mg/m³	
	-	0.00006 mg/m³	
NIOSH	NIOSH REL (STEL)	0.0000 mg/m	
8.2. Exposure controls			
ppropriate engineering controls	: None required under no	rmal product handling conditions.	
and protection	: Wear impervious gloves	_	
· .arra presenter	. 11 dat importious glores		
11/12/2022	EN (English US)		2/5

LD50 oral rat

11/12/2022

: Use safety glasses if splashing is likely. Eye protection : Wear suitable working clothes. Skin and body protection : None required under normal product handling conditions. spiratory protection SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance Translucent. None Color Fragrant Odor No data available Odor threshold No data available pΗ Melting point No data available No data available Freezing point No data available **Boiling point** No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 °C Relative density No data available Miscible with water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic. No data available No data available scosity, dynamic plosion limits No data available Explosive properties No data available : No data available Oxidizing properties 9.2. Other information No additional information available SECTION 10: Stability and reactivity Reactivity 10.1. No additional information available Chemical stability The product is stable at normal handling and storage conditions. Possibility of hazardous reactions 10.3. Will not occur. 10.4. Conditions to avoid None. 10.5. Incompatible materials None. Hazardous decomposition products Not determined. SECTION 11: Toxicological information Information on toxicological effects 11.1. Acute toxicity : Not classified Water (7732-18-5)

> 90 ml/kg

EN (English US)

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Store-It Safety Data Sheet Alcohols, C9-11, ethoxylated (68439-46-3) D50 oral rat 1400 mg/kg TE US (oral) 1378 mg/kg 1,2-Propanediol (57-55-6) LD50 oral rat 20 g/kg LD50 dermal rabbit 20800 mg/kg ATE US (oral) 20000 mg/kg body weight ATE US (dermal) 20800 mg/kg body weight Subtilisins (proteolytic enzymes) (9014-01-1) LD50 oral rat 3700 mg/kg ATE US (oral) 500 mg/kg body weight Amylase, .alpha.- (9000-90-2) LD50 oral rat > 7500 mg/kg Skin corrosion/irritation : Not classified Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified SECTION 12: Ecological information Toxicity 1,2-Propanediol (57-55-6) LC50 - Fish [1] 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 - Crustacea [1] > 1000 mg/i (Exposure time: 48 h - Species: Daphnia magna [Static]) LC50 - Fish [2] 41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential 1,2-Propanediol (57-55-6) BCF - Fish [1] < 1 12.4. Mobility in soil No additional information available 12.5. Other adverse effects : No additional information available Effect on the ozone layer SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Not applicable 11/12/2022 EN (English US)

SECTION 15: Regulatory inform	nation		
.1. US Federal regulations		- 7, 5	<u> </u>
Water (7732-18-5)	р.	*	1
Listed on the United States TSCA (Toxic	Substances Control Act) inventor	у	
Alcohols, C9-11, ethoxylated (68439-4	(6-3)		4.3
Listed on the United States TSCA (Toxio		у	
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the Che	emical Data Reporting
1,2-Propanediol (57-55-6) Listed on the United States TSCA (Toxic	Substances Control Act) invento	v	
Subtilisins (proteolytic enzymes) (901			
Listed on the United States TSCA (Toxic			Lia-I Data Basarina
EPA TSCA Regulatory Flag	Rule, (40 CFR 711).	ubstance exempt from reporting under the Ch	emical Data Reporting
Amylase, .alpha (9000-90-2)	L		<u> </u>
Listed on the United States TSCA (Toxic			<u> </u>
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the Ch	emical Data Reporting
Cellulase (9012-54-8)			
Listed on the United States TSCA (Toxic		<u></u>	
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the Ch	emical Data Reporting
Lipase, triacylglycerol (9001-62-1)	- · · · · · · · · · · · · · · · · · · ·		1
Listed on the United States TSCA (Toxio		····	
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the Ch	emical Data Reporting
15.2. US State regulations			ļ
Tolar Octobro Toggicalono			
1,2-Propanediol (57-55-6)			
U.S Minnesota - Hazardous Substanc U.S New Jersey - Right to Know Haza U.S Pennsylvania - RTK (Right to Kno	ardous Substance List		
_ <u>-i</u> ī	-		
SECTION 16: Other information	٦³ " "		!
	d is inlended to describe the product for the p	urposes of health, safety and environmental requirements on	y. It should not therefore be construed:
guaranteeing any specific property of the product.			
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Sensor Cleaner

ECTION 1: Identification	ä		9 40	
1.1. Identification				
Product name : Sens	sor Cleaner			
1.2. Relevant identified uses of the substance o	r mixture and uses	advised against		
Use of the substance/mixture : Hold	ding tank sensor mai	Intenance		[
1.3. Details of the supplier of the safety data she	eet			
Unique Manufacturing and Marketing				
5752 Lamar St.				}
Arvada, CO 80002				1
1.4. Emergency telephone number				<u> </u>
	-798-6122	·		
Emorgandy named				<u> </u>
SECTION 2: Hazard(s) identification				*
2.1. Classification of the substance or mixture				
GHS US classification				1
Not classified				1
2.2. Label elements				
GHS US labeling				1
No labeling applicable				I
2.3. Other hazards				
No additional information available		İ		
2.4. Unknown acute toxicity (GHS US)				
ot applicable				
SECTION 3: Composition/Information on i	narédients		, , , ,	1
3.1. Substances				<u> </u>
Not applicable				
3.2. Mixtures		<u> </u>		
Name	Product identif	ier	%	
Water	(CAS-No.) 7732-18-	 	> 85	ļ
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46	!	Proprietary	İ
1,2-Propanediol	(CAS-No.) 57-55-6		Proprietary	ļ
Trisodium citrate dihydrate	(CAS-No.) 6132-04-	-3	Proprietary	
Proxel GXL	Mixture		Proprietary	
Subtilisins (proteolytic enzymes)	(CAS-No.) 9014-01-	-1	Proprietary	1
Amylase, .alpha	(CAS-No.) 9000-90	-2	Proprietary	
Cellulase	(CAS-No.) 9012-54-	-8	Proprietary	1
Lipase, triacylglycerol	(CAS-No.) 9001-62-	h	Proprietary	
Kathon CG/ICP	Mixture		Proprietary	
Viable bacteria cultures	None		Proprietary	
Fragrance	Mixture		<1	1
SECTION 4: First aid measures				
4.1. Description of first aid measures				
	specific first aid nec	essary for this route of	exposure.	
	•		vater, apply a topical a	ntiseptic agent.
First-aid measures after eye contact : Flus		I		ce if irritation develops or
First-aid measures after ingestion : Giv	e affected person s	everal glasses of water mouth to an unconsci		Obtain medical attention.
02/00/0002	Tuelfah LIDA		tonament t	<u> </u>
03/30/2022 EN (E	English US)	•		Page 1

Sensor Cleaner Safety Data Sheet

mptoms/injuries after inhalation : None under normal use. mptoms/injuries after skin contact : Prolonged or repeated exposure may cause irritation. Bacterial infection may occur through open wounds or broken skin. Symptoms/injuries after eye contact : May cause redness and imitation. Symptoms/injuries after ingestion : May cause nausea, vomiting and diarrhea if Ingested.							<u> </u>
Protonged or repeated exposure may cause inflation, Bacterial Infection open wounds or broken skin. Symptomatiquites after eye contact May cause referes and Inflation. May cause retries and Inflation. May cause retries and Inflation. May cause retries and Inflation. May cause retries and Inflation. Symptomatiquites after eye contact May cause retries and Inflation. Symptomatiquites after eye contact May cause retries and Inflation. Section 5 Fitterighting medical and special treatment proceed. No additional Information available SECTION 5 Fitterighting medical North North May cause retrieved as proposed for surrounding fire. Use extinguishing medical North North May cause retrieved in the process of the	4.2. Most important symp	toms and effects, b	oth acute and delayed	· · · · · · · · · · · · · · · · · · ·		1	
Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures after eye contact Symptoms/figures SECTION SY Fitter/fighting media Syntable extinguishing media Syntable exting	mptoms/injuries after inhalatio	••				'	
Symptomsfinjuries after Ingestion ; May cause nausea, workling and diarrhea if Ingested. 3.3. Indication of symptomediate medical attention and special treatment needed. No additional Information availabile SECTION 5: Firefighting media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media : None. 5.2. Special integrated integrated : None known. 5.2. Special integrated integrated : None known. 5.3. Advice for firefighting : Firefighters should wear full protective gear. SECTION 6: Accidental release measures 6.1. Personal processives, protective applicant and emergency, processures. 6.1.1. For non-emergency personnel No additional information available 6.2. Environmental precautions, protective applicant and emergency processures in a cool release to the environment. 6.3. Methods and material for containment and cleaning up. 6.4. Reference to other sections No additional information available 6.4. Confine spill and saak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. 6.4. Reference to other sections No additional information available 6.7. Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. 6.4. Reference to other sections No additional information available 8. SECTION 7: Handling and storage. 7.1. Presaddional formation available 8. Section 8: Exposure controls/personal protection 8. Control sparameters 7. Control parameters 7. Exposure controls/personal protection 8. Control parameters 7. Exposure controls Personal protection 8. Control parameters 7. Exposure controls 8. Exposure controls 8. Exposure controls 8. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposure controls 9. Exposur	/mptoms/injuries after skin con				ause irritation. Ba	cterial infection	may occur through
No additional information available SECTION 5: Fireflightling measures 5.1. Extinguishing media : Use extinguishing media : None. Suitable extinguishing media : None. Size Special hazards arising from the substance or instrure Fire hazard : None known. Special hazards arising from the substance or instrure Fire hazard : None known. Sa. Advice for fireflighters. Protection during fireflighting : Fireflighters should wear full protective gear. SECTION 6: Accidental release measures 6.1. For non-innergency personnel No additional information available 6.1.2. For emergency responders No additional information available 6.2. Environmental processitions oid release to the environment. (S.3. Methods and material for containment and cleaning up For containment Methods for cleaning up : Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. (S.4. Reference to other sections No additional information available SECTION 7: Harnelling and storage 7.3. Precautions for safe shortage (R.4. Conditions for safe shortage (R.4. Conditions for safe shortage (R.5. Conditions for safe shortage (R.6. Methods and material for containment and observance of the safe shortage (R.6. Conditions for safe shortage (R.6. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (R.7. Conditions for safe shortage (Symptoms/injuries after eye conf	tact : N	May cause redness and i	rritation.			
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For containment If possible, stop flow of product.	oid release to the environmen	ıt.				;	
Methods for cleaning up Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage (7.1. Precautions for safe handling Precautions for safe shandling Precautions for safe storage, including any Incompatibilities. Storage conditions Storage conditions Store in a cool, dry place. Do not freeze. Keep container tightly closed when not in use. SECTION 8: Exposure controls/personal protection 8.1. Control parameters 1,2-Propanediol (57-55-6) AIHA WEEL TWA 10 mg/m² Subtilisins (proteolytic enzymes) (9014-01-1) ACGIH ACGIH ACGIH ACGIH ACGIH ACGIH NIOSH RIOSH RIOSH RIOSH RIOSH NIOSH RIOSH Substiliation controls None required under normal product handling conditions. "and protection "and protection "Use safety glasses if splashing is likely. Skin and body protection "Wear suitable working clothes.	6.3. Methods and materia	il for containment a	nd cleaning up	·	~~~~~~~~~		
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Sensor Cleaner

SCHION 8: Physical and disentical properties	Respiratory protection :	None required under no	rmal product handling conditions.	
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Sensor Cleaner Safety Data Sheet Alcohols, C9-11, ethoxylated (68439-46-3) 1378 mg/kg ATE US (oral) ,2-Propanediol (57-55-6) LD50 oral rat 20 g/kg LD50 dermal rabbit 20800 mg/kg ATE US (oral) 20000 mg/kg body weight ATE US (dermal) 20800 mg/kg body weight Subtilisins (proteolytic enzymes) (9014-01-1) LD50 oral rat 3700 mg/kg ATE US (oral) 500 mg/kg body weight Amylase, .alpha.- (9000-90-2) LD50 oral rat > 7500 mg/kg Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitization Germ cell mutagenicity Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified SECTION 12: Ecological information 12.1. Toxicity 2-Propanediol (57-55-6) 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) LC50 - Fish [1] EC50 - Crustacea [1] > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) LC50 - Fish [2] 41 - 47 ml/i (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential 1,2-Propanediol (57-55-6) < 1 BCF - Fish [1] 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Effect on the ozone layer : No additional information available SECTION 13: Disposal considerations Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. SECTION 14: Transport information Department of Transportation (DOT) accordance with DOT ot applicable

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Sensor Cleaner Safety Data Sheet

ECTION 15: Regulatory informa	tion -		
.1. US Federal regulations	doli *. *		
Water (7732-18-5)	31 ***		I
Listed on the United States TSCA (Toxic S	ubstances Control Act) inventory	/	!
Alcohols, C9-11, ethoxylated (68439-46-	3)		<u> </u>
Listed on the United States TSCA (Toxic S	ubstances Control Act) inventor		
EPA TSCA Regulatory Flag	XU - XU - indicates a su Rule, (40 CFR 711).	bstance exempt from reporting under the Che	mical Data Reporting
1,2-Propanediol (57-55-6)			1
isted on the United States TSCA (Toxic S	ubstances Control Act) inventor	/	
Subtilisins (proteolytic enzymes) (9014-	01-1)		1 -
Listed on the United States TSCA (Toxic S		,	<u> </u>
EPA TSCA Regulatory Flag		bstance exempt from reporting under the Che	mical Data Reporting
Amylase, .alpha (9000-90-2)			
Listed on the United States TSCA (Toxic S	Substances Control Act) inventor	/	T
EPA TSCA Regulatory Flag		bstance exempt from reporting under the Che	mical Data Reporting
Çellulase (9012-54-8)		1	
Listed on the United States TSCA (Toxic S	Substances Control Act) inventor	,	
EPA TSCA Regulatory Flag	XU - XU - indicates a su	bstance exempt from reporting under the Che	mical Data Reporting
	Rule, (40 CFR 711).		
Lipase, triacylgiycerol (9001-62-1)			
Listed on the United States TSCA (Toxic S			
EPA TSCA Regulatory Flag	XU - XU - indicates a su Rule, (40 CFR 711).	bstance exempt from reporting under the Che	mical Data Reporting
5.2. US State regulations			1
1,2-Propanediol (57-55-6)		į	
U.S Minnesota - Hazardous Substance I			
U.S New Jersey - Right to Know Hazard]
U.S Pennsylvania - RTK (Right to Know)) List	!	
SECTION 16: Other information	. 4.		Ţ
SECTION TO: Other information			,
This information is based on our current knowledge and is	intended to describe the amount for the nu	poses of health, safety and environmental requirements only	 should not therefore he constru
uaranteeing any specific property of the product.	monaca to data mo and product for the pu	t	l aloud her blorelere be consulte
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Tank Cleaner Safety Data Sheet

ECTION 1: Identification					
1.1. Identification		- 			
Product name	: Tank Cleaner				
1.2. Relevant identified uses of the substa	ince or mixture and uses	advised against			
	: Tank Maintenance			i	
1.3. Details of the supplier of the safety da	ata sheet				
Unique Manufacturing and Marketing				ı	
5752 Lamar St.					
Arvada, CO 80002					
1.4. Emergency telephone number					
Emergency number	: 720-798-6122				
<u> </u>				i	
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mix	xture		~		<u>'</u>
GHS US classification					
Not classified					
2. Label slavents					
2.2. Label elements GHS US labeling					
No labeling applicable					
2.3. Other hazards					
No additional information available					
4. Unknown acute toxicity (GHS US)	3.7	<u> </u>			
ot applicable					
SECTION 3: Composition/Information	i on ingredients	i			
3.1. Substances					
Not applicable		<u> </u>			· · · · · · · · · · · · · · · · · · ·
3.2. Mixtures					
Name	Product identif		%	'	
Water	(CAS-No.) 7732-18-	:	> 85		
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-40 (CAS-No.) 57-55-6	-3	Proprietary Proprietary	-	
1,2-Propanediol Trisodium citrate dihydrate	(CAS-No.) 6132-04-	3	Proprietary	1	*
Proxel GXL	Mixture		Proprietary	'	
Subtilisins (proteolytic enzymes)	(CAS-No.) 9014-01-	1	Proprietary		
Amylase, .alpha	(CAS-No.) 9000-90-		Proprietary	'	
Cellulase	(CAS-No.) 9012-54		Proprietary		
Lipase, triacylglycerol	(CAS-No.) 9001-62	1	Proprietary	'	
Kathon CG/ICP	Mixture		Proprietary		
Viable bacteria cultures	None		Proprietary	;	
Fragrance	Mixture	-	<1		
SECTION 4: First aid measures				-	
4.1. Description of first aid measures					
First-aid measures after inhalation	: No specific first aid ned	essary for this route of	exposure.	١.	
First-aid measures after skin contact	: In case of contact, was				
First-aid measures after eye contact	: Flush with plenty of wa	ter for at least 15 minu	tes. Seek medic	al advice	e if irritation develops or
Non- 4 14 14 14 14 14 14 14 14 14 14 14 14 1	persists. : Give affected person s	word stacoos of water	e and induse you	itina O	htain madical attention
First-aid measures after ingestion	Never give anything by	mouth to an unconsci	ous person.	ոգուց. Մ	Diam Historial attention.
· ·			-	;	
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Tank Cleaner

4.2. Most important symp	toms and effects, both acute and delaye	d
ymptoms/injuries after inhalation	n : None under normal use	1.
ymptoms/injuries after skin con	tact : Prolonged or repeated open wounds or broken	exposure may cause irritation. Bacterial infection may occur through skin.
Symptoms/injuries after eye conf	tact ; May cause redness and	irritation.
Symptoms/injuries after ingestion	n : May cause nausea, vor	niting and diarrhea if ingested.
4.3. Indication of any imn	nediate medical attention and special tre	atment needed
No additional information availab		
SECTION 5: Firefighting	measures	:b
5.1. Extinguishing media	· · · · · · · · · · · · · · · · · · ·	
Suitable extinguishing media		a appropriate for surrounding fire.
Unsuitable extinguishing media	: None,	a appropriate for surfacility inc.
, ,	ing from the substance or mixture	
Fire hazard	: None known.	
Explosion hazard	: None known.	
•		
5.3. Advice for firefighter		
Protection during firefighting	: Firefighters should wea	r full protective gear.
SECTION 6: Accidental	release measures	
6.1. Personal precautions	s, protective equipment and emergency (procedures
6.1.1. For non-emergency		
No additional information availab		
6.1.2. For emergency response	nndere	
No additional information available		ļ l
6.2. Environmental preca		
void release to the environmen		
	of for containment and cleaning up	
For containment	: If possible, stop flow of	ገ :
Methods for cleaning up	: Confine spill and soak of accordance with local,	up with absorbent. Place in an approved container and dispose in state and federal regulations.
6.4. Reference to other s	ections	
No additional information availat		
SECTION 7: Handling ar	nd storage	
7.1. Precautions for safe		
Precautions for safe handling		osure. Wash thoroughly after handling. Keep out of reach of children.
_		osure, wash thoroughly after handling. Neep out of reach of children.
	storage, including any incompatibilities	
Storage conditions	: Store in a cool, dry plac	de. Do not freeze. Keep container tightly closed when not in use.
SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
1,2-Propanediol (57-55-6)		
AIHA	WEEL TWA	10 mg/m³
Subtilisins (proteolytic enzyl		<u> </u>
ACGIH	ACGIH OEL Ceiling	0.00006 mg/m³
NIOSH	NIOSH REL (STEL)	0.00006 mg/m³
MOOT	MOSTREE (STEE)	0.00000 mg/m i
8.2. Exposure controls		
Appropriate engineering control	s : None required under n	ormal product handling conditions.
Hand protection	: Wear impervious glove	s to minimize skin contact.
ye protection	: Use safety glasses if s	plashing is likely.
škin and body protection	: Wear suitable working	clothes.
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Respiratory protection :	None required under no	rmal product handling conditions.	
CTION 9: Physical and chemical pr	operties .		
ூ. Information on basic physical and che			
	Liquid		
Appearance :	Translucent.		
Color	None		}
Odor :	Fragrant		
Odor threshold	No data available		1
pH :	No data available		
Melting point :	No data available		
Freezing point	No data available		
Boiling point :	No data available		1
Flash point	No data available		
Relative evaporation rate (butyl acetate=1)	No data available	· ·	
Flammability (solid, gas)	No data available		
Vapor pressure	No data available	1	
Relative vapor density at 20 °C	No data available		
•	No data available		
	Miscible with water,		
, ,	No data available		
9	No data available	T.	
•	No data available		j
Viscosity, kinematic	No data available		
** *	No data available		
· '	No data available		
,	No data available		
,⊸'idizing properties	No data available	, ,	
9.2: Other information			<u> </u>
No additional information available			
SECTION 1.0: Stability and reactivity	r i	M 78 18 7	1
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			1
The product is stable at normal handling and stora	ge conditions.		
10.3. Possibility of hazardous reactions		257	· · · · · · · · · · · · · · · · · · ·
Will not occur.			
10.4. Conditions to avoid	***************************************		
None,			······································
10.5. Incompatible materials	7		<u></u>
None.			i
10.6. Hazardous decomposition products			
Not determined.		1	1
SECTION 11: Toxicological information	on ^s		
11.1. Information on toxicological effects			4
Acute toxicity	: Not classified		
Water (7732-18-5)			
LD50 oral rat	> 90 ml/kg	<u> </u>	<u>; </u>
	(oo mung		
Icohols, C9-11, ethoxylated (68439-46-3)	1400		<u> </u>
LD50 oral rat	1400 mg/kg		<u>!</u>
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Tank Cleaner Safety Data Sheet

Alcohols, C9-11, ethoxylated (68439-46-3)	9: 13:		1	
ATE US (oral)	1378 mg/kg		Į	
1,2-Propanedlol (57-55-6)		3	1	
LD50 oral rat	20 g/kg		- !	
	20 g/kg 20800 mg/kg			
LD50 dermal rabbit				
ATE US (oral)	20000 mg/kg body wei		<u> </u>	
ATE US (dermal)	20800 mg/kg body wei	gnt	- 	
Subtilisins (proteolytic enzymes) (9014-01-1	Yi			<u> </u>
LD50 oral rat	3700 mg/kg		1	
	500 mg/kg body weigh	+	'	
ATE US (oral)	300 Highly body weigh			
Amylase, .alpha (9000-90-2)	<u> </u>		. ,	
LD50 oral rat	> 7500 mg/kg		!	
Skin corrosion/irritation	: Not classified		1	
			ļ	
Serious eye damage/irritation	: Not classified		' i	
Respiratory or skin sensitization	: Not classified		'	
Germ cell mutagenicity	: Not classified		.	
Carcinogenicity	: Not classified		1 1	
Danua direktiva kardatka	. Not along!find		<u> </u>	
Reproductive toxicity	: Not classified		i	
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified		. !	
Aspiration hazard	: Not classified		'	
Nopile and Note and		İ	_ ,	
1,2-Propanediol (57-55-6)	E1600 mall (Expense)	time: 96 h - Species: Oncorhynchus my	vise (etátici)	
LC50 - Fish [1]				
EC50 - Crustacea [1]		e time: 48 h - Species: Daphnia magna [
LC50 - Fish [2]	41 – 47 mVi (Exposure	e time: 96 h - Species: Oncorhynchus m	ykiss įstaticį)	
			,]'	
12.2. Persistence and degradability	9195 v	· · · · · · · · · · · · · · · · · · ·		
No additional information available			i i	
• • • • • • • • • • • • • • • • • • • •				
12.3. Bioaccumulative potential				
			1	
1,2-Propanediol (57-55-6)			(1	
BCF - Fish [1]	<1			
12.4. Mobility in soil	· · · · · · · · · · · · · · · · · · ·			
No additional information available				and the second s
12.5. Other adverse effects				
Effect on the ozone layer	: No additional informa	tion available		
Effect on the ozone layer	: No additional informa	lion available	'	
	_	tion available	1	
SECTION 13: Disposal consideration	_	tion available	1	
SECTION 13:, Disposal consideratio	ńs			
SECTION 13: Disposal consideration	ins : Dispose of contents/o	ontainer in accordance with local/region		ational
SECTION 13:, Disposal consideratio	ńs			ational
SECTION 13: Disposal considerations. 13.1. Waste treatment methods Product/Packaging disposal recommendations	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13: Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13: Disposal considerations. 13.1. Waste treatment methods Product/Packaging disposal recommendations	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13: Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13:, Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information Department of Transportation (DOT)	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13: Disposal considerations. 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information Department of Transportation (DOT)	: Dispose of contents/oregulations.	ontainer in accordance with local/region		ational
SECTION 13:, Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information Department of Transportation (DOT)	: Dispose of contents/oregulations.	ontainer in accordance with local/region		
SECTION 13:, Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information Department of Transportation (DOT)	: Dispose of contents/oregulations.	ontainer in accordance with local/region		national 4/5
SECTION 13: Disposal consideration 13.1. Waste treatment methods Product/Packaging disposal recommendations SECTION 14: Transport information Department of Transportation (DOT) 'n accordance with DOT lot applicable	: Dispose of contents/oregulations.	ontainer in accordance with local/region		

Tank Cleaner Safety Data Sheet

ECTION 15: Regulatory information	n .		<u> </u>
1. US Federal regulations	3		
Water (7732-18-5)			
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventor	у	
Alcohols, C9-11, ethoxylated (68439-46-3)			
Listed on the United States TSCA (Toxic Subs			
EPA TSCA Regulatory Flag	XU - XU - indicates a su Rule, (40 CFR 711).	ubstance exempt from reporting under the	Chemical Data Reporting
1,2-Propanediol (57-55-6)	1		· •
Listed on the United States TSCA (Toxic Sub-	stances Control Act) inventor	у	!
Subtilisins (proteolytic enzymes) (9014-01-			
Listed on the United States TSCA (Toxic Subs			
EPA TSCA Regulatory Flag	XU - XU - indicates a si Rule, (40 CFR 711).	ubstance exempt from reporting under the	Chemical Data Reporting
Amylase, .alpha (9000-90-2)			
Listed on the United States TSCA (Toxic Sub-			
EPA TSCA Regulatory Flag	XU - XU - indicates a si Rule, (40 CFR 711).	ubstance exempt from reporting under the	Chemical Data Reporting
Cellulase (9012-54-8)	7		
Listed on the United States TSCA (Toxic Sub-	stances Control Act) inventor	y	
EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the	Chemical Data Reporting
Lipase, triacylglycerol (9001-62-1)		1	
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventor	у,	
,EPA TSCA Regulatory Flag	XU - XU - indicates a s Rule, (40 CFR 711).	ubstance exempt from reporting under the	Chemical Data Reporting
And the Charles and Alexander			
15.2. US State regulations	<u> </u>		
1,2-Propanediol (57-55-6)	1	1.	1
U.S Minnesota - Hazardous Substance List U.S New Jersey - Right to Know Hazardous U.S Pennsylvania - RTK (Right to Know) Li	Substance List		
	i		
		<u> </u>	1
SECTION 16: Other information	460. 4 · 44.5		
This information is based on our current knowledge and is inte	nded to describe the product for the po	poses of health, safety and environmental requirement	s only. It should not therefore be construed as
guaranteeing any specific property of the product.		·	
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RV Toilet Cleaner Safety Data Sheet

ECTION 1: Identification	* *	li .	* - H		
1.1. Identification					
Product name : RV To	oilet Cleaner			!	
Other means of identification : RV To	oilet Bowl Cleaner			i į	
				1 1	
1.2. Relevant identified uses of the substance or	miyture and uses	advised analnet		·	
	ing product	auviseu against		7-7	
1.3. Details of the supplier of the safety data she	- ·			`i	
Unique Manufacturing and Marketing	<u> </u>				
5752 Lamar St. Arvada, CO 80002					
1.4. Emergency telephone number					
Emergency number : 800-4	76-1608			'	
SECTION 2: Hazard(s) identification				!	
2.1. Classification of the substance or mixture		-			
Classification (GHS-US)					——————————————————————————————————————
Not classified				1 1	
2.2. Label elements					
GHS-US labeling				1	
No labeling applicable					
2.3. Other hazards	······································				
o additional information available				ı [
4. Unknown acute toxicity (GHS US)					
Not applicable				1	
SECTION 3: Composition/information on in	gredients				
3.1. Substance		· 			
Not applicable				'	
3.2. Mixture					
Name	Product identif	ier	%	Classifi	cation (GHS-US)
Water	(CAS No) 7732-18-	5	Trade Secret	Not class	ified
Proprietary Component 1	Trade Secret		Trade Secret	Not class	ified
Proprietary Component 2	(CAS No) Trade Se	cret	Trade Secret	Not class	ified
Proprietary Component 3	(CAS No) Trade Se	cret	Trade Secret	Not class	sified
Proprietary Component 4	(CAS No) Trade Se	cret	Trade Secret	Not class	sified
Proprietary Component 5	Trade Secret		Trade Secret	Not class	ified
SECTION 4: First aid measures				<u> </u>	
4.1. Description of first aid measures					
	pecific first aid ned	essary for this route of	exposure.	- -	
First-aid measures after skin contact : Was	h with plenty of so	ap and water.		! }	
	• •	ter for at least 15 minu	tes. Seek medic	al advice i	if irritation develops or
First-aid measures after ingestion : Do N		ng. Obtain emergency r	medical attentio	դ.	
4.2. Most important symptoms and effects, both	acute and delaye	<u>ed</u>			
	e under normal us				
		contact may irritate the	skin.	i	
symptoms/injuries after eye contact : May	cause slight irritati	ion.		1 τ	
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RV Toilet Cleaner Safety Data Sheet

Symptoms/injuries after ingestion	: May be harmful if swa	llowed.		
3. Indication of any immediate medic	al attention and special tr	eatment needed		
No additional information available			· ·	
SECTION 5: Firefighting measures				_
5.1. Extinguishing media				
Suitable extinguishing media	: Use extinguishing me	dia appropriate for surrounding fire		
Unsuitable extinguishing media	: None.			
<u> </u>				
5.2. Special hazards arising from the s Fire hazard	: None known.			
Explosion hazard	: None known.		İ	
	, Notic Allowit,			- 4 Myster 44
5,3. Advice for firefighters				
Protection during firefighting	: Firefighters should we	ear full protective gear.	Ì	
SECTION 6: Accidental release me	asures		· · · · · · · · · · · · · · · · · · ·	
6.1. Personal precautions, protective e	equipment and emergency	procedures		
6.1.1. For non-emergency personnel				
No additional information available			{	
6.1.2. For emergency responders			' 1	
No additional information available			. !	
			1	
6.2. Environmental precautions Avoid release to the environment,	- Tachuman			
			<u> </u>	
6.3. Methods and material for contains				
For containment	: If possible, stop flow	1	. ' . !	
Methods for cleaning up		k up with absorbent. Place in an ar I, state and federal regulations.	proved container and dispose in	
× 5			- <u></u>	
v.4. Reference to other sections	- 438124		· · · · · · · · · · · · · · · · · · ·	
No additional information available			i	.
SECTION 7: Handling and storage		<u> </u>	,	
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid contact with ey	es, skin and clothing. Wash thorou	ghly after handling.	
7.2. Conditions for safe storage, inclu	ding any incompatibilities			-
Storage conditions	: Store in dry, cool, we	ll-γ≀entilated area.	1	
SECTION 8: Exposure controls/per	rsonal protection			
8.1. Control parameters				
Water (7732-18-5)			1	
Not applicable				
Non Hazardous Ingredients				
Not applicable		-		
			<u></u>	
Proprietary Component 2 (Trade Secret)			-	
Not applicable			<u></u>	
Proprietary Component 3 (Trade Secret)				
Not applicable				
Proprietary Component 4 (Trade Secret)		-		
Not applicable		<u> </u>		
			<u>I</u>	
2. Exposure controls				
Sppropriate engineering controls	: None required under	normal product handling condition	S	
- Appropriate originating controls	, Itolio leganea allaci	Trontal product renaming container	·	
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	· - ·			

RV Toilet Cleaner Safety Data Sheet Wear impervious gloves to minimize skin contact. Hand protection None required under normal product handling conditions. ve protection Wear suitable working clothes. _kin and body protection Respiratory protection None required under normal product handling conditions, SECTION 9: Physical and chemical properties Information on basic physical and chemical properties Physical state Liquid Color Blue Odor Fragrant No data available Odor threshold No data available pΗ Melting point No data available No data available Freezing point **Boiling point** No data available No data available Flash point No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) No data available **Explosion limits** No data available No data available Explosive properties Oxidizing properties No data available No data available Vapor pressure

Relative density

Solubility

'⊲g Pow

Viscosity

10.1.__

10.3. Will not occur.

10.4.

None. 10.5.

None. 10.6.

Not determined.

Acute toxicity 01/14/2016

Relative vapor density at 20 °C

'ito-ignition temperature Decomposition temperature

Other information No additional information available

Conditions to avoid

Incompatible materials

Reactivity No additional information available Chemical stability

SECTION 10: Stability and reactivity

The product is stable at normal handling and storage conditions.

Possibility of hazardous reactions

Hazardous decomposition products

SECTION 11: Toxicological information 14.1. Information on toxicological effects

Viscosity, kinematic

Viscosity, dynamic

No data available

No data available

No data available No data available

No data available No data available

No data available

No data available

: Not classified

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Miscible with water.

		1	· i
''/ater (7.732-18-5)			
D50 oral rat	> 90 ml/kg		1 1
			i i
Proprietary Component 3 (Trade Secret) LD50 oral rat	, 10000 II		
	> 10000 mg/kg		<u> </u>
Proprietary Component 4 (Trade Secret) LD50 oral rat	* 2000 #		<u> </u>
Skin corrosion/irritation	> 2000 mg/kg		
	: Not classified : Not classified		
Serious eye damage/irritation Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		'
Carcinogenicity	: Not classified		
oal chiegorially	. Not classified		•
	. NI=A =1===10= 1		1
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated	: Not classified		1
exposure)			
			i
Aspiration hazard	: Not classified		
LC50 fish 2 Proprietary Component 4 (Trade Secret)	> 6800 mg/l (Exposure	time: 96 h - Species: Pimephales promela	s [static])
LC50 fish 1	550 mg/l (Exposure tin	ne: 96 h - Species: Brachydanio rerio [semi	-statici)
12.2. Persistence and degradability		<u> </u>	! !
No additional information available	A second		
12.3. Bioaccumulative potential			
Bronslaton, Commonant & Transla Daine		<u> </u>	<u>['</u>
Proprietary Component 4 (Trade Secret) Log Pow	6.02 - 7.81	<u> </u>	
	0.02 - 7.61		
			1
		1	
No additional information available			
No additional information available 12.5. Other adverse effects	Manual Manager		
No additional information available 12.5. Other adverse effects	; No additional informati	ion available	
No additional information available 12.5. Other adverse effects Effect on ozone layer		ion available amage caused by this product.	
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration	: No known ecological o	1	
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration 13.1, Waste treatment methods	: No known ecological c	damage caused by this product.	national/international
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration 13.1, Waste treatment methods	: No known ecological c	damage caused by this product.	national/international
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration 13.1, Waste treatment methods	: No known ecological cons	damage caused by this product.	national/international
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration 13.1. Waste treatment methods	: No known ecological cons	damage caused by this product.	national/international
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration 13.1. Waste treatment methods	: No known ecological cons	damage caused by this product.	ational/international
No additional information available 12.5. Other adverse effects Effect on ozone layer Effect on the global warming SECTION 13: Disposal consideration	: No known ecological cons	damage caused by this product.	national/international

RV Toilet Cleaner

Safety Data Sheet

	1	
SECTION 14: Transport information		
partment of Transportation (DOT)		
In accordance with DOT		
Not regulated for transport	ļ	
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Water (7732-18-5)		1
Listed on the United States TSCA (Toxic Substances Control Act) inventory		l
Proprietary Component 2 (Trade Secret)		
Listed on the United States TSCA (Toxic Substances Control Act) Inventory		!
Proprietary Component 3 (Trade Secret)		- " " " " " " " " " " " " " " " " " " "
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Proprietary Component 4 (Trade Secret)	,	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.2. US State regulations		
Proprietary Component 3 (Trade Secret)	,	
U.S Massachusetts - Right To Know List		
U.S Pennsylvania - RTK (Right to Know) List		
	J 1	,
SECTION 16: Other information	•	
	1	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as transeeing any specific property of the product

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 50147

Issue date: 8/18/2020 Revision date: 9/26/2023 Supersedes: 12/16/2020 Version: 3.0

SECTION 1: Identification

1:1. Identification

Product form

: Mixture

Trade name

: AQUAMAX SPRING SHOWERS LIQUID

Product code

96772-TC

1.2. Recommended use and restrictions on use

Recommended use

: Holding tank treatment for RV and portable waste holding tanks

13. Supplier

Manufacturer

Thetford LLC

7101 Jackson Road

Ann Arbor, MI 48103

USA

T (734) 769-6000

sds@thetford.com

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.4.	Εn	16	110	lei	ncv.	tel	90	ho	П	e t	านท	າbei⊹

Country.	Organization/Company.	Address	Emergency number	Comment
USA	CHEMTREC - 24/7		(800) 424-9300	-

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 1

Full text of H statements : see section 16

H318

Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)
Precautionary statements (GHS US)

Danger

H318 - Causes serious eye damage

P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER.

2:3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

Mixture of the following ingredients with non hazardous additions

Name	Product identifier %	GHS US classification
Ethoxylated alcohols	CAS-No.: 34398-01-1 1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium tetradecyl sulfate	CAS-No.: 68585-47-7 0.1 – 5	Eye Dam. 1, H318 Skin Imit. 2, H315

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

Gently wash with plenty of soap and water.

First-aid measures after eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion

: Do not induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

Symptoms/effects after skin contact

May cause moderate irritation.

Symptoms/effects after eye contact

: Causes serious eye damage.

Symptoms/effects after ingestion

: Ingestion may cause nausea and vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures.

5:1 Sultable (and unsultable) extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray.

5.2. Specific hazards arising from the chemical-

Hazardous decomposition products in case of fire

: Thermal decomposition generates : Carbon dioxide. Carbon monoxide

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures

nent and emergency procedures Avoid contact with skin and eyes. Wear suitable protective clothing. No flames, no sparks.

Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

Emergency procedures

: Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Avoid contact with

skin and eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. Protective gloves. Safety glasses. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Clean up small spills with water. Soak up larger spills with absorbent material. Place used absorbent in closed containers for disposal. Mop the are with plently of cold, clean water. Dispose of in accordance with federal, state, and local regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1: Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Wear personal protective equipment. Wash thoroughly after handling. Keep away from sources of ignition - No smoking. Spilled material may be slippery.

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Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep away from ignition sources. Do not freeze.

Incompatible products
Storage temperature

Strong bases. Strong acids.> 0 - < 38 °C (>32 - <100°F)

SECTION:8: Exposure controls/personal protection

8.1. Control parameters

AQUAMAX SPRING SHOWERS LIQUID

No additional information available

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Sodium tetradecyl sulfate (68585-47-7)

No additional information available

Ethoxylated alcohols (34398-01-1)

No additional information available

8:2. Appropriate engineering controls

Appropriate engineering controls

: Maintain adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Personal protective equipment symbol(s):



Other information:

To not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Blue Odor : Floral

Odor threshold : No data available

pH : 7-9

Melting point : Not applicable
Freezing point : 0 °C (32°F)
Boiling point : 97 °C (270°F)
Flash point : > 93 °C (>200°F)
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (splid, das) : No flammable

Flammability (solid, gas) : Non flammable.

Vapor pressure : No data available

Relative vapor density at 20°C : No data available

Relative density : No data available

Density : 0.995 – 1.005 g/ml

Solubility : In water, material soluble.

Partition coefficient n-octanol/water (Log Pow)

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosion limits

No data available

No data available

Stop - 700 cP

Explosion limits

No data available

No data available

No data available

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Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5, Incompatible materials

Strong acids. Strong basēs.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Sodium tetradecyl sulfate (68585-47-7)

LD50 oral rat > 2000 mg/kg Source: IUCLID, TOMES; LOLI;

Ethoxylated alcohols (34398-01-1)

Skin corrosion/irritation

ATE US (oral) 500 mg/kg body weight

: Not classified pH: 7 - 9

Serious eye damage/irritation : Causes serious eye damage.

pH: 7 - 9

No data available

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

Viscosity, kinematic

: Based on available data, the classification criteria are not met.

:

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Symptoms/effects after skin contact

: May cause moderate irritation.

Symptoms/effects after eye contact

: Causes serious eye damage.

Symptoms/effects after ingestion

: Ingestion may cause nausea and vomiting.

SECTION 12. Ecological information

12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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12.2. Persistence and degradability.

AQUAMAX SPRING SHOWERS LIQUID

Persistence and degradability

Not established.

12.3. Bioaccumulative potential

AQUAMAX SPRING SHOWERS LIQUID

Bioaccumulative potential

Not established.

Sodium tetradecyl sulfate (68585-47-7)

Partition coefficient n-octanol/water (Log Pow)

2.18 Source: EPISUITE

12.4. Mobility in soil

Sodium tetradecyl sulfate (68585-47-7)

Mobility in soil

196.1

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

The generation of waste should be avoided or minimized wherever possible. Waste disposal should be in accordance with existing federal, state and local regulations. Empty containers should be rinsed and taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name.

Proper Shipping Name (DOT)
Proper Shipping Name (TDG)
Proper Shipping Name (IMDG)

Proper Shipping Name (IATA)

: Not regulated : Not regulated

: Not regulated : Not regulated

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AQUAMAX SPRING SHOWERS LIQUID

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Tränsport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

14.5. Environmental nazards

Other information : No supplementary information available.

14.6. Special precautions for user

TOD

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15:1. US Federal regulations

AQUAMAX SPRING SHOWERS LIQUID

SARA Section 311/312 Hazard Classes Health hazard - Serious eye damage or eye irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Sodium tetradecyl sulfate	68585-47-7	Present	Active	1
Ethoxylated alcohols	34398-01-1	Present	Inactive	Ń;P;XU

15.2. International regulations

No additional information available

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AQUAMAX SPRING SHOWERS LIQUID

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15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 9/26/2023 Other information : None.

Full text of	H-phrases	
H302	Harmful if swallowed	
H315	Causes skin irritation	'
H318	Causes serious eye damage	<u>'</u>

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 50143

Issue date: 8/18/2020 Revision date: 9/26/2023 Supersedes: 12/17/2020 Version: 3.0

SECTION 1: Identification

1.1, Identification

Product form

: Mixture

Trade name

AQUAMAX TOSS-INS - DRY SPRING SHOWERS

Product code

: 96768-TC

1.2. Recommended use and restrictions on use

Recommended use

: Holding tank treatment for RV and portable waste holding tanks

1.3. Supplier

Thetford LLC

7101 Jackson Road

Ann Arbor, MI 48103

USA

T (734) 769-6000

sds@thetford.com

1.4. Emergency telephone number

Country	Organization/Company	Address	, +	', '	Emergency number	Comment	
USA	CHEMTREC - 24/7				(800) 424-9300	İ	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2 Full text of H statements : see section 16

H319

Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements.

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)

: Warning

: H319 - Causes serious eye irritation

Precautionary statements (GHS US)

P280 - Wear eve protection.

P264 - Wash hands thoroughly after handling.

P305+P351+P338 - IF, IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Mixture of the following ingredients with non hazardous additions.

Name	Product identifier	%	GHS US classification
CITRIC ACID	CAS-No.: 77-92-9	1 – 5	Eye Irrit. 2, H319
Sodium tetradecyl sulfate	CAS-No.: 68585-47-7		Eye Dam. 1, H318 Skin Irrit. 2, H315

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

First-aid measures after skin contact First-aid measures after eye contact

: Remove person to fresh air and keep comfortable for breathing.

Gently wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

: Not expected to present a significant hazard under anticipated conditions of normal use.

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

None under normal use. Symptoms/effects after inhalation May cause moderate irritation.

Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion

May cause eye irritation. : May elevate blood pressure.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

5.1. Suitable (and unsuitable) extinguishing media

: Foam. Dry powder, Carbon dioxide. Water spray. Suitable extinguishing media

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Wear suitable protective clothing. No flames, no sparks.

Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

Protective equipment : Safety glasses. Protective gloves.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Eliminate all sources of ignition. Use spark proof tools. Minimize dusting and prevent distribution

of airborne dust. Avoid inhaltion of dust. Sweep up spills. Place in closed containers for

disposal. Mop area with clean water.

Other information : Dispose of in accordance with federal, state, and local regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7,1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wash thoroughly after handling. Keep away from sources of

ignition - No smoking. Avoid dust formation. Do not breathe dust.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from ignition sources. Keep container tightly closed and dry. Store in low humidity.

Incompatible products : Strong bases. Strong acids,

Storage temperature : < 38 °C (<100°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AQUAMAX TOSS-INS - DRY SPRING SHOWERS

No additional information available

CITRIC ACID (77-92-9)

No additional information available

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Sodium tetradecyl sulfate (68585-47-7)

No additional information available

8.2. Appropriate engineering controls

: Maintain adequate ventilation. Appropriate engineering controls

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Granular solid.

Color Blue Odor Floral

Odor threshold No data available

3 - 5

pH solution concentration 10 % 3 - 5 Melting point No data available Freezing point No data available Boiling point No data available

Flash point No data available

Relative evaporation rate (butyl acetate=1)

Flammability (solid, gas) Non flammable. Vapor pressure No data available Relative vapor density at 20°C No data available Relative density No data available Solubility Water: 94 % Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosion limits** No data available

Explosive properties No data available Oxidizing properties No data available

9.2. Other information

: 1017 - 1147 kg/m³ **Bulk density**

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
SECTION 10: Stability and reactivity	. *	'	
10.1. Reactivity	1		
The product is non-reactive under normal conditions of use, storage and transport.			r¦
10.2. Chemical stability			
Stable under normal conditions of use.		ı	lı
10.3. Possibility of hazardous reactions			
None under normal conditions.		İ	
10.4. Conditions to avoid	×		
Extremely high or low temperatures.		· · · · · · · · · · · · · · · · · · ·	'
10.5. Incompatible materials	· .		
Strong acids. Strong bases.		1	}
10.6. Hazardous decomposition products			1
Thermal decomposition generates : Carbon monoxide. Carbon dioxide.		· !	

SECTION 11: Toxicological information

2 F + HE
: Not classified
: Not classified
: Not classified
0
3000 mg/kg Source: OECD Screening Information Data Set
5400 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400
> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
> 2000 mg/kg body weight
1
> 2000 mg/kg Source: IUCLID, TOMES; LOLI;
: Not classified
pH: 3 – 5
: Causes serious eye irritation. pH: 3 – 5
: Not classified
: Not classified
: Not classified ;
: Not classified
: Not classified
: Not classified :
8000 mg/kg body weight Animal: rat

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according to Federal Register / Vol. 77, No. 58 / Monday; March 26, 2012 / Rules and Regulations

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CITRIC ACID (77-	.5 2 - 51

NOAEL (oral,rat,90 days) 4000 mg/kg body weight Animal: rat

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : May cause moderate irritation.
Symptoms/effects after eye contact : May cause eye irritation.
Symptoms/effects after ingestion : May elevate blood pressure.

SECTION 12: Ecological information

12.1. Toxicity

CITRIC ACID (77-92-9)

LC50 - Fish [1]	> 100 mg/l
EC50 - Other annatic organisms [1]	85 mg/l waterfie

12.2. Persistence and degradability

AQUAMAX TOSS-INS - DRY SPRING SHOWERS

Persistence and degradability Not established.

12.3. Bioaccumulative potential

AQUAMAX TOSS-INS - DRY SPRING SHOWERS

Bioaccumulative potential Not established.

CITRIC ACID (77-92-9)

Partition coefficient n-octanol/water (Log Pow) -1.72

Sodium tetradecyl sulfate (68585-47-7)

Partition coefficient n-octanol/water (Log Pow)

Pow) 2.18 Source: EPISUITE

12.4. Mobility in soil

Sodium tetradecyl sulfate (68585-47-7)

Mobility in soil 196.1

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods 🔭

Product/Packaging disposal recommendations

: The generation of waste should be avoided or minimized wherever possible. Waste disposal should be in accordance with existing federal, state and local regulations.

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

· . — — — — — — — — — — — — — — — — — —	 				<u> </u>
SECTION 14: Transport information	r.		8 F		3 to 100 to
In accordance with DOT / TDG / IMDG / IATA					
14.1. UN number			, , ,		
Not regulated for transport	 	``````````````````````````````		- 	
14:2. UN proper shipping name 🎄 🚜				<u> </u>	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	Not regulatedNot regulatedNot regulatedNot regulated			,	1
14.3. Transport hazard class(es)					
DOT Transport hazard class(es) (DOT)	: Not regulated			!	
TDG Transport hazard class(es) (TDG)	: Not regulated				
IMDG Transport hazard class(es) (IMDG)	: Not regulated			l ,	!
IATA Transport hazard class(es) (IATA)	: Not regulated		WATER WATER	:	
14.4. Packing group	, , , , , , , , , , , , , , , , , , ,	1			
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: Not regulated: Not regulated: Not regulated: Not regulated				
14.5. Environmental hazards		(1)	Tr.		(E.14)
Other information	: No supplementa	ary information availa	ble.	-	
14.6. Special precautions for user					
DOT Not regulated				1	
TDG Not regulated					
IMDG Not regulated				1	
IATA Not regulated				, , ,	
14.7. Transport in bulk according to Anne	x II of MARPOL 73	3/78 and the IBC C	ode		
1				, '	

Not applicable

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	Regulatory information		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u>' </u>
15.1. US Federa	l regulations	**			
AQUAMAX TO:	SS-INS - DRY SPRING SHOW	NERS	4	-	
	1/312 Hazard Classes		rious eye damage or	-	
commercial status	of components according to the	United States Environm	ental Protection Agend	cy's Toxic Substances C	ontrol Act (TSCA):
Name	e e e e e e e e e e e e e e e e e e e	CAS-No.	Listing	Commercial status	Flags
CITRIC ACID		77-92-9	Present	Active	
Sodium tetradecyl	sulfate	68585-47-7	Present	Active	
lo additional inform	nation available	· · · · · · · · · · · · · · · · · · ·			
No additional inform 15.3: US State ri	nation available egulations nation available			1	Company Control of the Control of th
lo additional inform 15.3: US State ro lo additional inform SECTION 16: (nation available egulations				Company Control of the Control of th
to additional information info	nation available egulations nation available Other information al Register / Vol. 77, No. 58 / Mon	nday, March 26, 2012 / I : 9/26/2023			Company Control of the Control of th
lo additional inform 15.3. US State ri lo additional inform SECTION 16: (ccording to Federal levision date other information	nation available egulations nation available Other information al Register / Vol. 77, No. 58 / Mon	nday, March 26, 2012 / I : 9/26/2023			Company Control of the Control of th
io additional informational information in	nation available egulations nation available Other information al Register / Vol. 77, No. 58 / Mon	nday, March 26, 2012 / I : 9/26/2023			Company Control of the Control of th

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 50149

Issue date: 8/18/2020 Revision date: 9/26/2023 Supersedes: 12/17/2020 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form

Mixture

Trade name AQUAMAX TOSS-INS - DRY SUMMER CYPRESS

Product code 96767-TC

1.2. Recommended use and restrictions on use

Recommended use : Holding tank treatment for RV and portable waste holding tanks

1.3. Supplier

Manufacturer

Thetford LLC

7101 Jackson Road

Ann Arbor, MI 48103

USA

T (734) 769-6000

sds@thetford.com

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number .	Comment
USA	CHEMTREC - 24/7		(800) 424-9300	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2 Full text of H statements: see section 16

H319

Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

Warning

H319 - Causes serious eye imitation

P280 - Wear eye protection.

P264 - Wash hands thoroughly after handling.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Mixture of the following ingredients with non hazardous additions.

Name .	Product identifier	%	GHS US classification
CITRIC ACID	CAS-No.: 77-92-9	1 – 5	Eye Irrit. 2, H319
Sodium tetradecyl sulfate	CAS-No.: 68585-47-7	0.1 – 5	Eye Dam. 1, H318 Skin Irrit. 2, H315

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

Gently wash with plenty of soap and water.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feet unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation Symptoms/effects after skin contact None under normal use. May cause moderate irritation.

Symptoms/effects after eye contact

Symptoms/effects after ingestion

Causes eye imitation. : May elevate blood pressure.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

: Thermal decomposition generates : Carbon dioxide, Carbon monoxide.

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6.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes, Wear suitable protective clothing. No flames, no sparks.

Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

Protective equipment : Safety glasses. Protective gloves.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Eliminate all sources of ignition. Use spark proof tools, Minimize dusting and prevent distribution

of airborne dust. Avoid inhaltion of dust. Sweep up spills. Place in closed containers for disposal. Mop area with clean water. Dispose of in accordance with federal, state, and local

regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Wash thoroughly after handling. Avoid

dust formation. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from ignition sources. Keep container tightly closed and dry! Store in low humidity.

Incompatible products : Strong bases. Strong acids.

Storage temperature : < 38 °C (<100°F)

SECTION'8: Exposure controls/personal protection.

8.1. Control parameters

AQUAMAX TOSS-INS - DRY SUMMER CYPRESS

No additional information available

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CITRIC ACID (77-92-9) -

No additional information available

Sodium tetradecyl sulfate (68585-47-7)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Maintain adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular solid.

Color : Green
Odor : pine

Odor threshold : No data available

pH : 3-5 pH solution : 10 %

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point :

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable.

Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available : No data available

Solubility : Water: 96 %

Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available

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Explosive properties : No data available
Oxidizing properties : No data available
Dust deflagration index : < bar·m/s

9.2. Other information

Bulk density : 1017 -- 1147 kg/m³

Dust deflagration index : < bar·m/s

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological information

11	.1.	Infor	matio	า on	toxico	logic	ál e	ffects
----	-----	-------	-------	------	--------	-------	------	--------

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute (oxicity (initialation)	Not diassified	
CITRIC ACID (77-92-9)		
LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set	
LD50 oral	5400 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 4 Remarks on results: other:, 95% CL: 4500 - 6400	01 (Acute Oral Toxicity),
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402	? (Acute Dermal Toxicity)
LD50 dermal	> 2000 mg/kg body weight	
Sodium tetradecyl sulfate (68585-47-7)		
LD50 oral rat	> 2000 mg/kg Source: IUCLID, TOMES; LOLI;	_
Skin corrosion/irritation	Not classified	

pH: 3 – 5

Serious eye damage/irritation : Causes serious eye irritation.

pH: 3 – 5

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

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Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

CITRIC ÁCID (77-92-9) -

LOAEL (oral,rat,90 days)

8000 mg/kg body weight Animal: rat

NOAEL (oral,rat,90 days)

4000 mg/kg body weight Animal: rat

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms
Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : May cause moderate imitation.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May elevate blood pressure.

SECTION 12: Ecological information

12.1. Toxicity

EC50 - Other aquatic organisms [1] 85 mg	/I waterflea
LC50 - Fish [1] ' > 100	mg/l
CITRIC ACID (77-92-9)	

12.2. Persistence and degradability

AQUAMAX TOSS INS - DRY SUMMER CYPRESS

Persistence and degradability Not established.

12.3. Bioaccumulative potential

AQUAMAX TOSS-INS - DRY SUMMER CYPRESS

Bioaccumulative potential Not established.

CITRIC ACID (77-92-9)

Partition coefficient n-octanol/water (Log Pow) -1.72

Sodium tetradecyl sulfate (68585-47-7)

Partition coefficient n-octanol/water (Log Pow) 2.18 Source: EPISUITE

12.4. Mobility in soil

Sodium tetradecyl sulfate (68585-47-7)

Mobility in soil 196.1

12.5. Other adverse effects

No additional information available

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

: The generation of waste should be avoided or minimized wherever possible. Waste disposal should be in accordance with existing federal, state and local regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

AQUAMAX TOSS-INS - DRY SUMMER CYPRESS Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday; March 26, 2012 / Rules and Regulations IATA Not regulated

14.7: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

AQUAMAX TOSS-INS - DRY SUMMER CYPRESS

SARA Section 311/312 Hazard Classes Health hazard - Serious eye damage or eye irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial Financial	ags
CITRIC ACID	77-92-9	Present	Active	
Sodium tetradecyl sulfate	68585-47-7	Present	Active	

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 9/26/2023

Other information

: None.

Full text of	H-phrases	ļ	
H315	Causes skin irritation		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26; 2012 / Rules and Regulations SDS ID: 50140

Issue date: 11/7/2017 Revision date: 9/26/2023 Supersedes: 2/12/2018 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form

Mixture

Trade name

TANK BLASTER HOLDING TANK CLEANER

Product code

96529-TC

1.2. Recommended use and restrictions on use

Recommended use

: Holding tank cleaner

1,3. Supplier

Manufacturer

Thetford LLC

7101 Jackson Road

Ann Arbor, MI 48103

USA

T (734) 769-6000

sds@thetford.com

1.4. Emergency telephone number ...

Country	Organization/Company	Address	,	•	 Emergency number	Con	nment	
USA	CHEMTREC - 24/7				(800) 424-9300	- 		

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture.

GHS US classification

Serious eye damage/eye irritation Category 1

Respiratory sensitization, Category 1

H318

Causes serious eye damage

H334

May cause an allergy or asthma symptoms or breathing

difficulties if inhaled

Full text of H statements: see section 16

2.2 GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US)

Hazard statements (GHS US)

: Danger

H318 - Causes serious eye damage

H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS US)

: P261 - Avoid breathing dust. P280 - Wear eye protection.

P284 - [In case of inadequate ventilation] wear respiratory protection.

P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable

for breathing.

P342+P311 - If experiencing respiratory symptoms: Call a doctor.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER.

P501 - Dispose of contents/container to in accordance with local regulation...

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Mixture of the following ingredients with non hazardous additions:

Name	Product identifier	%	GHS US classification
CITRIC ACID	CAS-No.: 77-92-9	10 – 20	Eye lmt. 2, H319
Ethoxylated alcohols	CAS-No.: 68439-46-3	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium tetradecyl sulfate	CAS-No.: 68585-47-7	1-5	Eye Dam. 1, H318 Skin Irrit. 2, H315
CELLULASE	CAS-No.: 9012-54-8	0.1 – 1	Resp. Sens. 1, H334

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

- 4.1. Description of first aid measures
- First-aid measures after inhalation
- : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- First-aid measures after skin contact
- : Gently wash with plenty of soap and water.
- First-aid measures after eye contact
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion
- : Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and
- symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

- : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after inhalation
- May cause an allergy or asthma symptoms or breathing difficulties if inhaled. None under normal conditions.
- Symptoms/effects after skin contact
- Causes serious eve damage.
- Symptoms/effects after eye contact
- Symptoms/effects after ingestion
- May elevate blood pressure.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide, Water spray.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Wear suitable protective clothing. No flames, no sparks.

Eliminate all sources of ignition.

6.1,1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Do not breathe dust. No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

Protective equipment : Safety glasses. Protective gloves.

6.2. Environmental precautions

No additional information available

6:3. Methods and material for containment and cleaning up

Methods for cleaning up : Eliminate all sources of ignition. Use spark proof tools. Minimize dusting and prevent distribution

of airborne dust. Avoid inhaltion of dust. Sweep up spills. Place in closed containers for disposal. Mop area with clean water. Dispose of in accordance with federal, state, and local

regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust, Avoid contact with skin and eyes. Wash thoroughly after handling. Keep

away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container. Keep away from ignition sources.

Incompatible products : Strong bases. Strong acids.

Storage temperature : < 38 °C below 100°F and 75% humidity

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SECTION'8: Exposure controls/personal protection

8.1. Control parameters

TANK BLASTER HOLDING TANK CLEANER

No additional information available

CELLULASE (9012-54-8)

No additional information available

Ethoxylated alcohols (68439-46-3)

No additional information available

CITRIC ACID (77-92-9)

No additional information available

Sodium tetradecyl sulfate (68585-47-7)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Maintain adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties.

Physical state : Solid

Appearance Granular solid. Color white

Odor Odor threshold No data available

cherry

7-9 pH solution concentration 10 %

: No data available Melting point : No data available Freezing point-

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No data available **Boiling point** Flash point No data available Relative evaporation rate (butyl acetate=1) No data available Non flammable. Flammability (solid, gas) Vapor pressure No data available

No data available Relative vapor density at 20°C

Relative density No data available Material highly soluble in water.

Solubility No data available Partition coefficient n-octanol/water (Log Pow)

No data available Auto-ignition temperature No data available Decomposition temperature Viscosity, kinematic No data available No data available Viscosity, dynamic No data available **Explosion limits** No data available Explosive properties No data available Oxidizing properties

9.2. Other information

: 961 - 1041 kg/m³ **Bulk density**

SECTION 10: Stability and reactivity

10.1. Reactivity

Product releases carbon dioxide with the addition of water.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Water, humidity.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Not classified Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation)

CELLULASE (9012-54-8)

> 2960 mg/kg body weight Animal: rat, Guideline: other: LD50 oral rat LD50 oral > 2000 mg/kg body weight

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Ethoxylated alcohols (68439-46-3)	.,
ATE US (oral)	500 mg/kg body weight
CITRIC ACID (77-92-9)	
LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set
LD50 oral	5400 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity Remarks on results: other:, 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicit
LD50 dermal	> 2000 mg/kg body weight
Sodium tetradecyl sulfate (68585-47-7)	
LD50 oral rat	> 2000 mg/kg Source: IUCLID, TOMES; LOLI;
Skin corrosion/irritation	: Not classified pH: 7 – 9
Serious eye damage/imitation	: Causes serious eye damage. pH: 7 – 9
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified ;
STOT-repeated exposure	: Not classified
CITRIC ACID (77-92-9)	
LOAEL (oral,rat,90 days)	8000 mg/kg body weight Animal: rat
NOAEL (oral,rat,90 days)	4000 mg/kg body weight Animal: rat
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May elevate blood pressure.

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Safety Data Sheet

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CITRIC ACID (77-92-9)		
EC50 - Other aquatic organisms [1]	85 mg/l waterflea	
2.2. Persistence and degradability		
TANK BLASTER HOLDING TANK CLEANER		
Persistence and degradability	Not established.	
2.3. Bioaccumulative potential		
TANK BLASTER HOLDING TANK CLEANER		
Bioaccumulative potential	Not established.	
CELLULASE (9012-54-8)		
Partition coefficient n-octanol/water (Log Pow)	-1.3 Source: ECHA	
CITRIC ACID (77-92-9)		
Partition coefficient n-octanol/water (Log Pow)	-1.72	
Sodium tetradecyl sulfate (68585-47-7)		
Partition coefficient n-octanol/water (Log Pow)	2.18 Source: EPISUITE	
12.4 Mobility in soil		
Sodium tetradecyl sulfate (68585-47-7)		
Mability in soil	196.1	
12.5. Other adverse effects		
lo additional information available		
SECTION 13: Disposal considerations		
13.1. Disposal methods		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	: The generation of waste should be avoided or minimized wherever possible. Waste d	isposal
Todaest ackaging disposal recommendations	should be in accordance with existing federal, state and local regulations.	
ent. n		2.00
		,
SECTION 14: Transport information		
n accordance with DOT / TDG / IMDG / IATA		
n accordance with DOT / TDG / IMDG / IATA		
n accordance with DOT / TDG / IMDG / IATA		
n accordance with DOT / TDG / IMDG / IATA 14.1, UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (DOT)	: Not regulated	
n accordance with DOT / TDG / IMDG / IATA 14.1, UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (DOT) Proper Shipping Name (TDG)	: Not regulated : Not regulated	
n accordance with DOT / TDG / IMDG / IATA 14.1, UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	: Not regulated	

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

TANK BLASTER HOLDING TANK CLEANER

SARA Section 311/312 Hazard Classes

Health hazard - Respiratory or skin sensitization

Health hazard - Serious eye damage or eye irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	CAS-No.	Listing	Commercial status	F	lags
CELLULASE	9012-54-8	Present	Active	χì	<u> </u>
Ethoxylated alcohols	68439-46-3	Present	Active	X	J T
CITRIC ACID	77-92-9	Present	Active		
Sodium tetradecyl sulfate	68585-47-7	Present	Active		

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 9/26/2023

Other information

: None.

Full text of	H-phrases		
H302	Harmful if swallowed	<u>'</u>	
H315	Causes skin irritation		
H318	Causes serious eye damage		· · · · · · · · · · · · · · · · · · ·
H319	Causes serious eye irritation		
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled	i	

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



SAFETY DATA SHEET

1. Identification

Product Identifier

Gel Gloss

Other means of Identification

GG1, GG8, GG16, GG64, GG128

Recommended use

Surface gloss.

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

TR Industries a Division of Granitize Products Inc.

Address

11022 Vulcan Street

South Gate, CA 90280-0893 United States

Telephone:

(562) 923-5438

Emergency

CHEMTREC: (800) 424-9300

CHEMTREC International: 00 1-703-527-3887

2. Hazard(s) identification

Physical hazards

Flammable Liquids

Category 3

Health Hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

Sensitization, skin

Category 1

Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Hazard statement

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking, Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against stalle discharge. Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment, Wear protective

gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting, if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse, if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Collect spillage.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Water	7732-18-5	84
D-Limonene	5989-27-5	3
C12-C14 isoalkanes	68551-19-9	6
Olelc acid	. 112-80-1	1
Quartz	14808-60-7	5
Morpholine	110-91-8	1 1

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person.

Most Important symptoms/effects, acute and delayed

Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Indication of Immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General Information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing
media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air.

Thermal decomposition may produce CO, CO2, oxides of nitrogen and other potentially toxic gases.

Special protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

General fire hazards

Flammable liquid and vapor. Heat may cause the containers to explode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against stalle discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Large Spills: Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so, Avoid discharge into drains, water courses or onto the ground, Inform appropriate managerial or supervisory personnel of all environmental releases.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in a cooi, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Tuno

Components	гуре	Value	(
Morpholine (CAS 110-91-8)	PEL	70 mg/m3	
		20 ppm	
US. OSHA Table Z-3 (29 CFR 1910.	.1000)		
Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	. TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values	3		
Components	Туре	Value	Form
Morpholine (CAS 110-91-8)	TWA	20 ppm	
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chem	ilcal Hazards		
Components	Туре	Value	Form
Morpholine (CAS 110-91-8)	STEL	105 mg/m3	*
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
US. Workplace Environmental Exp	osure Level (WEEL) Guides		
Components	Туре	Value	
D-Limonene (CAS 5989-27-5)	TWA	165.5 mg/m3	

Components Type

Value 30 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Morpholine (CAS 110-91-8)

Skin designation applies.

US - Tennessee OELs: Skin designation

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

Appropriate engineering

controls

Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide

eyewash station.

individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved chemical safety goggles. Wear face shield if there is risk of splashes,

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Milky white liquid.

Physical state

Liquid.

Form

Liquid.

Color Odor

Milky white,

Odor threshold

Characteristic. Not available.

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Flash point

>35 °C

range

≥23 °C, ≤60 °C

Evaporation rate

0.1 Estimated.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Not available.

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available. Explosive limit - upper (%)

Vapor pressure

Not available.

Not available.

Vapor density

4.9 Estimated.

Relative density

< 1 Estimated.

Solubility(ies)

Solubility (water)

Negligible in water.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other Information Percent volatile

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, sparks, open flames and other Ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Amines.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged Inhalation may be harmful.

Skin contact

Causes skin Irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye damage.

Ingestion

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including bilindness could result. Skin irritation. May cause redness and pain. May cause

an allergic skin reaction.

Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

Components

Species

Test Results

Morpholine (CAS 110-91-8)

Acute

Dermal

LD50

Rabbit

500 mg/kg

500 mg/kg, 24 Hours

0.31 - 0.81 ml/kg, 24 Hours

Inhalation

LC50

Rati

8000 ppm, 8 hours

Oral LD50

Guinea pig

900 mg/kg

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Version #: 01 Revision date: -

Issue date: 15-September-2014

SDS US

Components Species **Test Results** Rat 1050 mg/kg 1.05 g/kg Oleic acid (CAS 112-80-1) Acute Oral LD50 Rat 74 g/kg Polyalkyl siloxane (CAS 63148-62-9) Acute Dermal LD50 Rabbit >= 5000 mg/kg Oral LD50 Rat >= 17000 mg/kg Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye damage. irritation Respiratory or skin sensitization Respiratory sensitization Not classified. Skin sensitization May cause an allergic skin reaction. Germ cell mutagenicity . Not classified. Carcinogenicity Due to the form of the product, exposure to the potentially carcinogenic components is not expected. IARC Monographs, Overall Evaluation of Carcinogenicity D-Limonene (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans. Morpholine (CAS 110-91-8) 3 Not classifiable as to carcinogenicity to humans. Quartz (CAS 14808-60-7) 1 Carcinogenic to humans. NTP Report on Carcinogens Quartz (CAS 14808-60-7) Known To Be Human Carcinogen. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity Not classified. Specific target organ toxicity -Not classified, single exposure Specific target organ toxicity -Not classified, repeated exposure Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects

May be harmful if absorbed through skin.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Morpholine (CAS 110-91-8)

-0.86

Mobility in soil

The product is insoluble or slightly soluble in water.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal Instructions

Dispose in accordance with all applicable regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies.

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SDS US

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptiled containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1268

UN proper shipping name

Petroleum products, n.o.s. (D-Limonene; C12-C14 isoalkanes)

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III
Environmental hazards

Marine pollutant ye

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 144, B1, IB3, T4, TP1, TP29

Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

IATA

UN number UN1268

UN proper shipping name Petroleum products, n.o.s. (D-Limonene, C12-C14 isoalkanes)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards yes
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG.

UN number UN1268

UN proper shipping name Petrole

Transport hazard class(es)

Petroleum products, n.o.s. (D-Limonene, C12-C14 isoalkanes)

Class 3
Subsidiary risk Packing group ill
Environmental hazards

Marine pollutant yes nS F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. ransport in bulk according to This substance/mixture is not intended to be transported in bulk.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Morpholine (CAS 110-91-8)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Morpholine (CAS 110-91-8) Quartz (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

D-Limonene (CAS 5989-27-5) Morpholine (CAS 110-91-8) Quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Morpholine (CAS 110-91-8) Olelo acid (CAS 112-80-1) Quartz (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2) Quartz (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	,	On inventory (yes/no)*
Australia	Australian inventory of Chemical Substances (AICS)	l	Yes
Canada	Domestic Substances List (DSL)	•	Yes
Canada	Non-Domestic Substances List (NDSL)		No
China	Inventory of Existing Chemical Substances in China (IECSC)		Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)		No
Europe	European List of Notified Chemical Substances (ELINCS)		No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	i	No
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand Inventory	!	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)		No .

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SDS US

Country(s) or region

inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

"A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" Indicates that one or more components of the product are not listed or exempt from listing on the Inventory administered by the governing

16. Other Information, including date of preparation or last revision

Issue date

15-September-2014

Revision date

Version#

01

NFPA ratings



List of abbreviations

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%, EC50: Effective concentration, 50%. STEL: Short term exposure ilmit. TWA: Time weighted average.

DOT: Department of Transportation. ADR: European Agreement concerning the International

Carriage of Dangerous Goods by Road. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

References

RTECS

HSDB® - Hazardous Substances Data Bank

GESTIS Substance Database C&L Inventory database.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This Information should be used to make an independent determination of the methods to safeguard

workers and the environment.

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

sompany: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

MEDICAL EMERGENCY TELEPHONE NO.: 800.424,9300

PRODUCT CODE: PRODUCT NAME: EFFECTIVE DATE:	Pure Power Blue, Toilet Deodorant / Detergent. Liquid toilet deodorant. June 01, 2010	
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SECTION I. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Nonionic Surfactant CAS # 127087-87-0

There is a mixture of specially selected bacteria strains contained in this product – all are non-pathogenic to humans. Other components consisting of between 3 & 8% by weight are considered a trade secret & under OSHA CFR 29 1910.1200(i) and are non-hazardous. Such components may be disclosed under emergency conditions to health professionals, if necessary.

Other Non-Hazardous Ingredients include: Fragrance, Dye..

SECTION II. PHYSICAL/CHEMICAL DATA:

BOILING POINT:	100 4	 _
The state of the s	100 degrees F	
JAPOR PRESSURE:	N/A	•
APOR DENSITY	N/A.	
) SOL. IN WATER:	99%	
BULK DENSITY:	Varies	
FREEZING POINT:	N/A.	
APPEARANCE:	Blue Liquid.	
ODOR:	Pleasant Fragrance	

SECTION III. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT:	N/A	
FLAMMABLË LIMIT:	N/A	
LFL:	N/A	
UFL:	N/A	

EXTINGUISHING MEDIA:

For surrounding fire, one may use foam, dry chemical, CO2 or water sprayer or fog.

FIRE AND EXPLOSION HAZARDS:

This product constitutes no significant fire hazard.

FIRE FIGHTING EQUIPMENT:

Use MSHA/NIOSH approved self-contained breathing & protective clothing. Cool exposed containers with water spray. Avoid breathing vapors, fumes or smoke.

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

ompany: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION IV. FIST AID AND REACTIVITY:

ACUTE:

Ingestion: May cause irritation and inflammation of mouth, throat and stomach. May cause stupor, nausea and vomiting leading to illness.

Inhalation: Irritating to nasal passages. May cause inflammation of lining of nose, throat and lungs.

Skin contact: May cause moderate injury (reddening and swelling).

Eye contact: May cause irritation.

Vapor may cause irritation, tearing and burning sensation.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: Contact a physician immediately.

Inhalation: Remove patient from contaminated area

Eye Contact: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

Skin contact: Remove contaminated clothing and wash contaminated skin with large amount of water. If irritation persists,

contact a physician. STABILITY: Stable

INCOMPATIBILITY: Strong alkali or caustic soda.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OR BY- PRODUCTS: May form some oxides and ammoniac vapor.

If ingested consult a physician.

SECTION V. FIRE FIGHTING, ENVIRONMENTAL AND DISPOSAL INFORMATION:

SPILL AND WASTE DISPOSAL METHOD:

STEPS TO BE TAKEN IN CASE OF A SPILL: Sweep up and recover.

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

FIRE FIGHTING: Use normal protective clothing, NIOSH-approved protective gear and so on. This product normally poses no fire hazard.

SECTION VI: ACCIDENTAL RELEASE & HEALTH HAZARD DATA

SPILL AND WASTE DISPOSAL METHOD:

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

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MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

Company: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION VII. CONTROL MEASURES AND HANDLING:

RESPIRATORY PROTECTION:

OSHA approved respirators recommended.

VENTILATION:

Good general ventilation should be sufficient.

LOCAL EXHAUST:

MECHANICAL:

SPECIAL: OTHER:

PROTECTIVE GLOVES:

EYE PROTECTION: OTHER PROTECTIVE CLOTHING:

WORK/HYGIENIC PRACTICES

Recommended.

Not recommended as the sole means of controlling employee exposure.

N/A. N/A.

Solvent resistant rubber or plastic. Safety goggles or face shield.

Solvent resistant appron or overall is recommended:

Wash hands with soap after handling product.
Do not swallow and avoid contact with eyes.
KEEP OUT OF REACH OF CHILDREN.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE.

The observance of reasonable caution and reasonable personal cleanliness should be practiced.

ECTION VIII. EXPOSURE & PERSONAL PROTECTION:

See section VII.

SECTION IX PHYSICAL AND CHEMICAL:

Appearance is a blue liquid. It comes in bottles and boxed appropriately for shipment.

SECTION X. STABILITY:

The product is stable.

SECTION XI. TOXICOLOGY:

There is no direct data on the product itself. However, review of data on components suggests it is safe when used according to use-recommended guidelines.

SECTION XII. ENVIRONMENTAL:

This product is to be used in a closed system in accordance with manufacturer's guidelines- when this is done the product poses no known risk to the environment.

SECTION XIII. DISPOSAL:

SPILL AND WASTE DISPOSAL METHOD:

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

MSDS Pure Power Blue 10/13/10

3 of 4

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

Company: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION XV. REGULATORY

Materials comprising this product are TSCA registered. CERCLA; no RQ.

OSHA CFR 29 1910.1200(i).

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

SECTION XVI. OTHER INFORMATION:

NOTICE:

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, OP Products makes no guarantee or warranty of any kind expressed or implied with respect to the information contained herein.

This supersedes any previous information.

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910. 200

ompany: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

MEDICAL EMERGENCY TELEPHONE NO.: 800,424,9300

PRODUCT CODE: PRODUCT NAME: EFFECTIVE DATE:	Pure Power Blue, Toilet Deodorant / Detergent. Liquid toilet deodorant. June 01, 2010	
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SECTION I. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Nonionic Surfactant CAS # 127087-87-0

There is a mixture of specially selected bacteria strains contained in this product – all are non-pathogenic to humans. Other components consisting of between 3 & 8% by weight are considered a trade secret & under OSHA CFR 29 1910.1200(i) and are non-hazardous. Such components may be disclosed under emergency conditions to health professionals, if necessary.

Other Non-Hazardous Ingredients include: Fragrance, Dye..

SECTION II. PHYSICAL/CHEMICAL DATA:

BOILING POINT:	100 degrees F	
, HYAPOR PRESSURE:	N/A	
APOR DENSITY	N/A.	
ိြ SOL. IN WATER:	99%	
BULK DENSITY:	Varies	
FREEZING POINT:	N/A.	
APPEARANCE:	Blue Liquid.	
ODOR:	Pleasant Fragrance	

SECTION III. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: FLAMMABLE LIMIT:	N/A N/A	-
LFL:	N/A	
UFL:	N/A	

EXTINGUISHING MEDIA:

For surrounding fire, one may use foam, dry chemical, CO2 or water sprayer or fog.

FIRE AND EXPLOSION HAZARDS:

This product constitutes no significant fire hazard.

FIRE FIGHTING EQUIPMENT:

Use MSHA/NIOSH approved self-contained breathing & protective clothing. Cool exposed containers with water spray. Avoid breathing vapors, fumes or smoke.

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

ompany: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION IV. FIST AID AND REACTIVITY:

ACUTE:

Ingestion: May cause irritation and inflammation of mouth, throat and stomach. May cause stupor, nausea and vomiting leading to illness.

Inhalation: Irritating to nasal passages. May cause inflammation of lining of nose, throat and lungs.

Skin contact: May cause moderate injury (reddening and swelling).

Eye contact: May cause irritation.

Vapor may cause irritation, tearing and burning sensation.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: Contact a physician immediately.

Inhalation: Remove patient from contaminated area

Eye Contact: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

Skin contact: Remove contaminated clothing and wash contaminated skin with large amount of water. If irritation persists, contact a physician.

STABILITY: Stable

INCOMPATIBILITY: Strong alkali or caustic soda. HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OR BY- PRODUCTS: May form some oxides and ammoniac vapor.

If ingested consult a physician.

SECTION V. FIRE FIGHTING, ENVIRONMENTAL AND DISPOSAL INFORMATION:

SPILL AND WASTE DISPOSAL METHOD:

STEPS TO BE TAKEN IN CASE OF A SPILL: Sweep up and recover.

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

FIRE FIGHTING: Use normal protective clothing, NIOSH-approved protective gear and so on. This product normally poses no fire hazard.

SECTION VI: ACCIDENTAL RELEASE & HEALTH HAZARD DATA

SPILL AND WASTE DISPOSAL METHOD:

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

FIRE FIGHTING: Use normal protective clothing, NIOSH-approved protective gear and so on. This product normally poses no fire hazard.

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910. 1200

Company: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION VII. CONTROL MEASURES AND HANDLING:

RESPIRATORY PROTECTION:

OSHA approved respirators recommended.

VENTILATION:

Good general ventilation should be sufficient.

LOCAL EXHAUST

MECHANICAL:

SPECIAL: OTHER:

PROTECTIVE GLOVES: EYE PROTECTION:

OTHER PROTECTIVE CLOTHING: WORK/HYGIENIC PRACTICES

Recommended.

Not recommended as the sole means of controlling employee exposure.

N/A.

Solvent resistant rubber or plastic.

Safety goggles or face shield.

Solvent resistant apron or overall is recommended: Wash hands with soap after handling product. Do not swallow and avoid contact with eyes.

KEEP OUT OF REACH OF CHILDREN.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

The observance of reasonable caution and reasonable personal cleanliness should be practiced.

ECTION VIII. EXPOSURE & PERSONAL PROTECTION:

See section VII.

SECTION IX PHYSICAL AND CHEMICAL:

Appearance is a blue liquid. It comes in bottles and boxed appropriately for shipment.

SECTION X. STABILITY:

The product is stable.

SECTION XI. TOXICOLOGY:

There is no direct data on the product itself. However, review of data on components suggests it is safe when used according to use-recommended guidelines.

SECTION XII. ENVIRONMENTAL:

This product is to be used in a closed system in accordance with manufacturer's guidelines- when this is done the product poses no known risk to the environment.

SECTION XIII. DISPOSAL:

SPILL AND WASTE DISPOSAL METHOD:

WASTE DISPOSAL INFORMATION: Dispose of in compliance with all Federal, State and local laws and regulations. Bury in an approved sanitary landfill.

Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

MSDS Pure Power Blue 10/13/10

3 of 4

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910. 200

Company: OP Products Inc.

2111 Iowa Avenue, Suite G Riverside, Ca. 92507

SECTION XV. REGULATORY

Materials comprising this product are TSCA registered. CERCLA; no RQ.

OSHA CFR 29 1910.1200(i).

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in cool and dry place. KEEP OUT OF REACH OF CHILDREN.

SECTION XVI. OTHER INFORMATION:

NOTICE:

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, OP Products makes no guarantee or warranty of any kind expressed or implied with respect to the information contained herein.

This supersedes any previous information.



Material Data Safety Sheet

Section I Product Information/Preparat	ion Information		7/ #F	•	
dentity: Aqua-Kem Toss Ins	Product Use: H	olding tank deodora	ant		
fanufacturer's Name Thetford Corporation	Emergency Telepho (7	ne Number 34) 769-6000; (80	0) 424-9300 (0	HEMTRE	C-24 hrs)
ddress 7101 Jackson Road	Telephone Number	for Information (73	4) 769-6000	J	
Ann Arbor, Michigan 48103	Date Prepared 1	0-Apr-03	Prepared By	Janis M. Th	omson
Section II - Hazardous Ingredients/Iden	tity Information		e		
Hazardous Components Paraformaldehyde	CAS # 30525-89-4	OSHA PEL 0.75 ppm as formaldehyde	ACGIH 0.3 ppm C*		er Limits EL 2 ppm
Section III - Llegarde Identification and	Toyologiaal Infe	*Ceiling		-	
Section III - Hazards Identification and	mergency Overv		<u> </u>	<u>-</u>	
Warning! Inhalation caus			Skin sensitize	er.	
Inhalation: Produces irritation to upper respi	ratory tract & eyes. M	ay cause sensitizat	ion of the resp	iratory syst	em.
Skin Contact: Can cause severe injury-redo					
Eye contact: Causes irritation and tearing.					
Ingestion: Causes severe irritation and	inflammation of mouth	, throat and stomac	:h		
Chronic effects:					
Carcinogenicity. Formaldehyde is listed as animal evidence. Human	a carcinogen on IARO evidence shows no in	C, NTP, OSHA, AC	GIH, Carcinog cer.	enic potent	ial is based on
Teratogenicity: Not teratogenic,					
Mutagenicity: Not mutagenic in whole a symptoms.	nimal systems. Mutag	enic activity in bac	terial & mamm	alian cell cu	lture test
Sensitization to Material: Persons having preexisting of excessive exposure. High					ty to the hazard
Synergistic materials. None known.				_	
Toxological Information: Formaldehyde	LD ₅₀ : 270 mg/kg	(dermal, rabbit)	LC ₅₀ : 480 m	g/kg (vapo	, rat)
Paraformaldehyde	LD ₅₀ :>2000 mg/l	g (dermal, rabbit)	LC ₅₀ : 1070	ng/kg (dus	, rat, 4 hours)
Section IV - First Aid Procedures:			<u> </u>		
Inhalation: Remove victim to fresh air. Get	:	<u>=</u>			
Ingestion: Induce vomiting by giving 2 glass	ses of water and sticking	ng finger down thro	at. Get medica	al attention	immediately.
Skin: Flush contacted area with large amour	nts of water Wash wit	h soan and water.	Wash contami	nated cloth	ing before reuse
Eyes: Flush contacted area with large amoun immediately.					
Section V - Fire and Explosion Hazard	Data		<u></u>	<u> </u>	
Flash Point (Method used)	Flammable Limits t	y Volume	LEL		UEL
140°F (60°C) (RTCC)	Formaldehyde		7%		73%
Extinguishing Media Water, dry chemical, carbon dioxide or alc	cohol foam	Hazardous Combus Carbon monos		n dioxide	
Special Fire fighting Procedures		Auto-ignition Temp	erature	Sensitivity t	o Static Discharg
None.		300°C		Not ava	ilable
Unusual Fire and Explosion Hazards		Conditions of Flam		-	
NOBE		I Not flamman	le		
None Explosion Data	·	Not flammab Sensitivity to Mech			<u> </u>

Section VI - Personal Protective Equipme	ent	<u> </u>
Respiratory Protection:	nyde cartridge for small spills. Use a self-contained breat	thing apparatus for uncontrolled
Engineering Controls: Maintain adequate ventilation to keep vapors below	exposure limit.	
Protective Gloves:	Eye Protection:	
Rubber or neoprene gloves.	Face shield with safety glasses or safety goggl	es.
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact. Eyewash	station and safety shower.	
Work/Hygienic Practices	· · · · · · · · · · · · · · · · · · ·	
Avoid unnecessary and prolonged contact. Avoid b	reathing vapors. Wash thoroughly after handling.	
Section VII - Accidental Release Measure	es/Preventative Measures	
	ise a fan if available. Clean up small spills with water. Sater mixture. Mop area with plenty of clean, cold water.	
Waste Disposal Method Dispose of in accordance with federal, state and loc	al regulations.	
Precautions to be Taken in Handling and Storing		
Do not store above 110° F (43°C).		
Other Precautions		
Do not get in eyes or on skin. Do not inhale vapors.		
Section VIII - Physical/Chemical Charact	eristics	
Boiling Point	Specific Gravity (H20 = 1)	Physical State
NA	NA	Solid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
5 mm HgA @ 99°F (37°C)	120 - 170°C	0.05 - 1.0 ppm
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
1,03	Not applicable	Does not freeze
Solubility in Water	рН	Coeff, Water/Oil Dist,
90%	10% solution 9 - 10	Not determined
Appearance and Odor Blue granules with pungent odor		
Section IX - Reactivity Hazards		
Stability	Hazardous Polymerization	
x Stable	May Occur	
Unstable	x Will Not Occur	
Incompatibility (Materials to Avoid)		
Strong alkalis, inorganic acids, isocyanates, anhydrid	es, oxides	
Hazardous Decomposition or Byproducts	de and as here discid	
Thermal decomposition may produce carbon monoxid	de and carbon dioxide	
Conditions to Avoid Elevated temperatures		
Section XI - Shipping Information	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	 	<u> </u>
Shipping Instructions for Consumer Commodities: US transportation questions can be answered by The shipping information.	etford Corporation's Traffic Department. Consult TDG R	legulations for Canadian

DENTITY: GREY WATER ODOR CONTROL

X Will Not Occur

FORM NUMBER: 1603 Section! Manufacturer's Name Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMTREC 24 hrs) Thetford Corporation Telephone Number for Information Address (734) 769-6000 7101 Jackson Road Date Prepared Ann Arbor, Michigan 48103 21-Jan-98 Section II - Hazardous Ingredients/Identity Information Other Limits OSHA PEL **ACGIH TLV** Hazardous Components Glutaraldehyde (pentanedial) CAS # 111-30-8 0.05 ppm C C = Ceiling Section III - Physical/Chemical Characteristics Specific Gravity (H20 = 1) **Boiling Point** 1.03 Approximately 212°F Melting Point Vapor Pressure (mm Hg) Not applicable Unknown Evaporation Rate (Butyl Acetate = 1) Vapor Density (AIR = 1) Approximately water 1 joiubility in Water 4 - 5 100% Appearance and Odor Light purple liquid with light floral scent Section IV - Fire and Explosion Hazard Data Flammable Limits Flash Point (Method used) N/A Unknown N/A >200°F (TCC) Extinguishing Media Water spray, carbon dioxide, dry chemical or foam Special Fire fighting Procedures Wear self-contained breathing apparatus Unusual Fire and Explosion Hazards Section V - Reactivity Data Conditions to Avoid Stability Alkaline material X Stable Unstable Incompatibility (Materials to Avoid) Acids and bases and oxidizers Hazardous Decomposition or Byproducts Burning may produce carbon monoxide and/or carbon dioxide Canditions to Avoid Hazardous Polymerization None May Occur

Section VI - Health Hazard Data		
Route(s) of Entry: Inhalation?	Skin?	Ingestion? Toxic
Irritan	t Irritant	TOXIC
nealth Hazards (Acute and Chronic)	+ recult in hurns - Irritation of the s	kin Sensitizer.
Nausea and vomiting if swallowed. Eye contac	t may result in puris. Intradion of asthma	
May lead to skin rashes and skin allergies. May	y Cause signs and symptome of detime	
attack in hyper-reactive individuals.	IARC Monographs? OSHA R	egulated?
Carcinogenicity: NTP? No	No	No
Not mutagenic or teratogenic.		
of Syposium		
Signs and Symptoms of Exposure: Irritation of the skin, eyes and respiratory systems	em if in contact with liquid and/or vapor	s. Nausea and
vomiting if swallowed.		
Vollmenty it systemotics.		
Medical Conditions Generally Aggravated by Exposure:		
Skin allergies.		
OKIII WIISI G		
Emergency and First Aid Procedures:	and the state of t	legigate eves
er at a second area with large volumes of Wa	iter. Wash contaminated clothing befor	e reuse. Imgate eyes
for a minimum of 15 minutes. Call a physician	i. If swallowed, do not induce vomiting	<u> - </u>
Call a physician immediately.		
Section VII. Precautions for Safe Handling and Us	e.	
Steps to be Taken in Case Material is Released or Spilled	of water to a biological treatment. SVS	tem. Large
Steps to be Taken in Case Material is Released of Spines Small spills may be flushed with large volumes spills should be contained and transferred to s	of Water to a biological freatment Sys	material with dilute
	ultable containers. West dies fortiering	<u> </u>
ammonia solution.		
Waste Disposal Method	ideral approved facility.	
Incineration or biological treatment in State/Fe	defai approvou vessa,	
The interest of the state of th		
Precautions to be Taken in Handling and Storing Do not exceed 110°F.		
Other Precautions Do not get in eyes or on skin. Do not inhale	vapors. Wash thoroughly after handling	<u> </u>
Do not get at eyes of oil others		
Section VIII - Control Measures		
Respiratory Protection		
Air supplied mask if vapors are irritating to no	ose or eyes.	
Ventilation		
Local Exhaust	Special	D 20205757
Maintain adequate ventil	ation	necessary
Mechanical (General)	Other	applicable
Not necessary		applicable
Protective Gloves	Eye Protection Rec	ommended
Recommended	1 (180)	
Other Protective Clothing or Equipment	- OLIVOT	
Eyewash station and safety sh	IOAAEI	
Work/Hygienic Practices	Parina	
Avoid unnecessary and prolonged expo		
Section IX - Shipping Information Any transportation questions can be answered	ed by Thetford Corporation's Traffic De	epartment.
Any transportation questions can be answere	ou of Hiddela collections	

C ENTITY: DRAIN VALVE LUBRICANT

Section I		
Manufacturer's Name	Emergency Telephone Number	
Thetford Corporation	(734) 769-6000; (800) 424-9300 (CHEMTREC-24 hrs)
Address	Telephone Number for Information	
7101 Jackson Road	(734) 769-6000	
Ann Arbor Michigan 19103	Date Prepared 21-Jan-98	
Ann Arbor, Michigan 48103 Section II - Hazardous Ingredients/Identity Information		
		ther
Hazardous Components		mits
Nonionic Surfactant	Not established	
		
Section III - Physical/Chemical Characteristics		
Boiling Point	Specific Gravity (H20 = 1)	
212°F	1.006	
Vapor Pressure (mm Hg)	Melting Point	
Unknown	Not applicable	
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	
Unknown	Unknown	<u> </u>
Tubility in Water 100%	рн 5 - 7	
Appearance and Odor	3-7	<u> </u>
Light red liquid		
Section IV - Fire and Explosion Hazard Data		
Flash Point (Method used)	Flammable Limits LEL	UEL
> 200°F (TCC)	Unknown	V/A N/A
Extinguishing Media		
Water spray, carbon dioxide, dry chemical or foan	<u> </u>	
Special Fire fighting Procedures		
Self-contained breathing apparatus		<u> </u>
Unusual Fire and Explosion Hazards		
None		
Section V - Reactivity Data	Cdil	l .
Stablity X Stable	Conditions to Avoid None	
Unstable	None	<u> </u>
Incompatibility (Materials to Avoid)	,, , , , , , , , , , , , , , , , , , ,	
Strong oxidizing or reducing agents		
Hazardous Decomposition or Byproducts		
, , ,		
None		
u _{szardous} Polymerization	Conditions to Avoid	
May Occur	None	
X Will Not Occur	<u> </u>	

Section VI - Health Hazard Data			R .
Röute(s) of Entry: Inhal	ation?	Skin?	Ingestion?
	No	No_	Not toxic
nealth Hazards (Acute and Chronic)	i	, , , , , , , , , , , , , , , , , , , 	
Eye irritation.		 	
		, , ,	
		· · · · · · · · · · · · · · · · · · ·	
Carcinogenicity: NTP?	IARC Monog	raphs?	OSHA Regulated?
No_	No		No.
· · · · · · · · · · · · · · · · · · ·			·····
Signs and Symptoms of Exposure:	·· -	- ,-,	
Burning sensation if splashed in th	e eves.		
Sering Series Series Control of the	, , , , , , , , , , , , , , , , , , , ,		
			
Medical Conditions Generally Aggravated by Expos	sure:	· · · · · · · · · · · · · · · · · · ·	
None known.			
	1		
Emergency and First Aid Procedures:			
For skin contact, wash thoroughly		ap and water. Irrig	gate eyes for a
minimum of 15 minutes. Call a ph	nysician.		
			
Section Vil - Precautions for Safe Han			· · · · · · · · · · · · · · · · · · ·
Steps to be Taken in Case Material is Released or			
Soak up with absorbent material.	riush remainder with larg	e amounts of wate	r
	· · · · · · · · · · · · · · · · · · ·		
Magaza Biopagal Mathail			
Waste Disposal Method Dispose of with liquid waste in ac	cordance with local state	and federal regulat	tions
Dispose of With Inquire Waste III do	Service title local, state	Julia lagarar legala	
Precautions to be Taken in Handling and Storing	·		
Do not store above 110°F.			
Other Precautions	<u>. </u>		
Avoid eye and skin contact. Avoi	d breathing vapor or mist,	if generated.	
Section VIII - Control Measures		: :	
Respiratory Protection			
Not required			
Ventilation	·		
Local Exhaust		Special	
	quate ventilation		Not necessary
Mechanical (General)	ì ·	Other	Nice was a summary
Not necessary	r — · · · — · - · · · · · · · · · · · · ·	Fig. 6. 4. 4.	Not necessary
Protective Gloves		Eye Protection.	Pagamman dod
Recommended			Recommended
Other Protective Clothing or Equipment Eyewash station, safety shower.	Protective clothing		
Work/Hygienic Practices			
Avoid unnecessary and prolonged	exposure. Wash thoroug	hly after handling	
Section IX - Shipping Information		, . , <u></u>	
Pecupi iv - Obindino minemanon	Į.		

Section I Product Information/Prepara Identity: Tissue Digester Manufacturer's Name Thetford Corporation Address 7101 Jackson Road Ann Arbor, Michigan 48103 Section II - Hazardous Ingredients/Idea Hazardous Components	Product Use: Tiss				
Thetford Corporation Address 7101 Jackson Road Ann Arbor, Michigan 48103 Section II - Hazardous Ingredients/Ider		ue digester for u	se in holdina i	tanks	
Ann Arbor, Michigan 48103 Section II - Hazardous Ingredients/Ider	Emergency Telephone (73		 		REC-24 hrs)
Section II - Hazardous Ingredients/Idea	Telephone Number fo			<u> </u>	
	Date Prepared 1-F	eb-10	Prepared By	Janis M	Thomson
			Toparou Dy	901113 14	i momson
TIGEGRADUS CONTIDUNIENTS	CAS#	OSHA PEL	ACGIH		Other Limits
Cellulase Sodium Chloride Citric Acid	9012-54-8 7647-14-5 77-92-9		7.0011	N No	one established one established one established
Section III - Hazards Identification and	Toxological Inform	nation			
	mergency Overvie		1		
V	Warning! Irritating to skin	and eyes.			
Route(s) of Entry: Inhalation: Irritant by inhalation. Dust may	cause allergic reaction.				
Skin Contact: Produces irritation.					<u> </u>
Eye contact: Causes irritation.		,			
Ingestion: Elevated blood pressure if in	gested due to sodium chi	oride content.			
Chronic effects:					
Carcinogenicity. Not carcinogenic.					
Teratogenicity: Not teratogenic.					
Mutagenicity: Not mutagenic.	· · · · · · · · · · · · · · · · · · ·			<u>-</u>	
Sensitization to Material: Allergic reaction to those su	septible.		-		
Synergistic materials. None known.	· <u> </u>				<u> </u>
Toxological Information: Calculated for mixture	LD ₅₀ : 2970 mg/kg		LC ₅₀ :		
	LD ₅₀ :		LC ₅₀ :	<u>.</u>	<u> </u>
Section IV - First Aid Procedures:	1 - 30	-		-	
<u>-</u>	call a physican.				
		inger down throa	t. Get medica	al attenti	
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass	see of water and sticking	•		ai allerii	on immediately.
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass					on immediately.
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w	ater. Wash clothing befo	re reuse.	cal attention		<u> </u>
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu	ater. Wash clothing before	re reuse.	cal attention		<u> </u>
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard	ater. Wash clothing befortes with large amounts of	re reuse. water. Get med	-		tely.
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard	ater. Wash clothing before	re reuse. water. Get med	LEL N/A		
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard Flash Point (Method used) None	ater. Wash clothing befortes with large amounts of Data Flammable Limits by V N/A	re reuse. water. Get med	LEL N/A		tely.
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard Flash Point (Method used) None Extinguishing Media Water, dry chemical, or carbon dioxide	ater. Wash clothing befortes with large amounts of Data Flammable Limits by V	water. Get med olume uzardous Combust	LEL N/A ion Products	immedia	tely. UEL N/A
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard Flash Point (Method used) None Extinguishing Media Water, dry chemical, or carbon dioxide	ater. Wash clothing befortes with large amounts of Data Flammable Limits by V	water. Get medicular colume szardous Combust None	LEL N/A ion Products	immedia Sensitiv	tely. UEL N/A ty to Static Discharge
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w. Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard Flash Point (Method used) None Extinguishing Media Water, dry chemical, or carbon dioxide Special Fire fighting Procedures None. Unusual Fire and Explosion Hazards	rater. Wash clothing before tes with large amounts of Data Flammable Limits by V N/A Ha	water. Get medicular colume Izardous Combust None Ito-ignition Temper Not available	LEL N/A ion Products rature	immedia Sensitiv	tely. UEL N/A
Inhalation: If respiratory irritation develops, Ingestion: Induce vomiting by giving 2 glass Skin: Wash contacted area with soap and w Eyes: Irrigate eyes for a minimum of 15 minu Section V - Fire and Explosion Hazard Flash Point (Method used) None Extinguishing Media Water, dry chemical, or carbon dioxide Special Fire fighting Procedures	ater. Wash clothing before tes with large amounts of Data Flammable Limits by VIN/A Ha	re reuse. water. Get med clume zardous Combust None sto-ignition Temper	LEL N/A ion Products rature	immedia Sensitiv	tely. UEL N/A ty to Static Discharge

Section VI - Personal Protective Equipment	ψ : = · · · · · ·	<u> </u>
Respiratory Protection:		
Dust mask (NIOSH approved)		
Engineering Controls: Maintain adequate ventilation.		
Protective Gloves:	Eye Protection:	
Rubber gloves.	Safety glasses or safety goggles.	
Other Protective Clothing or Equipment:		
Protective clothing to avoid skin contact. Eyewash station a	and safety shower.	
Work/Hygienic Practices		
Avoid skin contact and inhalation of dust. Do not get in eyes		
Section VII - Accidental Release Measures/Pre	ventative Measures	`\ -!
Steps to be Taken in Case Material is Released or Spilled:		
Minimize dusting and prevent distribution of airborne dust, §	Sweep up and collect in suitable containers. Mop area	with clean, clear water.
Waste Disposal Method Dispose of in accordance with federal, state and local regula	ations.	
Precautions to be Taken in Handling and Storing To prolong life, store in dry containers at 40°F (4°C) below 7.	5% humidity.	
Other Precautions		
Do not get in eyes or on skin. Do not inhale dust. Wash tho		
Section VIII - Physical/Chemical Characteristic		<u> </u>
Boiling Point	Specific Gravity (H20 = 1)	Physical State
Not applicable.	Not applicable.	Solid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
Not determined	Not determined	Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Not applicable	Does not freeze
Solubility in Water	pH	Coeff, Water/Oil Dist,
Complete if less than 36% solution	10% solution 3.75 - 4.75	Not determined
Appearance and Odor		
Rose colored particles with yeasty odor		
Section IX - Reactivity Hazards		
	Hazardous Polymerization	
X Stable	May Occur	
Unstable	x Will Not Occur	
Incompatibility (Materials to Avoid) Concentrated acids such as sulfuric or nitric		
Hazardous Decomposition or Byproducts		ļ
None	,	
Conditions to Avoid		
High humidity and elevated temperatures		
Section XI - Shipping Information		
Transportation Status:	Proper Shipping Name: 0	lass:
US DOT: Not Regulated		IA
Canadian TDG: Not Regulated		í IA
G		j ·
For other modes of transportation, consult the individual regula	ations (IATA, IMDG) for shipping information.	
•		

SENTITY: LEVEL GAUGE CLEANER

Section I				
Manufacturer's Name	Emergency Telephone Number			
Thetford Corporation	(734) 769-6000; (800)		REC-24 hrs)	
Address	Telephone Number for Information	n		
7101 Jackson Road	(734) 769-6000			
40400	Date Prepared			
Ann Arbor, Michigan 48103 Section II - Hazardous Ingredients/Identity Infor	21-Jan-98			
29COOU II: Hasaldone indiadente identify and	Hadon	Other		
Hazardous Components	OSHA PEL ACGIH TI	- I · ·		
Sodium chloride CAS # 7647-15-4	Not establis		 	
Cellulase	Not establis			
Surfactant	Not establis		-	
Odridotant				
Section III - Physical/Chemical Characteristics				
Boiling Point	Specific Gravity (H20 = 1)			
Not applicable		Not applicable		
Vapor Pressure (mm Hg)	Melting Point			
Not applicable		Not available		
ipor Density (AIR = 1)	Evaporation Rate (Butyl Acetate	= 1)		
Not applicable		Not applicable		
Solubility in Water	pH of 10% Solution			
Complete if less than 36% solution	2 -4			
Appearance and Odor				
Light blue particles with fragrant odor				
Section IV - Fire and Explosion Hazard Data				
Flash Point (Method used)	Flammable Limits	LEL	uel n/a	
None	None	N/A	IV/A	
Extinguishing Media				
Water, carbon dioxide, dry chemical		`		
Special Fire fighting Procedures	void inhalation of dust			
Adequate precautions should be taken to a	Void Illitalation of dust			
Unusual Fire and Explosion Hazards None known				
Section V - Reactivity Data			-	
Stability	Conditions to Avoid			
X Stable	None			
Unstable	· · · · · · · · · · · · · · · · · · ·			
Incompatibility (Materials to Avoid)				
Concentrated acids such as sulfuric or nitr	ic			
Hazardous Decomposition or Byproducts				
None				
lazardous Polymerization	Conditions to Avoid			
May Occur	None			
X Will Not Occur				

Section VI - Health Haza	ard Data			
Jte(s) of Entry:	Inhalation?			gestion?
	Yes- Irritant		Irritant	Toxic
Health Hazards (Acute and Chro	oinc)			
Dust may cause skir	n or respiratory irritation or allerg	gic reaction. Ing	estion elevates blood p	oressure.
Also an eye irritant.				
				
Carcinogenicity: N		ARC Monographs?	OSHA Regula	
·	No	No	NoNo	
				·
				<u> </u>
Signs and Symptoms of Exposu	ire:		41 F.41	
	I respiratory system if in contact	t with dust. Irrit	ation of the eyes. Elev	/ateo
blood pressure if ing	gested.			
Medical Conditions Generally A	ggravated by Exposure:		4!L1_	
Elevated blood pres	sure if ingested. Allergic reaction	n to those susce	eptible.	
		_ 		
Emergency and First Aid Proces	dures:	16 taula.	-4:4:1:	1-1
For accidental eye of	contact, rinse with water for 15	minutes. If irrite	ation exists, call a phys	sician.
If respiratory irritation	on develops, call a physician. If	swallowed, give	e 2 glasses of water ar	id stick
finger down the thr	oat, induce vomiting, call a phys	sician.		
	is for Safe Handling and Use	<u></u>		
Steps to be Taken in Case Mat	erial is Released or Spilled			_lmaain
 Minimize dusting ar 	nd prevent distribution of airborn	ie dust. Sweep	up and collect in suitar	ole containers.
			<u></u>	····
			_ _ _ _	
Waste Disposal Method			a water quality stands	-do
	lve in sufficient amount of wate	r to meet existin	g water quality standa	ius
	or federal regulations.	_ -		
Precautions to be Taken in Ha	Indling and Storing	arrana C and bak	75% humidity	
	re in dry containers below 70 de	grees r and beit	JW 75% Hulfilalty.	
Other Precautions	or the following them March	. alal-le ofte	r bondling	
Avoid skin contact	and/or inhalation of dust. Wash	thoroughly arte	i nanding.	
Section VIII - Control N	leasures			
Respiratory Protection	not be to the control of			
	Dust mask (NIOSH approved)			
Ventilation			ecial	
Local Exhaust) Sp	Not neces	ecary
	As needed			55di y
Mechanical (Gene			her Not neces	ecan/
Dust collectors to p	prevent distribution of airborne of			33d1 Y
Protective Gloves		EA	e Protection Recomme	andad
	commended		Recomme	ilidea
Other Protective Clothing or E				
Eyewash and safet	y snower		<u> </u>	
Work/Hygienic Practices	and an language average			
	and prolonged exposures.		_	
Section IX - Shipping I	nformation questions can be answered by	Thetford Corner	ation's Traffic Departr	nent.
Any transportation	diestions can be answered by	Theriora Corpora	duon de mante popular	

	tion Information	Ï
Identity: Toilet Seal Lubricant and Conditioner	Product Use: Lubricate and condition seal	<u>··</u>
Manufacturer's Name Thetford Corporation	Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMT	REC-24 hrs)
Address 7101 Jackson Road	Telephone Number for Information (734) 769-6000	
Ann Arbor, Michigan 48103	Date Prepared 16-Sept-05 Prepared By Janis N	l. Thomson
Section II - Hazardous Ingredients/Iden		1
Hazardous Components Nonionic Surfactant		Other Limits one Established
Section III - Hazards Identification and	Toxological Information	
Ε	mergency Overview:	1
	Warning! Causes eye irritation.	
Route(s) of Entry: Inhalation: Not an inhalation hazard.		
Skin Contact: Not a skin hazard.		- †
Eye contact: Causes irritation.		
Ingestion: Not toxic.		
Chronic effects: Carcinogenicity: Not carcinogenic.		
T		
Teratogenicity: Not teratogenic.		
Mutagenicity: Not teratogenic.		
	-	
Mutagenicity: Not mutagenic. Sensitization to Material: None known.		
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known.	LD ₅₀ ;>5 g/kg (oral, rat)	
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known.	LD ₅₀ :>5 g/kg (oral, rat)	
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information:	LD ₅₀ : >5 g/kg (oral, rat) LC ₅₀ : LC ₅₀ :	
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures:		
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information:	LD ₅₀ : LC ₅₀ :	
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g	LD ₅₀ : LC ₅₀ :	
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun	LD ₅₀ : LC ₅₀ :	lical attention
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun Eyes: Flush contacted area with large amoun	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med	dical attention
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med	dical attention UEL N/A
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard Flash Point (Method used) >200°F (>93°C) (RTCC)	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med Data Flammable Limits by Volume N/A Hazardous Combustion Products	UEL
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard Islash Point (Method used) > 200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foa	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med Data Flammable Limits by Volume N/A Hazardous Combustion Products None.	UEL N/A
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard Islash Point (Method used) > 200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foa	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med Data Flammable Limits by Volume N/A Hazardous Combustion Products None. Auto-ignition Temperature Sensitivi	UEL N/A
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard Inflash Point (Method used) >200°F (>93°C) (RTCC) Extlinguishing Media Water, dry chemical, carbon dioxide or foat	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med Data Flammable Limits by Volume N/A Hazardous Combustion Products None. Auto-ignition Temperature Sensitivi	UEL N/A
Mutagenicity: Not mutagenic. Sensitization to Material: None known. Synergistic materials: None known. Toxological Information: Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink 2 g Skin: Flush contacted area with large amoun immediately. Section V - Fire and Explosion Hazard Inflash Point (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foat Special Fire fighting Procedures None.	glasses of water. Contact a physician. Its of water. Wash with soap and water. Its of water. Irrigate eyes for a minimum of 15 minutes. Get med Data Flammable Limits by Volume N/A Hazardous Combustion Products None. Auto-ignition Temperature Not available Not a	UEL. N/A

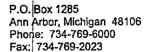
Section VI - Personal Protective Equipment		<u> </u>
Respiratory Protection: Not required,		
Engineering Controls: Maintain adequate ventilation.		
Protective Gloves:	Eye Protection:	
Rubber gloves.	Safety glasses or safety goggles.	
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact. Eyewash station a	nd safety shower.	
Work/Hygienic Practices		<u> </u>
Avoid unnecessary contact. Wash thoroughly after handling	especially before eating, drinking or smoking	
Section VII - Accidental Release Measures/Pre-	ventative Measures	
Steps to be Taken in Case Material is Released or Spilled:		<u> </u>
Eliminate sources of ignition. Clean up small spills with wate containers for disposal. Mop area with plenty of clean, cold	er. Soak up larger spills with absorbent material. Place water.	used absorbent in closed
Waste Disposal Method Dispose of in accordance with federal, state and local regula	itions.	
Precautions to be Taken in Handling and Storing Do not store above 110°F (43°C). Do not freeze.		
Other Precautions		
Spilled material may be slippery. Do not get liquid in eyes. \		
Section VIII - Physical/Chemical Characteristic	S	
Boiling Point	Specific Gravity (H20 = 1)	Physical State
210° F (99°C)	1.006	Liquid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
Not determined	Not applicable	Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Unknown	32°F (0°C)
	pH	Coeff. Water/Oil Dist.
Complete	5 - 7	Not determined
Appearance and Odor Light blue liquid		
Section IX - Reactivity Hazards		1
	Hazardous Polymerization	
X Stable	May Occur	
Unstable	x Will Not Occur	
Incompatibility (Materials to Avoid) Strong oxidizing or reducing agents		
Hazardous Decomposition or Byproducts None		
Conditions to Avoid Elevated temperatures		-
Section XI - Shipping Information		<u> </u>
Transportation Status:	Proper Shipping Name: C	ass:
US DOT: Not Regulated	NA NA	
Canadian TDG: Not Regulated	•••	
For other modes of transportation, consult the individual regula	utions (IATA, IMDG) for shipping information.	

Section I Product Information/Prepa	ration Information	1			†
Identity: Foaming Aqua-Clean	Product Use:	Multipurpose surface	cleaner		
Manufacturer's Name Thetford Corporation		Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMTREC-			
Address 7101 Jackson Road	Telephone Numbe	er for Information (73	4) 769-6000		
Ann Arbor, MI 48103	Date Prepared	1-Feb-10	Prepared By	Janis N	Thomson
Section II - Hazardous Ingredients/Id	entity Information	<u> </u>			
Hazardous Components Nonionic surfactant Citric Acid	CAS # 68439-46-3 77-92-9	OSHA PEL	ACGIH	N	Other Limits one established one established
Section III - Hazards Identification an	d Toxological Inf	ormation	,	· ·	<u> </u>
,	Emergency Over	view:	-		
	Warning! Causes e	ye irritation.			
Route(s) of Entry: Inhalation: Not an inhalation hazard.]
Skin Contact: Not a skin irritant.			,		<u>;</u>
Eye contact: Causes irritation.,	. -				<u> </u>
Ingestion: Non toxic if ingested.					
Chronic effects:					
Carcinogenicity: Not carcinogenic.					
, , , , , , , , , , , , , , , , , , ,					
Teratogenicity: Not teratogenic.					}
Mutagenicity: Not mutagenic.	 				
Mutagenicity: Not mutagenic. Sensitization to Material: None known					
Sensitization to Material: None known	LD ₅₀ : 21,857 n	ng/kg (oral, rat)	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture	LD ₅₀ : 21,857 n	ng/kg (oral, rat)			
Sensitization to Material: None known Synergistic materials. None known		ng/kg (oral, rat)	LC ₅₀ :		417
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture		ng/kg (oral, rat)			
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures:	LD ₅₀ :				
Sensitization to Material: None known Synergistic materials' None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink	LD ₅₀ :	ntact a physician.	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat	LD ₅₀ : 2 glasses of water. Corer. If irritation persists,	ntact a physician. get medical attentior	LC ₅₀ :	nmedia	ely.
Sensitization to Material: None known Synergistic materials' None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink	LD ₅₀ : , 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1	ntact a physician. get medical attentior	LC ₅₀ :	nmedial	ely.
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of water	LD ₅₀ : , 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1	ntact a physician. get medical attention 5 minutes. Get medi	LC ₅₀ :	nmedia	ely. UEL NA
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of wat Section V - Fire and Explosion Hazar Flash Point (Method used)	LD ₅₀ : 2 glasses of water. Corer. If irritation persists, ater for a minimum of 18 rd Data Flammable Limits	ntact a physician. get medical attention 5 minutes. Get medi	n. LEL NA		UEL NA
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of wat Section V - Fire and Explosion Hazar Flash Point (Method used) >200°F (>93°C) (RTCC)	LD ₅₀ : 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1st ater for a	get medical attention 5 minutes. Get medi by Volume Hazardous Combu	LC ₅₀ :	n dioxic	UEL NA
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of wat Section V - Fire and Explosion Hazar Flash Point (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, carbon dioxide, dry chemical, or foa	LD ₅₀ : 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1st ater for a	get medical attention minutes. Get medi by Volume Hazardous Combus Carbon monos	LC ₅₀ : cal attention in LEL NA stion Products kide and carbo erature	n dioxic	UEL NA
Sensitization to Material: None known Synergistic materials' None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of wat Section V - Fire and Explosion Hazar Flash Point (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, carbon dioxide, dry chemical, or foa	LD ₅₀ : 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1st ater for a	get medical attention 5 minutes. Get medi by Volume Hazardous Combus Carbon monos	LC ₅₀ : n. LEL NA stion Products kide and carbo	n dioxic	UEL NA le
Sensitization to Material: None known Synergistic materials: None known Toxological Information: Calculated for mixture Section IV - First Aid Procedures: Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink Skin: Wash thoroughly with soap and wat Eyes: Flush eyes with large amounts of wat Section V - Fire and Explosion Hazar Flash Point (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, carbon dioxide, dry chemical, or foat Special Fire fighting Procedures None	LD ₅₀ : 2 glasses of water. Corer. If irritation persists, ater for a minimum of 1st ater for a	patact a physician. get medical attention minutes. Get medical by Volume Hazardous Combus Carbon monos Auto-ignition Temp Not applical	LC ₅₀ : n. LEL NA stion Products kide and carbo erature ole mability	n dioxic	UEL NA le

Section VI - Personal Protective Equipment		<u> </u>
Respiratory Protection:		
Not required.		
Engineering Controls: Maintain adequate ventilation.		
Protective Gloves:	Eye Protection:	
Rubber gloves	Safety glasses or goggles	
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact. Eyewash station a	nd safety shower.	
Work/Hygienic Practices	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Avoid unnessary contact. Wash thoroughly after handling	especially before eating, drinking or smoking	
Section VII - Accidental Release Measures/Pre		<u> </u>
Steps to be Taken in Case Material is Released or Spilled:	vernative incasures	_ <u>!</u>
Eliminate sources of ignition. Clean up small spills with water closed containers for disposal. Mop the area with plenty of c		used absorbent in
Waste Disposal Method Dispose of in accordance with federal, state and local regul	ations.	
Precautions to be Taken in Handling and Storing Store below 100°F (38°C). Do not freeze.		
Other Precautions Spilled material may be slippery. Do not get liquid in eyes. V	Wash thoroughly after handling.	
Section VIII - Physical/Chemical/Characteristic	S SAFE COLLEGE	
Boiling Point	Specific Gravity (H20 = 1)	Physical State
210°F'(99°C)	1.062	Liquid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
Not determined	NA NA	Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Similar to water >1	32°F (0°C)
Solubility in Water	pH	Coeff, Water/Oil Dist.
Complete	2.8	Not determined
Appearance and Odor	1	
Clear, colorless liquid with detergent odor.		
Section IX - Reactivity Hazards	* 9	1
Stability	Hazardous Polymerization	
X Stable	May Occur	
Unstable	x Will Not Occur	
Incompatibility (Materials to Avoid) Strong oxidizing materials.		
Hazardous Decomposition or Byproducts Thermal decomposition may produce carbon monoxide and c	earbon dioxide.	
Conditions to Avoid Elevated temperatures.		
Section XI - Shipping Information	,	†
Transportation Status:	Proper Shipping Name:	Class:
US DOT: Not Regulated		NA
Canadian TDG: Not Regulated		NA
For other modes of transportation, consult the individual regu		
'		
1		

Section Product Information/Preparation	n Information	e egin y he		-	
dentity: Fresh Water Tank Sanitizer	Product Use: Sa	anitize fresh water h	olding tank		
Manufacturer's Name Thetford Corporation	Emergency Telephot (7)	ne Number 34) 769-6000; (800) 424-9300 (C	HEMTRE	C-24 hrs)
Address 7101 Jackson Road	Telephone Number (for Information (734	769-6000		
Ann Arbor, Michigan 48103	Date Prepared 18	3-Sep-08	Prepared By J	anis M. T	l homson
Section II - Hazardous Ingredients/Identi					1
Hazardous Components Alkyl dimethyl benzyl ammonium chloride Alkyl dimethyl ethylbenzyl ammonium chloride	CAS # 68391-01-5 68956-79-6	OSHA PEL	ACGIH	None	her Limits established established
Section III - Hazards Identification and To				92°	
	ergency Overvi] .
Warning! Corro	sive to eyes and ski	n. Harmful if swallo	wed.		
Route(s) of Entry: Inhalation; Excessive inhalation may cause inf	itation of respiratory	system, dizziness a	ind nausea.		
Skin Contact: May be corrosive to the skin.				· -	-
Eye contact: May be corrosive to the eyes.		<u> </u>			
Ingestion: Harmful in swallowed.					
Chronic effects:					
Carcinogenicity. Not carcinogenic.					
Teratogenicity: Not teratogenic.					
Mutagenicity: Not mutagenic.					
Sensitization to Material: None known	·-		_		_
Sensitization to Material: None known					
Sensitization to Material: None known Synergistic materials: None known.	LDso; =<500 ma/k	co (oral, rat)	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known.		g (oral, rat)	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture	LD ₅₀ : =<500 mg/k LD ₅₀ :	ig (oral, rat)	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous Ingredient mixture Section IV - First Aid Procedures:	LD ₅₀ :				
	LD ₅₀ :	nptoms persist.			
Sensitization to Material: None known Synergistic materials. None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medical ingestion: Do not induce vomiting. Get medical	LD ₅₀ : edical attention if syn cal attention immedia	nptoms persist.	LC ₅₀ :	othing be	fore reuse:
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get mixture	LD ₅₀ : edical attention if syn cal attention immedia and water. Seek me	nptoms persist. stely. dical attention or ad	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medic ingestion: Do not induce vomiting. Get medic Skin: Flush area with water. Wash with soap a Eyes: Flush contacted area with large amounts immediately.	LD ₅₀ : edical attention if syn cal attention immedia and water. Seek me of water, Irrigate ey	nptoms persist. stely. dical attention or ad	LC ₅₀ :		
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medical linguistion: Do not induce vomiting. Get medical linguistion: Flush area with water. Wash with soap at Eyes: Flush contacted area with large amounts immediately. Section V - Fire and Explosion Hazard D	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey	nptoms persist. ately. dical attention or ad yes for a minimum o	LC ₅₀ :		al attention
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medic Ingestion: Do not induce vomiting. Get medic Skin: Flush area with water. Wash with soap a Eyes: Flush contacted area with large amounts	LD ₅₀ : edical attention if syn cal attention immedia and water. Seek me of water, Irrigate ey	nptoms persist. ately. dical attention or ad yes for a minimum o	LC ₅₀ :		•
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medic Ingestion: Do not induce vomiting. Get medic Skin: Flush area with water. Wash with soap a Eyes: Flush contacted area with large amounts immediately. Section V - Fire and Explosion Hazard D Flash Point (Method used) >200°F (>93°C) (RTCC)	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey ata Flammable Limits b N/A	nptoms persist. ately. dical attention or ad yes for a minimum o	lvice. Wash cl of 15 minutes. C	Get medic	UEL N/A
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get madicular ingestion: Do not induce vomiting. Get medicular ingestion: Do not induce vomiting. Get medicular ingestion: Flush area with water. Wash with soap at Eyes: Flush contacted area with large amounts immediately. Section V - Fire and Explosion Hazard Description (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foar	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey ata Flammable Limits b N/A	nptoms persist. Idely. Idical attention or adves for a minimum of the property Volume Hazardous Combus	LEL N/A tion Products on and nitroge	Get medic	UEL N/A
Synergistic materials: None known. Foxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get madicular formation: Do not induce vomiting. Get medicular formation: Flush area with water. Wash with soap at Eyes: Flush contacted area with large amounts immediately. Section V - Fire and Explosion Hazard Deflash Point (Method used) >200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foar	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey ata Flammable Limits b N/A	nptoms persist. Idical attention or adves for a minimum of the control of the co	LC ₅₀ : Vice. Wash cl of 15 minutes. LEL N/A tion Products on and nitroge	Get medic	UEL N/A to Static Discharg
Sensitization to Material: None known Synergistic materials: None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get medical linguistion: Do not induce vomiting. Get medical linguistion: Do not induce vomiting. Get medical linguistion: Flush area with water. Wash with soap at Eyes: Flush contacted area with large amounts immediately. Section V - Fire and Explosion Hazard Deflash Point (Method used) > 200°F (>93°C) (RTCC) Extinguishing Media Water, dry chemical, carbon dioxide or foar Special Fire fighting Procedures Cool fire-exposed containers with water.	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey ata Flammable Limits b N/A	nptoms persist. Idical attention or actives for a minimum of the control of the	LC ₅₀ : Vice. Wash cl of 15 minutes. LEL N/A tion Products on and nitroge erature	Get medic n, ammor Sensitivity	UEL N/A hia to Static Discharg
Sensitization to Material: None known Synergistic materials' None known. Toxological Information: Hazardous ingredient mixture. Section IV - First Aid Procedures: Inhalation: Remove victim to fresh air. Get madice to make the sense of	LD ₅₀ : edical attention if syntal attention immedia and water. Seek me of water, Irrigate ey ata Flammable Limits b N/A	nptoms persist. stely. dical attention or ac yes for a minimum of y Volume Hazardous Combus Oxides of carb Auto-ignition Tempe	LC ₅₀ : lvice. Wash cl of 15 minutes. LEL N/A tion Products on and nitroge erature	Get medic n, ammor Sensitivity	UEL N/A to Static Discharg

Section VI - Personal Protective Equipment	<u>-</u>			
Respiratory Protection: Not required.				
Engineering Controls: Maintain adequate ventilation.				
Protective Gloves:	Eye Protection:			
Rubber gloves.	Safety glasses or safety goggles, face shield if splash	ing is possible .		
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact. Eyewash station a	ind safety shower,			
Work/Hygienic Practices				
Avoid unnecessary contact. Wash thoroughly after handling	especially before eating, drinking or smoking.			
Section VII - Accidental Release Measures/Pre		<u> </u>		
Steps to be Taken in Case Material is Released or Spilled:				
Eliminate sources of ignition. Clean up small spills with wat containers for disposal. Mop area with plenty of clean, cold	er. Soak up larger spills with absorbent material. Place water.	used absorbent in closed		
Waste Disposal Method Dispose of in accordance with federal, state and local regula	ations.			
Precautions to be Taken in Handling and Storing	- WATER FOOD OR FEED BY STORAGE OF BUSINESS	DAI		
Store in cool, well ventilated area. DO NOT CONTAMINATI	E WATER, FOOD OR FEED BY STORAGE OR DISPO	SAL.		
Other Precautions Spilled material may be slippery. Avoid breathing vapors or	miete. Do not get liquid in evies or an ekin. Week thorr	wohly after bandling		
Section VIII - Physical/Chemical Characteristic		bugnity after flatfolling.		
Boiling Point	Specific Gravity (H20 = 1)	Physical State		
Not determined	1.00	Liquid		
		Odor Threshold		
Vapor Pressure (mm Hg)	Melting Point	Not determined		
Not determined	Not applicable	-		
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point		
Not determined	Estimated slower than ethyl ether	32°F (0°C)		
Solubility in Water	pH	Coeff, Water/Oil Dist.		
Complete	7-8	Not determined		
Appearance and Odor				
Clear, colorless liquid		1		
Section IX - Reactivity Hazards		<u> </u>		
Stability	Hazardous Polymerization			
x Stable	May Occur			
Unstable	x Will Not Occur	<u> </u>		
Incompatibility (Materials to Avoid)				
Strong acids and anionic compounds Hazardous Decomposition or Byproducts		<u>!</u>		
Thermal decomposition may produce oxides of carbon and n	itrogen, ammonia			
Conditions to Avoid				
Elevated temperatures, sparks and open flame		<u> </u>		
Section XI - Shipping Information		<u>. </u>		
Transportation Status:		Class:		
US DOT: Regulated	•••••	ORM D		
Canadian TDG: Regulated	Consumer Commodity	ORM D		
Regulated under other modes of transportation as UN1760 line and TDG in Canada, for shipping information.	mited quantities. Consult the Individual regulations, IAT	A via air, IMDG via water		





CPSIA CERTIFICATION OF COMPLIANCE

Product: Thetford Fresh Water Tank Sanitizer

1. Laws and Regulations for which compliance is certified:

Packaging Requirement for Pesticides and Devices – 40 CFR Part 157 Poison Prevention Packaging Act – 16 CFR Part 1700

2. Party Certifying Compliance:

Great Lakes Marketing 3103 Executive Pkwy, Ste 106 Toledo, OH 43606 (419) 534-4700 June 2010

3. Date and Place of Manufacture:

Thetford Corporation
7101 Jackson Road
Ann Arbor, MI 48103
Date of manufacture is coded on the container. Code is yymmdd.

4. Contact Information:

Janis Thomson Regulations Chemist (734) 997-6558 jthomson@thetford.com

MATERIAL SAFETY DATA SHEET SPRING FRESH Page: 1 PRODUCT NAME: SPRING FRESH HMIS CODES: H F R P 101C PRODUCT CODE: 40207 ======= SECTION | - MANUFACTURER | IDENTIFICATION =========== MANUFACTURER'S NAME: Camco Manufacturing, Inc. ADDRESS: 121 Landmark Drive Greensboro, NC 27409 **EMERGENCY PHONE:** 336-668-7661 **DATE PRINTED: 02/23/98** INFORMATION PHONE: 336-668-7661 NAME OF PREPARER: CAMCO MANUFACTURING, INC. 121 LANDMARK DR. **GREENSBORO, NC 27409** 1-800-334-2004 === SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ===== VAPOR PRESSURE WEIGHT REPORTABLE COMPONENTS CAS NUMBER mm Hg @ TEMP PERCENT N-Alkvi-N-benzylammonium chloride 68424-85-1 <2% ====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ======

BOILING RANGE: 100C - 105 C SPECIFIC GRAVITY (H2O=1): 0.98

VAPOR DENSITY: NOT DETERMINED EVAPORATION RATE: NOT DETERMINED SOLUBILITY IN WATER: Completely Soluble

APPEARANCE AND ODOR: CLEAR BLUE LIQUID, LEMON SCENT

======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA =========

FLASH POINT: Non Combustable METHOD USED: n/a
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a

EXTINGUISHING MEDIA: dry chemical, carbon dioxide, water spray or regular foam.

MATERIAL SAFETY DATA SHEET
SPRING FRESH
P

Page: 2

SPECIAL FIREFIGHTING PROCEDURES:

Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids and strong bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide, Carbon Dioxide and Nitrogen compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

======== SECTION VI - HEALTH HAZARD DATA ===========

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INHALATION: Vapors may cause irritation of the respiratory tract.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN CONTACT: Slight irritant.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN ABSORPTION: No evidence of harmful effects from available information.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

SPRING FRESH

Page: 3

HEALTH HAZARDS (ACUTE AND CHRONIC): None known.

CARCINOGENICITY: No. NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

EYE CONTACT: Flush with large quantities of water for 15 minutes.

SKIN CONTACT: Wash with soap and water immediately.

INGESTION: Dilute by drinking water. Contact physician or poison control.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb liquid with inert solids and shovel into containers suitable for transport and disposal. Rinse area with fresh water.

WASTE DISPOSAL METHOD:

Dispose in accordance with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from heat or open flame. Do not swallow. Avoid contact with eyes. Use with adequate ventilation. Wash throughly after handling.

OTHER PRECAUTIONS:

Store in closed containers in a cool, dry, well ventilated area. Keep away from sparks and open flame.

MATERIAL SAFETY DATA SHEET SPRING FRESH Page: 4

RESPIRATORY PROTECTION:

Use of approved organic vapor-type respirator is recommended.

VENTILATION:

General ventilation is sufficient.

PROTECTIVE GLOVES:

Wear appropriate impermeable gloves.

EYE PROTECTION:

Use chemical safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Long sleeves and apron is recommended.

WORK/HYGIENIC PRACTICES:

Eye washes and safety showers in the workplace are recommended.

Avoid prolonged or repeated skin contact. Use only with adequate ventilation.

Wash thoroughly after handling.

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use handling and disposal of this product.

ction Product Information/Preparation	nformation			
ruentity: Black Streak & Bug Remover	Product Use: RV	Maintenance		
Manufacturer's Name Thetford Corporation	Emergency Telephone N (734) 769-6000	C-24 hrs)		
Address	Telephone Number for In			
7101 Jackson Road	(734) 769-6000)		•
_	Date Prepared		Prepared By	
Ann Arbor, Michigan 48103	17-Aug-01		Janis M. Th	omson
Section II - Hazardous Ingredients/Identity In	formation :			
				Other
Hazardous Components	CAS#	OSHA PEL	ACGIH	Limits
Alkyl Polyglycoside Surfactant	NA - Mixture		None Establishe	ed
	The second section of the second section assessed		88.0824 m. N. 1000 (N. 1007) (N. 1007) (N. 1007)	
Section III - Hazards identification and Toxo	<u> </u>			
	mergency Overvie			
	uct presents no ha	zards		
Route(s) of Entry:				
Inhalation: Not an inhalation hazard.				
Skin Contact: Not a skin hazard.				<u> </u>
Eye contact: Not an eye irritant.				<u> </u>
Ingestion: Non toxic if ingested. Chronic effects:				
None known.				
Carcinogenicity: Not carcinogenic	 -			<u> </u>
Teratogenicity: Not teratogenic.	-			<u> </u>
Mutagenicity: Not mutagenic.			·	<u>-</u>
Sensitization to Material:		-		<u> </u>
None known.				
Synergistic materials: None known.				
Surfactant LD _{so} : >2 g/kg (dermal, rab	bit)	LD _{so} : > 5 g/	kg oral, rat)	<u> </u>
	·	<u> </u>		<u> </u>
			<u> </u>	
Section IV: First Aid Procedures:		14 (21/2)		
Inhalation: Not applicable.				
Ingestion: Do not induce vomiting. Drink	2 glasses of water.	Contact a phy	sician.	,
Skin: Flush contacted area with large amou	ints of water. Was	h with soap an	d water.	
Eyes: Flush contacted area with large amo				ninutes.
Get medical attention immediately:				
Section V - Fire and Explosion Hazard Data		7. 7. 11 1 0 1 10 1		
Flash Point (Method used)	Flammable Limits by Vo	lume	LEL	UEL
> 200°F (>93°C) (RTCC).		N/A	N/A	N/A
Extinguishing Media		Hazardous Combu	stion Products	-
Water, dry chemical, carbon dioxide or foan	n			oxide and nitrogen
	· -	Auto-ignition Temp		Sensitivity to Static Discharge
Special Fire fighting Procedures		Not availa		Not available
Cool fire-exposed containers with water.			· -	140f available
nusual Fire and Explosion Hazards		Conditions of Flam	•	t. 1 -
None		 	Not flamma	DIE
Explosion Data		Sensitivity to Mach	· ·	da
None		l	Not availab	ile

ection VI Rersonal Protective Equipmen	nt control of the con		
Respiratory Protection:			
Not required.	 		<u> </u>
Engineering Controls:		•	
Maintain adequate ventilation.			
Protective Gloves:	Eye Protection:	_	<u> </u>
Rubber or neoprene gloves.	Face shield with safety glasses or s	afety go	ggles.
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact.	Eyewash station and safety shower.		
Work/Hygienic Practices		-	
Avoid unnecessary contact. Wash thorou	ghly after handling especially before eating,	drinking	or smoking
Section VII - Accidental Release Measures	/Preventative Measures		il deiximi EGITANI
Stops to be Taken in Case Material is Released or Spilled:			
Eliminate sources of ignition. : Clean up sn	nall spills with water. Soak up larger spills w	ith abso	rbent material
Place used absorbent in closed containers	for disposal. Mop area with plenty of clean	, cold w	ater.
Waste Disposal Method		ļ	
Incineration or biological treatment in Fed	eral/State approved treatment facility.		
Precautions to be Taken in Handling and Storing	1 fee and		
Do not store above 100° F (38°C) Do not	treeze.		
Other Preceutions	mak Bandal farancara ara abda - 1862-b 162 1		
Section VIII. Physical/Chemical Character	get liquid in eyes or on skin. Wash thorough	ly after	handling.
Soiling Point		*********	The county of the county of the county
	Specific Gravity (H20 = 1)	Phy	sical State
210° F (99°C)	1.028		Liquid
Vapor Pressure (mm Hg)	Melting Point	Ode	or Threshold
Not determined	Not applicable		Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Fre	ezing Point
Not determined	Similar to water >1		32°F (0°C)
Solubility in Water	Н	Coc	eff. Water/Oil Dist.
Complete	12 - 13		Not available
Appearance and Odor			
Clear, colorless liquid with a mild deterger	nt odor		
Section IX - Reactivity Hazards			
Stability	Hazardous Polymerization	_	;
X Stable	May Occur		\
Unstable	X Will Not Occur		
Incompatibility (Materials to Avoid)			
Strong acids, bases and oxidizing agents			
Hazardous Decomposition or Byproducts			
	oon monoxide, carbon dioxide and nitrogen	 !	
Conditions to Avoid		, [
Elevated temperatures	24660125622422220222704	Section at 140	Avanta i familia de parazzona de comocio
Section XI = Shipping Information		34. 3.44	
Shipping Instructions for Consumer Commodities:	ı		:
US transportation questions can be answe	red by Thetford Corporation's Traffic Depar	tment.	
Consult TDG Regulations for Canadian sh	ipping information.		
· · · · · · · · · · · · · · · · · · ·	····		

ction il Product Information/Preparation	Information' 🦊 👯			
Lentity: Black Streak & Bug Remover	Product Use: RV	Maintenance		
Manufacturer's Name Thetford Corporation	Emergency Telephone N (734) 769-600		300 (CHEMTRE	C-24 hrs)
Address 7101 Jackson Road	Telephone Number for to (734) 769-600			
	Date Prepared	-	Prepared, By	
Ann Arbor, Michigan 48103	17-Aug-01		Janis M. Th	nomson
Section II Hazardous Ingredients/Identity	nformation			
			<u> </u>	Other
Hazardous Components	CAS#	OSHA PEL	ACGIH	Limits
Alkyl Polyglycoside Surfactant	NA - Mixture		None Establishe	
		4		
Section III Hazards Identification and Toxo	ological Informatio	on a street in the		
	mergency Overvie			
γ Prod	uct presents no h	azards		
Route(s) of Entry:				1
Inhalation: Not an inhalation hazard.				
Skin Contact: Not a skin hazard.				
Eye contact: Not an eye irritant.				
Ingestion: Non toxic if ingested.				
Chronic effects:			•	
None known.			<u>. </u>	
Carcinogenicity: Not carcinogenic				
Teratogenicity: Not teratogenic.		<u></u> .		
Mutagenicity: Not mutagenic.				
Sensitization to Material:			•	
None known.				<u> </u>
Synergistic materials: None known.				<u> </u>
Surfactant LD ₅₀ : >2 g/kg (dermal, rai	bbit)	$LD_{60} > 5 g/$	kg oral, rat)	
				<u> </u>
	·-			
Section IV - First Aid Procedures:				
Inhalation: Not applicable.				
Ingestion: Do not induce vorniting. Drink		\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		ļ
Skin: Flush contacted area with large amo				
Eyes: Flush contacted area with large amo	ounts of water. Imig	ate eyes for a r	minimum of 15 i	ninutes.
Get medical attention immediately.				
Section V - Fire and Explosion Hazard Data				
Flash Point (Method used)	Flammable Limits by V		LEL	UEL
> 200°F (>93°C) (RTCC)		N/A	Ņ/A	N/A
Extinguishing Media		Hazardous Combu	stion Products	
Water, dry chemical, carbon dioxide or foa	m	Carbon mon	oxide, carbon d	ioxide and nitrogen
Special Fire fighting Procedures		Auto-ignition Temp	erature -	Sensitivity to Static Discharge
Cool fire-exposed containers with water.		Not availa	ble	Not available
nusual Fire and Explosion Hazards		Conditions of Flam	•	
None		Containous; or main	Not flamma	hhle
Explosion Data		Sénsitivity to Mach	-	
None		1	Not availat	ole
1,10110		<u> </u>		<u>-</u>

section:VI=Personal Protective Equipment		Marian (Santa)	
Respiratory Protection:			
Not required.			
Engineering Controls:			
Maintain adequate ventilation.			
Protective Gloves:	Eye Protection:		
Rubber or neoprene gloves.	Face shield with safety glasses or sa	ggles.	
Other Protective Clothing or Equipment:			
Protective clothing to avoid skin contact. Eyev	vash station and safety shower.		
Work/Hygienic Practices		_	
Avoid unnecessary contact. Wash thoroughly	after handling especially before eating, of	irinking	or smokina.
Section VII - Accidental Release Measures/Pre-	ventative Measures		
Steps to be Taken in Case Material is Released or Spilled:		Car III (455)	A CONTRACTOR OF THE PARTY OF TH
Eliminate sources of ignition. Clean up small s	spills with water. Soak up larger spills wi	th abso	rbent material
Place used absorbent in closed containers for	disposal. Mop area with plenty of clean.	cold w	ater.
		_	
Waste Disposal Method	-	_	-
Incineration or biological treatment in Federal/s	State approved treatment facility.		
Precautions to be Taken in Handling and Storing			
Do not store above 100° F (38°C). Do not free	eze.		
Other Precautions			-
Spilled material may be slippery. Do not get lie	quid in eyes or on skin. Wash thoroughly	v after	handling.
Section VIII Physical/Chemical Characteristic	5	\$04, 18 (C)	
loiling Point	Specific Gravity (H20 = 1)	Ph	rsical State
, 210° F (99°C)	1.028		Liquid
Vapor Pressure (mm Hg)	Melting Point		or Threshold
Not determined			-
Vapor Density (AIR = 1)	Not applicable		Not determined
	Evaporation Rate (Butyl Acetate = 1)	 Fie	ezing Point
Not determined	Similar to water >1		32°F (0°C)
Solubility in Water	PΗ	Co	eff, Water/Oil Dist,
Complete	12 - 13		Not available
Appearance and Odor			
Clear, colorless liquid with a mild detergent od	or	3253 1 10 5	
Section IX = Reactivity Hazards			
Stabdity	Hazardous Polymerization	ļ	
X Stable	May Occur		•
Unstable	X Will Not Occur	<u> </u>	
Incompatibility (Materials to Avoid)			
Strong acids, bases and oxidizing agents			_
Hazardous Decomposition or Syproducts		Ţ	
Thermal decomposition may produce carbon n	nonoxide, carbon dioxide and nitrogen		
Conditions to Avoid		Ï	-
Elevated temperatures		- 1	
Section XI - Shipping Information		G/E.E.	Patt has a ridge of New York
Shipping Instructions for Consumer Commodities:			
US transportation questions can be answered t	by Thetford Comoration's Traffic Depart	ment	
namelarminal dependents add no difaileter r	oy invovia ovipolationa. Hallib BCDd[[11151II.	
Consult TDG Regulations for Canadian shipping			

ection I Product Information/Preparation	Information			
Identity: Rubber Roof Cleaner	Product Use: RV			
Manufacturer's Name Thetford Corporation	Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMTREC-24 hrs)			
Address	Telephone Number for Ir	dermation	····	
7101 Jackson Road	(734) 769-600	0		
Ann Arbor, Michigan 48103	Date Prepared 17-Aug-01		Prepared By Janis M. Th	nomeon
Section II Hazardous Ingredients/Identity			oanio IVI. II	A CO. AND SOLVENS ASSESSMENT OF THE PROPERTY O
oconote is an expension of the mande surface of the	momanon***	s a comparable fill of the	<u> </u>	Other
Hazardous Components	CAS#	OSHA PEL	ACGIH	Other Limits
Alkyl Polyglycoside Surfactant	NA - Mixture	OOHA FEL	None Establishe	Limits
Ainyi Fulygiyooside Sulfacialit	NV - MINING	·	TAOTIA ESTADIISTI	<u>= </u>
			Sin Harrina	
Section III. Hazards Identification and Tox				The second of the second second
	mergency Overvie			
	ning! Causes eye	irritation.		
Route(s) of Entry: Inhalation: Not an inhalation hazard.				
Skin Contact: Not a skin irritant.				
Eye contact: Causes initation.			· .	
Ingestion: Non toxic if ingested.	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
Chronic effects:				
None known.				
Carcinogenicity: Not carcinogenic				
Teratogenicity: Not teratogenic.				
Mutagenicity: Not mutagenic.				
Sensitization to Material:				
None known.				<u> </u>
Synergistic materials: None Known.				
Surfactant LD ₅₀ : >2 g/kg	(dermal, rabbit)		LD ₅₀ : > 5 g/l	kg (oral, rat)
	34 S. W. S. S. S. S. S. S. S. S. S. S. S. S. S.			
Section IV First Aid Procedures:				San Barbaran Caralla C
Inhalation: Not applicable. Ingestion: Do not induce vomiting. Drink	2 alacese of water	Contact ainhi	reician	
				<u> </u>
Skin: Flush contacted area with large amo				ninutes
Get medical attention immediately.	Julia of Mater. IIII	iale eyes ini a	TOTAL TO HOUSE CONTRACTOR	minutes.
Section V. Fire and Explosion Hazard Data				
Flash Point (Method used)	Flammable Limits by V	olume	LEL	UEL
> 200°F (>93°C) (RTCC)	a secondary attendary vi	N/A	N/A	N/A
Extinguishing Media		Hazardous Combo		
Water, dry chemical, carbon dioxide or foa	m	Oxides of ca	arbon, oxides of	sulfur and nitrogen
Special Fire fighting Procedures		Auto-Ignition Tem	peraturo	Sensitivity to Static Discharge
Cool fire-exposed containers with water.		Not availa	able	Not available
nusual Fire and Explosion Hazards	-	Conditions of Flan	nmability	
None _			Not flamma	ble
Explosion Data		Sensitivity to Med	1	
None			Not availal	ble

Section:VI=Personal Protective Equi	pment	
Respiratory Protection;		, and the second
Not required.		
Engineering Controls: Maintain adequate ventilation.		
Protective Gloves:	le les d	
Rubber or neoprene gloves.	Eye Protection:	
Other Protective Clothing or Equipment:	Safety glasses or safety goggles.	<u>·</u>
	act. Eyewash station and safety shower.	
Work/Hygienic Practices	asi. Lyonash station and safety shower.	
	oroughly after handling especially before eating	و و من من مناه
Section VII = Accidental Release Meas	ures/Preventative Measures	, utiliking of smoking.
Steps to be Taken in Case Material is Released or Spille	ad:	
Eliminate sources of ignition. Clean	up small spills with water. Soak up larger spills v	with absorbant motogat
Place used absorbent in closed conta	iners for disposal. Mop area with plenty of clear	cold water
		Toola trator.
Waste Disposal Method		
Incineration or biological treatment in	Federal/State approved treatment facility.	
Precautions to be Teken in Handling and Storing	a not form.	
Do not store above 100° F (38°C). D	o not freeze.	
· · · · · · · · · · · · · · · · · · ·	not get liquid in eyes or on skin. Wash thorough	the best of the second
Section VIII - Physical/Chemical Char	acteristics	ily after handling.
Boiling Point	Specific Gravity (H20 = 1)	la
210° F (99°C)	1.014	Physical State
Vapor Pressure (mm Hg)	Melting Point	Liquid
Not determined		Odor Threshold
Vapor Density (AIR = 1)	Not applicable	Not determined
• •	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Similar to water >1	32°F (0°C)
Sclubility in Water Complete	bH 0.5	Coeff, Water/Oil Dist.
Appearance and Oder	8:5 - 9,5	Not available
Clear, colorless liquid with a strong de	etement odor	
Section IX - Reactivity Hazards		
Stability	Hazardous Polymerization	
X Stable	May Occur	ł
Unstable	X. Will Not Occur	
Incompatibility (Materials to Avoid)	74. Van Not Good	
Strong acids, bases and oxidizing age	ents	
Hazardous Decomposition or Byproducts		
Thermal decomposition may produce	carbon monoxide, carbon dioxide and nitrogen	
Conditions to Avoid		
Elevated temperatures		1
Section XI Shipping Information		
Shipping Instructions for Consumer Commodities:		
US transportation questions can be ar	nswered by Thetford Corporation's Traffic Depart	rtment
Consult TDG Regulations for Canadia		
		

ection I Product Information/Preparation Is	nformation 🐘 🛴			January and the state of the st
Identity: Rubber Roof Cleaner	Product Use: RV	Maintenance		
Manufacturer's Name	Emergency Telephone Number			
Thetford Corporation	(734) 769-6000); <mark>(800) 424-</mark> 93	300 (CHEMTRE	C-24 hrs)
Address	Telephone Number for In		·	· · · · · · · · · · · ·
7101 Jackson Road	(734) 769-6000	<u> </u>		
	Date Prepared		Prepared By	
Ann Arbor, Michigan 48103	17-Aug-01		Janis M. Th	iomson
Section II - Hazardous Ingredients/Identity In	formation			
·				Other
Hazardous Components	CAS#	OSHA PEL	ACGIH	Limits
Alkyl Polyglycoside Surfactant	NA - Mixture	<u> </u>	None Establishe	ed
Section III - Hazards Identification and Toxo	ogical informatio	n 🐃 🔆 👑		
,. Er	nergency Overvio	:w:		
Wami	ing! Causes eye	irritation.		
Route(s) of Entry:				
Inhalation: Not an inhalation hazard.				
Skin Contact: Not a skin irritant.				
Eye contact: Causes irritation.				
Ingestion: Non toxic if ingested.				
Chronic effects:				
None known.				
Carcinogenicity: Not carcinogenic				
Teratogenicity: Not teratogenic.				
Mutagenicity: Not mutagenic.		-		
Sensitization to Material:				
None known.				
Synergistic materials: None known.				
Surfactant LD ₅₀ : >2 g/kg (dermal, rabbit)		LD_{50} : > 5 g/k	g (oral, rat)
	-			
Section IV - First Aid Procedures:				
Inhalation: Not applicable.				
Ingestion: Do not induce vomiting. Drink 2	glasses of water.	Contact a phys	sician.	•
Skin: Flush contacted area with large amou	nts of water. Was	h with soap and	d water.	
Eyes: Flush contacted area with large amou	ınts of water. İrrig	ate eyes for a r	ninimum of 15 r	πinutes.
Get medical attention immediately.				
Section VFire and Explosion Hazard Data				
Flash Point (Method used)	Flammable Limits by Vo		LEL	UEL
> 200°F (>93°C) (RTCC)		N/A	N/A	N/A
Extinguishing Media		Hazardous Combus	stion Products	
Water, dry chemical, carbon dioxide or foam	<u> </u>	Oxides of ca	rbon, oxides of	sulfur and nitrogen
Special Fire fighting Procedures		Auto-Ignition Temp	oraturo	Sensitivity to Static Discharge
Cool fire-exposed containers with water.		Not availal	ole	Not available
nusual Fite and Explosion Hazards		Conditions of Flam	mability	
None		<u> </u>	Not flamma	ble
Explosion Data		Sensitivity to Mech	anical impact	
None			Not availab	ole

Connection of the second section of the second seco	lents.	and the second s
Respiratory Protection:		
Not required.		
Engineering Controls:		
Maintain adequate ventilation.		1
Protective Gloves;	Eyo Protection:	
Rubber or neoprene gloves.	Safety glasses or safety goggles.	•
Other Protective Clothing or Equipment:		
Protective clothing to avoid skin contact	. Eyewash station and safety shower.	
Work/Hygienic Practices	, "	
Avoid unnecessary contact. Wash thoro	oughly after handling especially before eating,	drinking or smoking
Section VII - Accidental Release Weasur	es/Preventative Measures	g of Smoking.
Stops to be Taken in Case Material is Roleased or Spilled:	***************************************	
Eliminate sources of ignition. Clean up	small spills with water. Soak up larger spills v	vith absorbent material
Place used absorbent in closed contained	ers for disposal. Mop area with plenty of clean	. cold water
		, sold trator.
Waste Disposal Method		
Incineration or biological treatment in Fe	ederal/State approved treatment facility.	
Precautions to be Taken in Handling and Storing		
Do not store above 100° F (38°C). Do n	ot freeze.	
Other Precautions		
Spilled material may be slippery. Do no	t get liquid in eyes or on skin. Wash thorough	ilv after handling
Section VIII Physical/Chemical Charact	eristics	ate nanding.
Boiling Point	Specific Gravity (H20 = 1)	Physical Ct.
210° F (99°C)	1.014	Physical State
Vapor Pressure (mm Hg)	Melting Point	Liquid
Not determined) ···	Odor Threshold
Vapor Density (AIR = 1)	Not applicable	Not determined
' ' '	Evaporation Rato (Butyl Acetate = 1)	Freezing Point
Not determined Solubility in Water	Similar to water >1	32°F (0°C)
l ·	pH	Coeff, Water/Oil Dist.
Complete Appearance and Oder	8.5 - 9.5	Not available
Clear, colorless liquid with a strong deter	gent odor	
Section IX - Reactivity Hazards		
Stability	Hazardous Polymerization	
X Stable	May Occur	,
Unstable	X. Will Not Occur	
Incompatibility (Materials to Avoid)		
Strong acids, bases and oxidizing agents		
Hazardous Decomposition or Byproducts		
i nermal decomposition may produce ca	rbon monoxide, carbon dioxide and nitrogen	
Conditions to Avoid		
Elevated temperatures		. 1
Section XI - Shipping Information		
Shipping Instructions for Consumer Commodities:	,	11,27641
US transportation questions can be answ	ered by Thetford Corporation's Traffic Depart	ment
Consult TDG Regulations for Canadian s	hinning information	DI TOTAL
	instant internation.	
		1

Material Safety Data Sheet

FORM NUMBER: 6700

Section I. Product information/Prepa	ration Information						
Identity: RV Wash & Wax	Product Use: RV I						
Manufacturer's Name Thetford Corporation	Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMTREC-24 hrs)						
Address	Telephone Number for In:		_				
7101 Jackson Road	(734) 769-6000						
	Date Prepared		Prepared By				
Ann Arbor, Michigan 48103	17-Aug-01		Janis M. Thon	nson			
Section: II. Hazardous Ingredients/Id	entity Information						
				Other			
Hazardous Components	CAS#	OSHA PEL	ACGIH	Limits			
Alkyl Polyglycoside Surfactant	NA - Mixture		None Established				
Dicoco dimethyl ammonium chloride	61789-77-3		None Established				
				<u> </u>			
Section III - Hazards Identification ar	id Toxological Info	ormation					
	mergency Overvie						
Warningl	Causes eye and s	kin irritation.					
Route(s) of Entry:							
Inhalation: Not an inhalation hazar	d						
Skin Contact: May cause irritation.	·						
Eye contact: Causes imitation.							
Ingestion: Non toxic if ingested.	<u>.</u>						
Chronic offects:							
None known.							
Carcinogenicity: Not carcinogenic							
Teratogenicity: Not teratogenic.							
Mutagenicity: Not mutagenic.			<u>-</u>				
Sensitization to Material:		•					
None known.		 _					
Synergistic materials: None known.							
Surfactant LD ₅₀ : >2 g/kg (LD_{50} : > 5 g/kg	·····			
Dicoco dimethyl ammonium chloride LD ₆₀ : 960 mg/kg (oral, rat)							
Section IV - First Aid Procedures:							
Inhalation: Not applicable.		······································					
Ingestion: Do not induce vomiting							
Skin: Flush contacted area with lar							
Eyes: Flush contacted area with la	rge amounts of wate	er. Imigate eye	s for a minimum c	of 15 minutes.			
Get medical attention immediately.							
Section V - Fire and Explosion Haza							
Flash Point (Method used)	Flammable Limits by Vo		LEL	UEL'			
> 200°F (>93°C) (RTCC)		N/A	N/A	N/A			
		,- 					
Extinguishing Media	_	Hazardous Combus					
Water, dry chemical, carbon dioxid	e or foam	Carbon mon	oxide and carbon	dioxide			
Special Fire fighting Procedures		Auto-Ignition Temp	erature	Sensitivity to Static Discharge			
None		Not availat	ole	Not available			
Unusual Fire and Explosion Hazards	Conditions of Flammability						
None	Not flammable						
	Sonsitivity to Mechanical Impact						
Explosion Data None			Not available				
		<u> </u>		14016 1401 1401 SAGUADIO			

Section VI@Personal Protective E	quipment	
Respiratory Protection:		100 mm
Not required.		<u>'</u>
Engineering Centrols:		
Maintain adequate ventilation.	· · · · · · · · · · · · · · · · · · ·	
Protective Gloves:	Eye Protection:	
Rubber or neoprene gloves.	Safety glasses or safety gogg	gles
Other Protective Clothing or Equipment:	• • -	
Protective clothing to avoid skin of	ontact. Eyewash station and safety shower.	
Work/Hygienie Practices		
Avoid unnecessary contact. Was	h thoroughly after handling especially before e	eating, drinking or smoking.
Section VIII - Accidental Release M	easures/Preventative Measures	
Steps to be Taken in Case Material is Released or		A STATE OF THE STA
Eliminate sources of ignition. Cle	an up small spills with water. Soak up larger s	spills with absorbent material
Place used absorbent in closed of	ontainers for disposal. Mop area with plenty of	f clean, cold water.
Waste Disposal Method	and the company of th	· ·
incineration or biological treatmen	t in Federal/State approved treatment facility.	
Precautions to be Taken in Handling and Storing	Bran March	
Do not store above 100° F (38°C) Other Precautions	Do not leeze.	
	Datt Pr. 111	
Cost on VIII. Ob a support of	Do not get liquid in eyes or on skin. Wash the	proughly after handling.
Section VIII - Physical/Chemical C		
il =	Specific Gravity (H20 = 1)	Physical State
210° F (99°C)	1.019	Liquid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
Not determined	Not applicable	Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acctate = 1)	Freezing Point
Not determined	Similar to water >	1 32°F (0°C)
Solubility in Water	рН	Coeff. Water/Oil Dist,
Complete	7.5 - 8.5	Not available
Appearance and Odor	*	-
Green liquid with a lemon so		
Section IX - Reactivity Hazards		22° (2.40
Stability	Hazardous Polymorization	,
X Stable	May Occur	
Unstable	X Will Not Occur	
Incompatibility (Materials to Avoid)	,	
Strong acids, bases and oxidizing	agents	
Hazardous Decomposition or Byproducts	All and the second of the seco	
Conditions to Avoid	uce carbon monoxide and carbon dioxide	
Elevated temperatures		
Section XI - Shipping Information		YYYY Mensy and proposed the account
Shipping Instructions for Consumer Commodities:		
	e answered by Thetford Corporation's Traffic	Department.
Consult TDG Regulations for Can	adian shipping information.	_
		

Material Safety Data Sheet

FORM NUMBER: 6800

ection I Product Information/Preparation	Information					
identity: Premium RV Awning Cleaner	Product Use: RV	Maintenance				
Manufacturer's Name	Emergency Telephone Number					
Thetford Corporation		(734) 769-6000; (800) 424-9300 (CHEMTREC-24 hrs)				
Address	Telephone Number for Ir			,		
7101 Jackson Road	(734) 769-600	0	<u> </u>			
A A I A M	Date Prepared		Prepared By			
Ann Arbor, Michigan 48103	17-Aug-01		Janis M, Tr	nomson		
Section II: Hazardous Ingredients/Identity	intormation					
•	_ /			Other		
Hazardous Components	CAS#	OSHA PEL	ACGIH	Limits		
Alkyl Polyglycoside Surfactant	NA - Mixture	-	None Establish	9d		
				<u> </u>		
	77770	oromatic toric				
Section (III = Hazards; Identification; and Tox	ological intornation					
	ming! Causes eye					
Route(s) of Entry:	ining: Causes eye	ninanon.				
Inhalation: Not an inhalation hazard.						
Skin Contact: Not a skin imtant.	<u> </u>		<u> </u>			
Eye contact: Causes irritation.				<u> </u>		
Ingestion: Non toxic if ingested.						
Chronic effects:	<u> </u>		-	-		
None known.				ļ.		
Carcinogenicity: Not carcinogenic						
Teratogenicity: Not teratogenic.						
Mutagenicity: Not mutagenic.	<u> </u>					
Sensitization to Material:		_				
None known.						
Synergistic materials: None known.						
Surfactant LD ₅₀ : >2 g/kg	ı (dermai, rabbit)		LD ₆₀ : > 5 g/	kg (oral, rat)		
		-		<u></u>		
Section IV First Aid Procedures:		t in the state of	in hand misserable			
Inhalation: Not applicable.						
Ingestion: Do not induce vomiting. Drink						
Skin: Flush contacted area with large am						
Eyes: Flush contacted area with large am	ounts of water. Img	jate eyes for a	minimum of 15	minutes.		
Get medical attention immediately.	no estado en accidado a la calenda de la composição estada en como de la composição de la c		ا درون ده ده ده ده ده ده ده ده ده ده ده ده ده			
Section V Fire and Explosion Hazard Dat		aluma	lei l	UEL		
Flash Point (Method used)	Flammable Limits by V	olume N/A	LEL N/A	N/A		
> 200°F (>93°C) (RTCC)		INA	IN/A	1117		
Extinguishing Media		Hazardous Combi	ustion Products			
Water, dry chemical, carbon dioxide or for	am		1	sulfur and nitrogen		
Special Fire fighting Procedures	-	Auto-Ignition Tem	i	Sensitivity to Static Discharge		
Cool fire-exposed containers with water.		Not availa	1	Not available		
Unusual Fire and Explosion Hazards		Conditions of Flan	-	<u> </u>		
None		3	Not flamma	able		
Explosion Data		Sensitivity to Moo				
None			Not availa	ble		
						

Section VII-Personal Protective Equipment		
Respiratory Protection:		
Not required.		
Engineering Controls:		
Maintain adequate ventilation.		
	Eye Protection:	
Rubber or neoprene gloves.	Safety glasses or safety goggles.	•
Other Protective Clothing or Equipment:		
Protective clothing to avoid skin contact. Eyew	ash station and safety shower.	
World Hygienic Practices		
Avoid unnecessary contact. Wash thoroughly	after handling especially before eating	drinking or smoking
Section VII - Accidental Release Measures/Prev	entative Measures	arrinarig or arrowing.
Steps to be Taken in Case Material is Released or Spilled:		
Eliminate sources of ignition: Clean up small s	oills with water. Soak up larger spills wi	ith absorbant material
Place used absorbent in closed containers for c	lisposal. Mon area with plenty of clean	cold water
	the profit of Goding	Cold Water.
Waste Disposal Method		
Incineration or biological treatment in Federal/S	State approved treatment facility	
Precautions to be Taken in Handling and Storing	toto approved additional facility.	
Do not store above 100° F (38°C). Do not free:	7e	
Other Procautions		
Spilled material may be slippery. Do not get liq	wid in eyes or an skin. Wash thorough	y offer heading
Section VIII - Physical/Chemical Characteristics	and in Cycs of Oil Skill, Wash (Hollough)	y aiter nanding.
	Specific Gravity (H20 = 1)	
210° F (99°C)		Physical State
· _ · · · · · · · · · · · · · · · · · ·	1.016	Liquid
	Melting Point	Odor Threshold
Not determined	Not applicable	Not determined
	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Similar to water >1	32°F (0°C)
Solubility in Water	pH	Coeff, Water/Oil Dist.
Complete	8.5 - 9.5	Not available
Appearance and Oder		
Clear, colorless liquid with a vinyl scent		
Section IX Reactivity Hazards		
Stability	Hazardous Polymerization	
X Stable	May Occur	\ \
Unstable	X Will Not Occur	
Incompatibility (Materials to Avoid)		
Strong acids, bases and exidizing agents		
Hazardous Decomposition or Byproducts		
Thermal decomposition may produce carbon m		oxides of sulfur
Conditions to Avoid		January Control of Con
Elevated temperatures		
Section XI - Shipping Information		
Shipping Instructions for Consumer Commodities:	and the second s	
	Thelford Comments - 1- Trick -	
US transportation questions can be answered by		mentl
Consult TDG Regulations for Canadian shipping	information.	

Material Safety Data Sheet

FORM NUMBER: 50006

	V		<u> </u>	
Section I Product Information/Preparati	on Information	<u> </u>		
Identity: Awning Cleaner - Foaming and Regular	Product Use: RV Mainten	ance		
Manufacturer's Name Thetford Corporation	Emergency Telephone Numbe (734) 769-6	CHEMTREC	-24 hrs)	
Address 7101 Jackson Road	Telephone Number for Informa	tion (734) 769-6000		
Ann Arbor, Michigan 48103	Date Prepared 8-Nov-06	Prepared By	Janis M. Thr	omson
Section II - Hazardous Ingredients/Identi	ty Information			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Hazardous Components Alkyl Polyglycoside Surfactant	CAS # OSHA NA - Mixture	PEL ACGIH	. 1	er Limits established
Section III - Hazards Identification and T	explodical Information			
	ergency Overview:	·		
	arning! Causes eye irritation.			
Route(s) of Entry: Inhalation: Not an inhalation hazard.	,			
Skin Contact: Not a skin irritant.	<u> </u>			<u> </u>
Eye contact: Causes irritation.		_	_	
Ingestion: Non toxic if ingested.		<u> </u>		
Chronic effects: Carcinogenicity: Not carcinogenic.				
Teratogenicity: Not teratogenic.				
Mutagenicity: Not mutagenic.				
Sensitization to Material: None known,				
Synergistic materials. None known.				
Toxological Information: Surfactant	LD ₅₀ :>5 g/kg (oral, rat)	LC ₅₀ :		
Continuity First At Dr. 1	LD ₅₀ :>2 g/kg (dermal, rabbit) LC ₅₀		
Section IV - First Aid Procedures:				<u> </u>
Inhalation: Not applicable.				
Ingestion: Do not induce vomiting. Drink 2 gla	sses of water. Contact a physi	clan.		
Skin: Flush contacted area with large amounts	of water. Wash with soap and	water.	<u> </u>	
Eyes: Flush contacted area with large amounts immediately.		nimum of 15 minutes.	Get medical a	attention
Section V - Fire and Explosion Hazard Da	ıta			
Flash Point (Method used) > 200°F (>93°C) (RTCC)	Flammable Limits by Volume N/A	LEL N/A		VEL N/A
Extinguishing Media Water, dry chemical, carbon dioxide or foam		Combustion Products of carbon, oxides of s	ulfur and nitre	ogen
Special Fire fighting Procedures	Auto-Ignitio	n Temperature	Sensitivity to S	Static Discharge
Cool fire-exposed containers with water.		ailable	Not availa	_
Jnusual Fire and Explosion Hazards None		of Flammability mmable		
Explosion Data None	Sensitivity to	o Mechanical Impact.		

Section VI - Personal Protective Equipment		
Respiratory Protection: Not required.		-
Engineering Controls: Maintain adequate ventilation.		
Protective Gloves:	Eye Protection:	
Rubber or neoprene gloves.	Safety glasses or safety goggles.	
Other Protective Clothing or Equipment: Protective clothing to avoid skin contact. Eyewash station a	nd safety shower.	
Work/Hygienic Practices		-
Avoid unnecessary contact. Wash thoroughly after handling	especially before eating, drinking or smoking	
Section VII - Accidental Release Measures/Pre-		
Steps to be Taken in Case Material is Released or Spilled:		<u> </u>
Eliminate sources of ignition. Clean up small spills with wate containers for disposal. Mop area with plenty of clean, cold	er. Soak up larger spills with absorbent material. Plac water.	e used absorbent in closed
	·	
Waste Disposal Method Dispose of in accordance with federal, state and local regula	tions.	
Precautions to be Taken in Handling and Storing Do not store above 100° F (38°C). Do not freeze.		
Other Precautions		
Spilled material may be slippery. Do not get liquid in eyes or	on skin. Wash thoroughly after handling.	
Section VIII - Physical/Chemical Characteristics	S	
Boiling Point	Specific Gravity (H20 = 1)	Physical State
210° F (99°C)	1.016	Liquid
Vapor Pressure (mm Hg)	Melting Point	Odor Threshold
Not determined	Not applicable	Not determined
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Freezing Point
Not determined	Not available	32 °F (0°C)
Solubility in Water	рН	Coeff. Water/Oil Dist.
Complete	8.5 - 9.5	Not determined
Appearance and Odor Clear, colorless liquid with a vinyl scent		The determined
Section IX - Reactivity Hazards	<u> </u>	-
	Lineardous Dalemaniantina	_
X Stable	Hazardous Polymerization May Occur	
Unstable	x Will Not Occur	<u> </u>
Incompatibility (Materials to Avoid)	X WIN NOT OCCU	-
Strong acids, bases and oxidizing agents		
Hazardous Decomposition or Byproducts Thermal decomposition may produce carbon monoxide, carbon	n dinyide nitrogen and gyides of sulfur	
Conditions to Avoid	recionace, madgers, and oxides of surfu	
Elevated temperatures		
Section XI - Shipping Information		
Transportation Status:	Proper Shipping Name: (lass:
US DOT: Not Regulated	NA N	r <mark>A</mark>
Canadian TDG: Not Regulated		
For other modes of transportation, consult the individual regula	tions (IATA, IMDG) for shipping information	
, and the state of	Company monitoring	
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Reliable Spray Cleaner

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

A1002

SECTION 1. PRODUCT IDENTIFICATION

1 TRADE NAME (AS LABELED):

SYNONYMS: CAS#:

1.2 PRODUCT USE:

CHEMICAL SHIPPING NAME/CLASS:

U.N. NUMBER:

1.3 NORTH AMERICA:

MANUFACTURER'S NAME:

ADDRESS:

BUSINESS PHONE:

EMAIL:

WEB SITE INFORMATION:

1.4 EMERGENCY PHONE NUMBERS:

DATE OF CURRENT REVISION: DATE OF LAST REVISION:

Reliable Spray Cleaner

N/A Mixture

Cleaning agent

Corrosive liquids, N.O.S / Class 8 - Corrosive

UN1760

Reliable Products

639 Fitch Street, Oneida, NY 13421

800-932-8742

spraynwipe@aol.com reliableproductsonline.com

1-800-424-9300 (CHEMTREC - 24 Hrs)

July 02, 2014 December 20, 2004

SECTION 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a blue thin liquid with a mild odor.

Health Hazards: Corrosive: May cause serious eye damage. May be harmful if swallowed, inhaled, or in contact with skin.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: Corrosive.

Environmental Hazards: The Environmental effects of this product have not been investigated, however release may

cause adverse environmental effects.

GHS Hazard Symbol(s)



CANADA (WHMIS) SYMBOL(S)



US DOT SYMBOL(S)



Signal Word: Danger!

2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by Health Canada and the OSHA (as described in 29 CFR 1910.1200(d))

Component(s) Contributing to Classification(s)

Ethylene Glycol Butyl Ether

2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

Acute toxicity, Oral Category 4

Acute toxicity, Dermal Category 4

Acute toxicity, Inhalation Category 4

Skin Corrosion/Irritation Category 1B

Serious Eye Damage Category 1

Hazard Statement(s):

H302 Harmful if swallowed

H332 Harmful if inhaled

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

Precautionary Statement(s)

260 Do not breath dusts or mists

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

Reliable Products

Storage Statement(s):

P403+P235 Store in a well-ventilated place. Keep cool

Disposal Statement(s):

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Response Statement(s):

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Page 1 of 6



Reliable Spray Cleaner

Precautionary Statement(s) continued:

P271 Use only outdoors or in a well-ventilated area

P280 Use protective gloves/protective clothing/eye protection/face protection

Response Statement(s) continued:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a Poison Center or doctor if you feel unwell P362+P364 Take off contaminated clothing and wash it before reuse

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Harmful if inhaled. Mist or spray may cause a burning sensation, cough, shortness of breath, or sore throat. May effect behavior, cause headaches or vomiting

CONTACT WITH SKIN: Corrosive material may cause redness, skin burns, or blisters.

EYE CONTACT: Corrosive material may cause irritation with possible burns and tissue damage.

INGESTION: Harmful if swallowed. May cause irritation or pain to the gastrointestinal tract. . May affect

behavior/central nervous system

CHRONIC: Prolonged exposure to the skin may cause irritation, dryness, or cracking. Prolonged or repeated inhalation or ingestion may affect the blood, kidneys, or liver.

TARGET ORGANS:

Acute:

Skin, Eyes, Respiratory System, Central Nervous System

Chronic: Skin, blood, kidneys, liver

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Ethylene Glycol Butyl Ether	5 – 10%	111-76-2	[Xn] Harmful
Balance of other ingredients are non-hazardo respiratory sensitizers).	ous or less than 1% in concentration	ı (< 0.1% for carcino	

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400,1-2010 format.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin problems may be aggravated by prolonged contact.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with possible burns and tissue damage. Prolonged skin exposure may cause mild irritation or dryness. Prolonged or repeated inhalation or ingestion may cause hematuria (blood in the urine)

3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.



Reliable Spray Cleaner

SECTION 5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes
Foam: Yes
Halon: Yes

Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

Explosion Sensitivity to Mechanical Impact: No Explosion Sensitivity to Static Discharge: Yes

FLASH POINT: Not determined

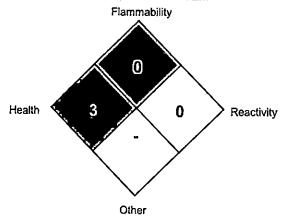
AUTOIGNITION TEMPERATURE: Not determined

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

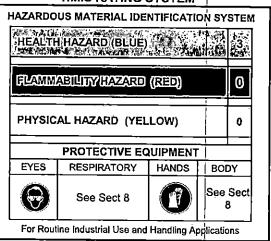
5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils

6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safety. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces. (see Section 13, Disposal Considerations).

SECTION 7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices. When handling, do not eat, drink, or smoke. Handle in a well-ventilated work area.

2 STORAGE AND HANDLING PRACTICES:

Store in original container. Keep away from: oxidizing agents. Keep in a well-ventilated area in closed containers. Protect containers from physical damage.



Reliable Spray Cleaner

7.3 SPECIFIC USES:

Cleaning agent

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

o.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#_	ACGIH TLV	OSHA TWA
Ethylene Glycol Butyl Ether	111-76-2	20 ppm	50 ppm 240 mg/m ³

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

RESPIRATORY PROTECTION: Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

EYE PROTECTION: Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

HAND PROTECTION: Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Blue thin liquid

ODOR: Mild odor

ODOR THRESHOLD: Not Applicable

pH: 13-14

MELTING/FREEZING POINT: Not Available

BOILING POINT: 212°F (100°C) **FLASH POINT:** Not Available

EVAPORATION RATE (n-BuAc=1): 1.0 FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available

VAPOR DENSITY: Not Available RELATIVE DENSITY: Not Available

SPECIFIC GRAVITY: 1.043

SOLUBILITY IN WATER: Complete **WEIGHT PER GALLON:** Not Available

PARTITION COEFFICENT (n-octanol/water): Not Available

AUTO-IGNITION TEMPERATURE: Not Applicable DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Available 9.2 OTHER INFORMATION:

No additional information available

SECTION 10. STABILITY and REACTIVITY

J.1 REACTIVITY:

None known

Reliable Products



Reliable Spray Cleaner

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

.0.4 CONDITIONS TO AVOID:

Contact with incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of nitrogen and oxygen.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Ethylene Glycol Butyl Ether	111-76-2	LD50 Oral	470 mg/kg	Rat
		LD50 Inhalation	450 ppm (4 h)	Rat
		LD50 Dermal	200 mg/kg	Rabbit

SUSPECTED CANCER AGENT: None of the components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds.

IRRITANCY OF PRODUCT: This product may be irritating to skin, eyes or respiratory system. SENSITIZATION TO THE PRODUCT: This product is not a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

				_	Ī
Ethylene Glycol Butyl Ether	111-76-2	LC50	200 mg/l 96 h	Other Fish	
, , , , , , , , , , , , , , , , , , , ,			200 mg/r 00 m	Outof Fiori	<u></u>
		EC50	1,815 m/l – 24 h	Daphnia magn	a

2.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada

SECTION 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14. 1 UN IDENTIFICATION NUMBER:

UN1760

14.2 PROPER SHIPPING NAME:

Corrosive liquids, n.o.s. (Contains EGBE)

14.3 HAZARD CLASS NUMBER and DESCRIPTION:

Class 8 - Corrosive

14.4 PACKING GROUP:

Ш

DOT LABEL(S) REQUIRED:

Corrosive

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 153

_4.5 ENVIRONMENTAL HAZARDS: (RQ QUANTITY):

None MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be

Marine Pollutants (49 CFR 172.101, Appendix B).

Reliable Products

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Reliable Spray Cleaner

14.6 SPECIAL PRECAUTION FOR USER:

None

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE: UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302 and 304 of Title III of the Superfund Amendments and Reauthorization Act.

The components of this product, CAS 111-76-2, are subject to the reporting requirements of Sections 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

SARA 311/312: Acute Health: Yes:

Chronic Health: No;

Fire: No:

Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None known.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is a Class E, Corrosive, and a D2B, Materials Causing Other Toxic Effects, per WHMIS Controlled Product Regulations.



SECTION 16. OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

PREPARED BY:

Chris Eigbrett - (MSDS to GHS Compliance)

DATE OF PRINTING:

June 24, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Reliable Products assumes no responsibility for injury to vendee or third party person proximately saused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, reliable Products assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET

Reliable Products

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Reliable Spray Cleaner

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

A1002

SECTION 1. PRODUCT IDENTIFICATION

1 TRADE NAME (AS LABELED):

SYNONYMS: CAS#:

1.2 PRODUCT USE:

CHEMICAL SHIPPING NAME/CLASS:

U.N. NUMBER:

1.3 NORTH AMERICA:

MANUFACTURER'S NAME:

ADDRESS:

BUSINESS PHONE:

EMAIL:

WEB SITE INFORMATION:

1.4 EMERGENCY PHONE NUMBERS:

<u>DATE OF CURRENT REVISION:</u>
<u>DATE OF LAST REVISION:</u>

Reliable Spray Cleaner

N/A Mixture

Cleaning agent

Corrosive liquids, N.O.S / Class 8 - Corrosive

UN1760

Reliable Products

639 Fitch Street, Oneida, NY 13421

800-932-8742

spraynwipe@aol.com reliableproductsonline.com

1-800-424-9300 (CHEMTREC - 24 Hrs)

July 02, 2014 December 20, 2004

SECTION 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a blue thin liquid with a mild odor.

Health Hazards: Corrosive: May cause serious eye damage. May be harmful if swallowed, inhaled, or in contact

with skin.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: Corrosive.

Environmental Hazards: The Environmental effects of this product have not been investigated, however release may

cause adverse environmental effects.

GHS Hazard Symbol(s)



CANADA (WHMIS) SYMBOL(S)



US DOT SYMBOL(S)



Signal Word: Danger!

2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by Health Canada and the OSHA (as described in 29 CFR 1910.1200(d))

Component(s) Contributing to Classification(s)

Ethylene Glycol Butyl Ether

2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

Acute toxicity, Oral Category 4
Acute toxicity, Dermal Category 4
Acute toxicity, Inhalation Category 4
Skin Corrosion/Irritation Category 1B

Serious Eye Damage Category 1

Hazard Statement(s):

H302 Harmful if swallowed H332 Harmful if inhaled

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

Precautionary Statement(s)

P260 Do not breath dusts or mists

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

Reliable Products

Storage Statement(s):

P403+P235 Store in a well-ventilated place. Keep cool

Disposal Statement(s):

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Response Statement(s):

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Page 1 of 6



Reliable Spray Cleaner

Precautionary Statement(s) continued:

P271 Use only outdoors or in a well-ventilated area

P280 Use protective gloves/protective clothing/eye protection/face protection

Response Statement(s) continued:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a Poison Center or doctor if you feel unwell P362+P364 Take off contaminated clothing and wash it before reuse

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Harmful if inhaled. Mist or spray may cause a burning sensation, cough, shortness of breath, or sore throat. May effect behavior, cause headaches or vomiting

CONTACT WITH SKIN: Corrosive material may cause redness, skin burns, or blisters.

EYE CONTACT: Corrosive material may cause irritation with possible burns and tissue damage.

INGESTION: Harmful if swallowed. May cause irritation or pain to the gastrointestinal tract. . May affect

behavior/central nervous system

CHRONIC: Prolonged exposure to the skin may cause irritation, dryness, or cracking. Prolonged or repeated inhalation or ingestion may affect the blood, kidneys, or liver.

TARGET ORGANS:

Acute: S

Skin, Eyes, Respiratory System, Central Nervous System

Chronic: Skin, blood, kidneys, liver

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Ethylene Glycol Butyl Ether	5 – 10%	111-76-2	[Xn] Harmful
Balance of other ingredients are non-hazardous respiratory sensitizers).	or less than 1% in concentratio	n (< 0.1% for carcino	ogens, reproductive toxins, or

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin problems may be aggravated by prolonged contact.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with possible burns and tissue damage. Prolonged skin exposure may cause mild irritation or dryness. Prolonged or repeated inhalation or ingestion may cause hematuria (blood in the urine)

3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

Reliable Products



Reliable Spray Cleaner

SECTION 5. FIRE-FIGHTING MEASURES

<u>5.1 FIRE EXTINGUISHING MATERIALS:</u>

Use fire extinguishing methods below:

Water Spray: Yes Foam: Yes

<u>Carbon Dioxide</u>: Yes <u>Dry Chemical</u>: Yes

Halon: Yes

Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

Explosion Sensitivity to Mechanical Impact: No Explosion Sensitivity to Static Discharge: Yes

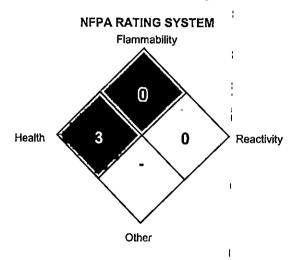
FLASH POINT: Not determined

AUTOIGNITION TEMPERATURE: Not determined

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.





Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils

6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safety. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces. (see Section 13, Disposal Considerations).

SECTION 7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices. When handling, do not eat, drink, or smoke. Handle in a well-ventilated work area.

! STORAGE AND HANDLING PRACTICES:

Store in original container. Keep away from: oxidizing agents. Keep in a well-ventilated area in closed containers. Protect containers from physical damage.



Reliable Spray Cleaner

7.3 SPECIFIC USES:

Cleaning agent

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

6.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Ethylene Glycol Butyl Ether	111-76-2	20 ppm	50 ppm 240 mg/m ³

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

RESPIRATORY PROTECTION: Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

EYE PROTECTION: Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

HAND PROTECTION: Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards, If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Blue thin liquid

ODOR: Mild odor

ODOR THRESHOLD: Not Applicable

pH: 13-14

MELTING/FREEZING POINT: Not Available

BOILING POINT: 212°F (100°C) FLASH POINT: Not Available

EVAPORATION RATE (n-BuAc=1): 1.0

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available

VAPOR DENSITY: Not Available **RELATIVE DENSITY: Not Available**

SPECIFIC GRAVITY: 1.043

SOLUBILITY IN WATER: Complete WEIGHT PER GALLON: Not Available

PARTITION COEFFICENT (n-octanol/water): Not Available

AUTO-IGNITION TEMPERATURE: Not Applicable DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Available

9.2 OTHER INFORMATION:

No additional information available

SECTION 10. STABILITY and REACTIVITY

.J.1 REACTIVITY:

None known

Reliable Products



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10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

.0.4 CONDITIONS TO AVOID:

Contact with incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of nitrogen and oxygen.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Ethylene Glycol Butyl Ether	111-76-2	LD50 Oral	470 mg/kg	Rat
	ľ	LD50 Inhalation	450 ppm (4 h)	Rat
		LD50 Dermal	200 mg/kg	Rabbit

SUSPECTED CANCER AGENT: None of the components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds.

IRRITANCY OF PRODUCT: This product may be irritating to skin, eyes or respiratory system. **SENSITIZATION TO THE PRODUCT:** This product is not a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

				!
Ethylene Glycol Butyl Ether	111-76-2	LC50	200 mg/l – 96 h	Other Fish
		EC50	1,815 m/l – 24 h	Daphnia magna

2.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada

SECTION 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14. 1 UN IDENTIFICATION NUMBER:

UN1760

14.2 PROPER SHIPPING NAME:

Corrosive liquids, n.o.s. (Contains EGBE)

14.3 HAZARD CLASS NUMBER and DESCRIPTION:

Class 8 - Corrosive

14.4 PACKING GROUP:

III

DOT LABEL(S) REQUIRED:

Corrosive

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 153

15 ENVIRONMENTAL HAZARDS: (RQ QUANTITY):

None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

Reliable Products

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Reliable Spray Cleaner

14.6 SPECIAL PRECAUTION FOR USER:

None

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as

dangerous goods.

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE: **UNITED STATES REGULATIONS:**

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302 and 304 of Title III of the Superfund Amendments and Reauthorization Act.

The components of this product, CAS 111-76-2, are subject to the reporting requirements of Sections 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filling threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370,20.

SARA 311/312: Acute Health: Yes:

Chronic Health: No:

Fire: No:

Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None known.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is a Class E, Corrosive, and a D2B, Materials Causing Other Toxic Effects, per WHMIS Controlled Product Regulations.



SECTION 16. OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PREPARED BY:

Chris Eigbrett - (MSDS to GHS Compliance)

DATE OF PRINTING:

June 24, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Reliable Products assumes no responsibility for injury to vendee or third party person proximately aused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, teliable Products assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET

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Version: 1.0

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TION 1: IDENTIFICATION

duct Identifier Product Form: Mixture

Product Name: Ultimate Xtreme Clean All Surface Cleaner Degreaser

Product Code: 832XX Intended Use of the Product

Use of the Substance/Mixture: Cleaner

Name, Address, and Telephone of the Responsible Party

Company Starbrite²

4041 SW 47th Avenue Fort Lauderdale, FL 33314

(954)587-6280 www.starbrite.com

Emergency Telephone Number

Emergency number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US) Skin Irrit. 2 H315 Eve Irrit, 2A H319 Carc. 2 H351 Label Elements **GHS-US Labeling**

Hazard Pictograms

HS-US)



Signal Word (GHS-US)

Hazard Statements

(GHS-US)

Warning

H315 - Causes skin irritation

H319 - Causes sérious eye irritation

H351 - Suspected of causing cancer

Precautionary Statements (GHS-US) P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands, forearms and exposed areas thoroughly after handling.

P280 - Wear eye protection, protective gloves, protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see Section 4).

P332+P337+P313 - If skin irritation occurs or eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P405+P501 - Store locked up. Dispose of contents/container according to local, regional, national,

territorial, provincial, and international regulations.

Other Hazards

Aquatic Acute 3

H402 - Harmful to aquatic life

P273 - Avoid release to the environment

ther Hazards. Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory anditions.

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"hknown Acute Toxicity (GHS-US) Not available

TION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture			
Name	Product identifier	% (w/w)	Classification (GHS-US)
Tetrasodium EDTA	(CAS No) 64-02-8	1 - 5	Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Inhalation:dust,mist), H332
			Eye Dam. 1, H318
			Aquatic Acute 2, H401
Alcohols, C9-11, ethoxylated	(CAS No) 68439-46-3	1 - 5	Acute Tox. 4 (Oral), H302
			Eye Dam. 1, H318
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	1-5	Flam. Liq. 4, H227
,			Eye Irrit. 2A, H319
Nitrilotriacetic acid trisodium salt	(CAS No) 5064-31-3	0.1 - 1	Acute Tox. 4 (Oral), H302
	! !		Eye Irrit. 2A, H319
	_		Carc. 2, H351
Sodium hydroxide	(CAS No) 1310-73-2	0.1 - 1	Met. Corr. 1, H290
•			Skin Corr. 1A, H314
			Eye Dam. 1, H318
			Aquatic Acute 3, H402

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. The Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing.

fore reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Irritating to eyes, respiratory system and skin.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Suspected of causing cancer.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use carbon dioxide. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: May be corrosive to metals over a prolonged period of contact.

Advice for Firefighters

Crecautionary Measures Fire: Exercise caution when fighting any chemical fire.

refighting Instructions: Do not allow run-off from fire fighting to enter drains or water courses.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Toxic fumes are released.

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Peference to Other Sections Refer to section 9 for flammability properties.

TION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow contact with metals. Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor, mist, gas).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Emergency Procedures: Ventilate area. Stop leak if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Storage areas should be periodically checked for integrity.

**compatible Materials: Strong acids. Strong oxidizers. Metals.

pecial Rules on Packaging: Store in original container.

specific End Use(s) Cleaner.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters			
Diethylene glycol monobuty	l ether (112-34-5)		
USÁ ÁCGIH	ACGIH TWA (ppm)	10 ppm	
Manitoba	OEL TWA (ppm)	10 ppm	
Newfoundland & Labrador	OEL TWA (ppm)	10 ppm	
Nova Scotia	OEL TWA (ppm)	10 ppm	
Prince Edward Island	OEL TWA (ppm)	10 ppm	
Sodium hydroxide (1310-73	-2)		
Mexico	OEL Ceiling (mg/m³)	2 mg/m³	_
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³	_
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³	
USA IDLH	US IDLH (mg/m³)	10 mg/m³	
Alberta	OEL Ceiling (mg/m³)	2 mg/m³	
British Columbia	OEL Ceiling (mg/m³)	2 mg/m³	
Manitoba	OEL Ceiling (mg/m³)	2 mg/m³	
New Brunswick	OEL Ceiling (mg/m³)	2 mg/m³	
Newfoundland & Labrador	OEL Ceiling (mg/m³)	2 mg/m ³	
Nova Scotia	OEL Ceiling (mg/m³)	2 mg/m ³	
Nunavut	OEL Ceiling (mg/m³)	2 mg/m ³	
orthwest Territories	OEL Ceiling (mg/m³)	2 mg/m ³	
entario	OEL Ceiling (mg/m³)	2 mg/m ³	
Prince Edward Island	OEL Ceiling (mg/m³)	2 mg/m ³	

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-O··ébec	PLAFOND (mg/m³)	2 mg/m³
skatchewan	OEL Ceiling (mg/m³)	2 mg/m ³
Yukon	OEL Ceiling (mg/m³)	2 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Ensure a dequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective clothing. Safety glasses. Face shield. Gloves. Insufficient ventilation: wear respiratory protection.











Materials for Protective Clothing: Corrosion proof clothing. Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed

established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical	<u>Properties</u>	
Physical State	:	Liquid
Appearance	:	Clear
Odor	:	Pleasant
Odor Threshold	:	Not available
^{'~} 4	:	12
lative Evaporation Rate (butylacetate=1)	:	Not available
Melting/Freezing Point	:	0 °C (32 °F)

Not available **Boiling Point** > 100 °C (> 212 °F) Flash Point Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available Upper/Lower Flammable Limit Not available Vapor Pressure Not available Relative Vapor Density at 20 °C

Relative Vapor Density at 20 °C : Not available
Relative Density/Specific Gravity : 1.003 (water = 1)
Solubility : Water: High
Partition coefficient: n-octanol/water : Not available

Viscosity : 6.5 cSt @ 100 °C (212 °F)

Explosion Data - Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.

Explosion Data - Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals over a prolonged period of contact.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Contact with metallic substances.

Incompatible Materials: Oxidizers. Strong acids. Alkalis and caustic products. Halogens. Metals.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Thermal decomposition generates toxic vapours.

CTION 11: TOXICOLOGICAL INFORMATION

iformation on Toxicological Effects - Product

Acute Toxicity: Not classified

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Ultimate Xtreme Clean All Surface Cleaner Degreaser Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations ♣₽50 and LC50 Data: Not available n Corrosion/Irritation: Causes serious eye irritation. (pH: 12; alkali reserve: 2.52) Serious Eye Damage/Irritation: Causes skin rritation. (pH: 12; alkali reserve: 2.52) Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not available Carcinogenicity: Suspected of causing cancer. Specific Target Organ Toxicity (Repeated Exposure): Not classified Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure): Not classified Aspiration Hazard: Not classified Symptoms/Injuries After Inhalation: May cause respiratory irritation. Symptoms/Injuries After Skin Contact: Causes skin irritation. Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Information on Toxicological Effects - Ingredient(s) LD50 and LC50 Data: Alcohols, C9-11, ethoxylated (68439-46-3) 1400 mg/kg LD50 Oral Rat Tetrasodium EDTA (64-02-8) 1780 mg/kg LD50 Oral Rat Diethylene glycol monobutyl ether (112-34-5) 3384 mg/kg LD50 Oral Rat 2700 mg/kg LD50 Dermal Rabbit Nitrilotriacetic acid trisodium salt (5064-31-3) 920 mg/kg ⊲50 Oral Rat > 5 mg/l/4h 11.50 Inhalation Rat (mg/l) Nitrilotriacetic acid trisodium salt (5064-31-3) 28 IARC Group SECTION 12: ECOLOGICAL INFORMATION Toxicity Ecology - General: Harmful to aquatic life. Tetrasodium EDTA (64-02-8) 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) LC50 Fish 1 1.01 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) EC50 Other Aquatic Organisms 1 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) LC 50 Fish 2 Sodium hydroxide (1310-73-2) 40 mg/l LC50 Fish 1 Nitrilotriacetic acid trisodium salt (5064-31-3) 93 - 170 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) LC50 Fish 1 560 - 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 Daphnia 1 175 - 225 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus (static)) LC 50 Fish 2 Diethylene glycol monobutyl ether (112-34-5) 1300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) LC50 Fish 1 > 100 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 Daphnia 1 > 100 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus) EC50 Other Aquatic Organisms 1 Persistence and Degradability Ultimate Xtreme Clean All Surface Cleaner Degreaser Not established. ersistence and Degradability

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Ultimate Xtreme Clean All Surface Cleaner Degreaser Safety Data Sheet according to Federal Register/Vol. 77, No. 58 / Monday March 26, 2012 / Rules and Regulations **Ripaccumulative Potential** imate Xtreme Clean All Surface Cleaner Degreaser Bioaccumulative Potential Not established. Diethylene glycol monobutyl ether (112-34/5) (no bioconcentration expected) BCF fish 1 Mobility in Soil Not available Other Adverse Effects Other Information: Avoid release to the environment. SECTION 13: DISPOSAL CONSIDERATIONS Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. **Ecology - Waste Materials:** Avoid release to the environment. SECTION 14: TRANSPORT INFORMATION In Accordance With ICAO/IATA/DOT/TDG **UN Number** Not regulated for transport UN Proper Shipping Name Not regulated for transport Additional Information Not available Transport by sea Not regulated for transport Air transport Not regulated for transport **SECTION 15: REGULATORY INFORMATION US Federal Regulations**

Ultimate Xtreme Clean All Surface Cleaner Degreaser Immediate (acute) health hazard SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard jtohols, C9-11, ethoxylated (68439-46-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory Nitrilotriacetic acid trisodium salt (5064-31-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory Sodium hydroxide (1310-73-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory Tetrasodium EDTA (64-02-8) Listed on the United States TSCA (Toxic Substances Control Act) inventory Diethylene glycol monobutyl ether (112-34-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. **EPA TSCA** Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a Regulatory Flag specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. **US State Regulations** Alcohols, C9-11, ethoxylated (68439-46-3) U.S. - Texas - Effects Screening Levels - Long Term

U.S Texas - Effects Screening Levels - Sno	rt ierm	 <u> </u>
Nitrilotriacetic acid trisodium salt (5064-3	1-3)	 !
U.S Illinois - Toxic Air Contaminant Carcin	hogens	
U.S Illinois - Toxic Air Contaminants		
U.S Massachusetts - Right To Know List		,
U.S Texas - Effects Screening Levels - Lon		
U.S Texas - Effects Screening Levels - Sho	rt Term	 <u> </u>
trasodium EDTA (64-02-8)		
u.S Texas - Effects Screening Levels - Lon	g Term	
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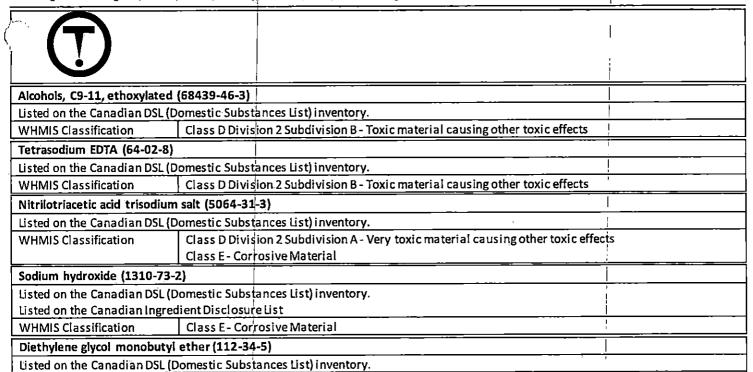
according to Federal Register / Vol. 77, No. 58 / Monday March 26, 2012 / Rules and Regulations

according to Federal Register/Vol. 77, No	o. 58 / Monday March 26, 2012 / Rules and Regulations
S Texas - Effects Screening L	evels - Short Term
dium hydroxide (1310-73-2)	
U.S California - SCAQMD - Toxi	c Air Contaminants - Non-Cancer Acute
U.S California - Toxic Air Conta	minant_List (AB 1807, AB 2728)
U.S Connecticut - Hazardous A	
U.S Connecticut - Hazardous A	
	narge Requirements - Reportable Quantities
U.S Idaho - Non-Carcinogenic	Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic	Toxic Air Pol)utants - Emission Levels (ELs)
U.S Idaho - Occupational Expo	sure Limits TWAs
U.S Louisiana - Reportable Qua	
U.S Massachusetts - Oil & Haza	ardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S Massachusetts - Oil & Haza	ardous Material List-Groundwater Reportable Concentration - Reporting Category 2
U.S Massachusetts - Oil & Haza	ardous Material List - Reportable Quantity
	ardous Material List - Soil Reportable Concentration - Reporting Category 1
	ardous Material List-Soil Reportable Concentration - Reporting Category 2
U.S Massachusetts - Right To H	
U.S Massachusetts - Toxics Us	
U.S Michigan - Occupational E	xposure Limits - Ceilings
U.S Michigan - Polluting Mate	
U.S Minnesota - Chemicals of	-
U.S Minnesota - Hazardous Su	
U.S Minnesota - Permissible E	
	evention - List of Hazardous Substances
U.S New Jersey - Right to Know	
S New Jersey - Special Healt	
S New York - Occupational I	
	eleases Part 597 - List of Hazardous Substances
	nts - Guideline Concentrations - 1-Hour
U.S Oregon - Permissible Expo	
	to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right	Acceptable Ambient Levels - 1-Hour
· ·	·
I	Acceptable Ambient Levels - Annual Pollutants - Maximum Allowable Concentrations
0.0. 00000.0000000000000000000000000000	Pollutants - Pollutant Categories
U.S Tennessee - Occupational	
U.S Texas - Effects Screening I	
U.S Texas - Effects Screening I	au
U.S Vermont - Permissible Exp	·
U.S Washington - Permissible	
	r Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
	r Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
	r Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
1	r Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
Diethylene glycol monobutyl e	
U.S Texas - Effects Screening	
U.S Texas - Effects Screening	T
Canadian Regulations	
Ultimate Xtreme Clean All Surfa	ace Cleaner Degreaser
HMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS -centains all of the information required by CPR.

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

TION 16: OTHER INFORMATION, INCLUDING DATA ON DATE OF PREPARATION OR LAST REVISION

Revision date

: 06/23/2014

Class B Division 3 - Combustible Liquid

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

WHMIS Classification

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2		
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3		
Carc. 2	Carcinogenicity Category 2		
Eye Dam. 1	Serious eye damage/eye irritation Category 1		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
Flam. Liq. 4	Flammable liquids Category 4		
Met. Corr. 1	Corrosive to metals Category 1		
Skin Corr. 1A	Skin corrosion/irritation Category 1A		
H227	Combustibleliquid		
H290	May be corrosive to metals		
H302	Harmful if swallowed		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H351	Suspected of causing cancer		
H401	Toxic to aquatic life		
H402	Harmful to aquatic life		

06/23/2014 FKATT.B-CC

EN (English US)

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Safety Data Sheet

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*** PA Health Hazard

: 1 - Exposure could cause irritation but only minor residual injury even if no

treatment is given.

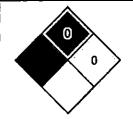
NFPA Fire Hazard

0 - Materials that will not burn.

NFPA Reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with

water



Party Responsible for the Preparation of This Document

Starbrite®

Phone Number: (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

Version 1.0

Revision Date: 05/11/2016

Print Date: 05/12/2016

SECTION 1. IDENTIFICATION

Product name

Shell Rotella T4 Triple Protection 15W-40

Product code

001F8880

Manufacturer or supplier's details

Manufacturer/Supplier

: Shell Oil Products US

PO Box 4427

Houston TX 77210-4427

USA

SDS Request

Customer Service

(+1) 877-276-7285

Emergency telephone number

Spill Information Health Information : 877-504-9351 : 877-242-7400

Recommended use of the chemical and restrictions on use

Recommended use

: Engine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Hazard pictograms

: No Hazard Symbol required

Signal word

: No signal word

Hazard statements

PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Precautionary statements

: Prevention:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3, COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

- : Highly refined mineral oils and additives.
 The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.
 - * contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (%)
Alkaryl amine		36878-20-3	1 - 3
Calcium sulphonate		70024-69-0	0.1 - 0.99
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0, - 90

SECTION 4. FIRST-AID MEASURES

General advice

: Not expected to be a health hazard when used under normal

conditions.

If inhaled

: No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

In case of skin contact

: Remove contaminated clothing. Flush exposed area with wa-

ter and follow by washing with soap if available.

If persistent irritation occurs, obtain medical attention.

In case of eye contact

: Flush eye with copious quantities of water.

If persistent irritation occurs, obtain medical attention.

If swallowed

: In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Most important symptoms and effects, both acute and delayed

: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Protection of first-aiders

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the

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910.1200		
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	incident, injury and surroundings.	
Immediate medical attenti special treatment	on, : Treat symptomatically.	
ECTION 5. FIRE-FIGHTING	MEASURES	İ
Suitable extinguishing me	dia : Foam, water spray or fog. Dry chemical powder, ca ide, sand or earth may be used for small fires only.	rbon diox-
Unsuitable extinguishing media	: Do not use water in a jet.	! !
Specific hazards during fil fighting	re- : Hazardous combustion products may include: A complex mixture of airborne solid and liquid partic gases (smoke). Carbon monoxide may be evolved if incomplete cor occurs. Unidentified organic and inorganic compounds.	
Specific extinguishing me ods	th- : Use extinguishing measures that are appropriate to cumstances and the surrounding environment.	local cir-
Special protective equipm for firefighters	 Proper protective equipment including chemical resignates are to be worn; chemical resistant suit is ind large contact with spilled product is expected. Self-Breathing Apparatus must be worn when approach a confined space. Select fire fighter's clothing approach relevant Standards (e.g. Europe: EN469). 	icated if Contained ing a fire in
ECTION 6. ACCIDENTAL R	ELEASE MEASURES	
Personal precautions, pro tive equipment and emer- gency procedures		1 1 1
Environmental precaution	nation. Prevent from spreading or entering drains, or rivers by using sand, earth, or other appropriate ba Local authorities should be advised if significant sp	ditches or rriers.
Methods and materials fo containment and cleaning	· · · · · · · · · · · · · · · · · · ·	ind, earth
Additional advice	: For guidance on selection of personal protective ed	; quipment

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
,		(Form of	ters / Permissible	
		exposure)	concentration	
Oil mist, mineral	Not Assigned	TWA ((inhal-	5 mg/m3	US. ACGIH
		able frac-		Threshold
		tion))		Limit Values
		(Mist)	5 mg/m3	OSHA_TRA
			•	NS -
		TWA (Mist)	5 mg/m3	OSHA Z-1

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	tions should be taken to avoid If engineering controls do not tions to a level which is adequal select respiratory protection e cific conditions of use and me Check with respiratory protec	maintain airborne concentra- uate to protect worker health, equipment suitable for the spe- eting relevant legislation. tive equipment suppliers. are suitable, select an appro- nd filter. combination of organic gases
Hand protection		ſ ŀ
Remarks	US: F739) made from the followitable chemical protection. gloves Suitability and durability usage, e.g. frequency and dusistance of glove material, de glove suppliers. Contaminate Personal hygiene is a key ele Gloves must only be worn on gloves, hands should be was cation of a non-perfumed moi For continuous contact we rethrough time of more than 24 480 minutes where suitable gloves may not be available and in the time maybe acceptable so londers to the suitable gloves and the suitable gloves may not be available and in the suitable gloves may not be available gloves may not be available and in the	standards (e.g. Europe: EN374, owing materials may provide PVC, neoprene or nitrile rubber ty of a glove is dependent on ration of contact, chemical rexterity. Always seek advice from d gloves should be replaced. The ment of effective hand care. I clean hands. After using hed and dried thoroughly. Applicisturizer is recommended. The commend gloves with break-to minutes with preference for ploves can be identified. For the recommend the same, but so offering this level of protection his case a lower breakthroughing as appropriate maintenance of followed. Glove thickness is not estance to a chemical as it is position of the glove material.
Eye protection	: If material is handled such the protective eyewear is recommended.	at it could be splashed into eyes nended.
Skin and body protection	 Skin protection is not ordinari work clothes. It is good practice to wear ch 	ı
Protective measures	 Personal protective equipmended national standards. 	
Environmental exposure	controls	i
General advice	vant environmental protection of the environment by followin necessary, prevent undissolvent	ste water should be treated in a

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discharge to surface water.

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: Clear amber

Odour

: Slight hydrocarbon

Odour Threshold

: Data not available

Ηq

: Not applicable

pour point

: -45 °C / -49 °FMethod: ASTM D97

Initial boiling point and boiling

range

: > 280 °C / 536 °Festimated value(s)

Flash point

: 234 °C / 453 °F Method: ASTM D92

Evaporation rate

: Data not available

Flammability (solid, gas)

: Data not available

Upper explosion limit

: Typical 10 %(V)

Lower explosion limit

: Typical 1 %(V)

Vapour pressure

: < 0.5 Pa (20 °C / 68 °F) estimated value(s)

Relative vapour density

: > 1estimated value(s)

Relative density

: 0.878 (15 °C / 59 °F)

Density

: 878 kg/m3 (15.0 °C / 59.0 °F)

Method: ASTM D4052

Solubility(ies)

Water solubility

: negligible

Solubility in other solvents

: Data not available

Partition coefficient: n-

octanol/water

: Pow: > 6(based on information on similar products)

Auto-ignition temperature

320 °C / 608 °F

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Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 14.9 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	; !
Conductivity	: This material is not expected to be	a static accumulator.
Decomposition temperature	: Data not available	! !
ECTION 10. STABILITY AND RE	EACTIVITY	,
Reactivity	: The product does not pose any fur addition to those listed in the follow	
Chemical stability	; Stable.	
Possibility of hazardous reactions	: Reacts with strong oxidising agent	s. !
Conditions to avoid	: Extremes of temperature and direct	ct sunlight.
Incompatible materials	: Strong oxidising agents.	ı
Hazardous decomposition products	: Hazardous decomposition product during normal storage.	s are not expected to form
SECTION 11. TOXICOLOGICAL	INFORMATION	
Basis for assessment	: Information given is based on data the toxicology of similar products.U the data presented is representativ whole, rather than for individual con	nless indicated otherwise, e of the product as a
Information on likely routes Skin and eye contact are the accidental ingestion.	s of exposure primary routes of exposure although exp	oosure may occur following
Skin and eye contact are the	s of exposure primary routes of exposure although exp	posure may occur following
Skin and eye contact are the accidental ingestion.	 of exposure primary routes of exposure although exp : LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low to: 	1
Skin and eye contact are the accidental ingestion. Acute toxicity Product:	primary routes of exposure although exp : LD50 (rat): > 5,000 mg/kg	xicity:

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SAFETY DATA SHEE		;
	ommunication Standard, 29 CFR	
910.1200	-	
/ersion 1.0	Revision Date: 05/11/2016	Print Date: 05/12/2016
	Remarks: Expected to be of low t	oxicity:
		1
Skin corrosion/irritation		
Product: Remarks: Expected to be cleaning can clog the po	e slightly irritating., Prolonged or repeated s res of the skin resulting in disorders such a	skin contact without proper s oil acne/folliculitis.
Serious eye damage/ey	e irritation	1
<u>Product:</u> Remarks: Expected to b	e slightly irritating.	
Respiratory or skin se	nsitisation	
Product:		
Remarks: Not expected	to be a skin sensitiser.	
Components: Calcium sulphonate: Remarks: May cause an	allergic skin reaction in sensitive individual	is .
Remarks: Classified Ski	n Sensitiser Category 1B.	!
Germ cell mutagenicity	,	
<u>Product:</u>	: Remarks: Not considered a muta	agenic hazard.
Carcinogenicity		
Product: Remarks: Not expected	to be carcinogenic.	<u> </u>
Remarks: Product conta painting studies., Highly al Agency for Research	ains mineral oils of types shown to be non-content refined mineral oils are not classified as cat on Cancer (IARC).	arcinogenic in animal skin- rcinogenic by the Internation-
Reproductive toxicity		
Product:		
	: Remarks: Not expected to impai a developmental toxicant.	r fertility., Not expected to be
STOT - single exposu	re	
Product:		
Remarks: Not expected	to be a hazard.	

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STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

SECTION 12, ECOLOGICAL INFORMATION

Basis for assessment

: Ecotoxicological data have not been determined specifically

for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of

product required to prepare aqueous test extract).

Ecotoxicity

Product:

Toxicity to fish (Acute toxici-

ty)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (Acute

toxicity)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae (Acute tox-

icity)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

: Remarks: Data not available

Toxicity to daphnia and other : Remarks: Data not available aquatic invertebrates (Chron-

ic toxicity)

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Toxicity to bacteria (Acute toxicity)	: Remarks: Data not available	
Persistence and degradab	ility	1
Product:		ļ
Biodegradability	 Remarks: Expected to be not read Major constituents are expected ble, but contains components the ment. 	to be inherently biodegrada-
Bioaccumulative potential		1
Product:		
Bioaccumulation	: Remarks: Contains components cumulate.	with the potential to bioac-
Mobility in soil		
Product:		I
Mobility	 Remarks: Liquid under most env If it enters soil, it will adsorb to s mobile. 	
	Remarks: Floats on water.	,
Other adverse effects		1
no data available		1
		' 1
Product: Additional ecological information	 Product is a mixture of non-volate expected to be released to air in Not expected to have ozone deposal ozone creation potential or g 	any significant quantities. Detion potential, photochemi-
	Poorly soluble mixture.	1
	May cause physical fouling of ac	quatic organisms.
	Mineral oil is not expected to ca aquatic organisms at concentrat	
ECTION 13. DISPOSAL CONS	BIDERATIONS	1
Disposal methods Waste from residues	: Waste product should not be all ground water, or be disposed of Waste, spills or used product is	into the environment.
	Disposal should be in accordant national, and local laws and reg Local regulations may be more:	ulations.
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Contaminated packaging	tional requirements and must be Dispose in accordance with pre to a recognized collector or con the collector or contractor shou Disposal should be in accordan national, and local laws and reg	evailing regulations, preferably stractor. The competence of ld be established beforehand.
		1
		!
SECTION 14 TRANSPORT INF	CORMATION	1

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category

Ship type

Product name

Special precautions

: Not applicable

Not applicable

Not applicable : Not applicable

Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

Additional Information

: MARPOL Annex 1 rules apply for bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

California Prop 65

: This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm.

The components of this product are reported in the following inventories:

EINECS

: All components listed or polymer exempt.

TSCA

: All components listed.

DSL

: All components listed.

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SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR

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SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Abbreviations and Acronyms

: The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists

ADR = European Agreement concerning the International

Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances

ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council

CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

DIN = Deutsches Institut fur Normung

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DSL = Canada Domestic Substance List

EC = European Commission

EC50 = Effective Concentration fifty

ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals

ECHA = European Chemicals Agency

EINECS = The European Inventory of Existing Commercial

Chemical Substances

EL50 = Effective Loading fifty

ENCS = Japanese Existing and New Chemical Substances

Inventory

EWC = European Waste Code

GHS = Globally Harmonised System of Classification and

Labelling of Chemicals

IARC = International Agency for Research on Cancer

JATA = International Air Transport Association

IC50 = Inhibitory Concentration fifty

IL50 = Inhibitory Level fifty

IMDG = International Maritime Dangerous Goods

INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty

LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of

SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR Print Date: 05/12/2016 Version 1.0 Revision Date: 05/11/2016_ Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level OE_HPV = Occupational Exposure - High Production Volume PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemical Substances PNEC = Predicted No Effect Concentration REACH = Registration Evaluation And Authorisation Of Chemicals RID = Regulations Relating to International Carriage of Dangerous Goods by Rail

SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

vPvB = very Persistent and very Bioaccumulative

Revision Date

: 05/11/2016

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 08/06/2018

Date of Issue: 06/24/2016

Supercedes date: 05/31/2018 Version: 3.0

TION 1: IDENTIFICATION

...oduct Identifier **Product Form: Mixture**

Product Name: Startron Enzyme Fuel Treatment - Gas

Product Code: 930XX

Intended Use of the Product

Use Of The Substance/Mixture: Fuel Additive

Name, Address, and Telephone of the Responsible Party

Company

Star brite® Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954) 587-6280 www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300; International: (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US/CA Classification

Flam. Liq. 4

H227

Asp. Tox. 1

H304

Full text of hazard classes and H-statements : see section 16

Label Elements

GHS-US/CA Labeling

azard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

Hazard Statements (GHS-US/CA)

: Danger

H227 - Combustible liquid.

H304 - May be fatal if swallowed and enters airways.

Precautionary Statements (GHS-US/CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P280 - Wear protective gloves, protective clothing, and eye protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 - Do NOT induce vomiting.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P403 - Store in a well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Aquatic Acute 3 Aguatic Chronic 3

H402 H412

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

P273 - Avoid release to the environment.

This material or its emissions may defat skin, cause contact dermatitis, or aggravate existing skin disease - may cause skin dryness or racking. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Unknown Acute Toxicity (GHS-US/CA)

data available

TION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>		_	
Name	Product Identifier	% *	GHS Ingredient Classification
Petroleum distillates, hydrotreated light	(CAS-No.) 64742-47-8	90 - 95	Asp. Tox. 1, H304
Petroleum distillates, hydrotreated light	(CAS-No.) 64742-47-8	< 10	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
	<u> </u>		Aquatic Acute 2, H401

Full text of H-phrases: see section 16

Aquatic Chronic 2, H411

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

estion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: May be fatal if swallowed and enters airways.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Repeated or prolonged skin contact may cause irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid.

Explosion Hazard: May form flammable or explosive vapor-air mixture. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

dvice for Firefighters

recautionary Measures Fire: Exercise caution when fighting any chemical fire.

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^{*}Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate ====a. Fight fire remotely due to the risk of explosion. Do not breathe fumes from fires or vapors from decomposition.

stection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrocarbons.

Other Information: This product does not sustain combustion according to ASTM D 4206. Do not allow run-off from firefighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Eliminate ignition sources. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for oisposal. Use only non-sparking tools. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. This product does not sustain combustion according to ASTM D 4206. Repeated or prolonged skin contact may cause dermatitis and defatting. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Use appropriate personal protective equipment (PPE). Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Keep in fireproof place.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s)

Fuel Additive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

The substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, porter, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Petroleum distiliates, hydrot	treated light (647	742-47-8)	
tish Columbia	OEL TWA (mg/r	n³) 200 mg/m³ (application restricted to	conditions in which
		there are negligible aerosol exposure	s)

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties			
Physical State	: Liquid		
Appearance	: Colorless, transparent liquid		
Odor	: Characteristic		
○ lor Threshold	: Not available		
;l	: Not available		
Evaporation Rate	: Not available		
Melting Point	: Not available		
Freezing Point	: Not available		
Boiling Point	: 148 - 290 °C (298.4 - 554 °F)		
Flash Point	: > 79 °C (174.2 °F) (Does not sustain combustion according to ASTM D 4206)		
Auto-ignition Temperature	: 215 - 220 °C (419 - 428 °F)		
Decomposition Temperature	: Not available		
Flammability (solid, gas)	: Not applicable		
Lower Flammable Limit	: 0.6 %		
Upper Flammable Limit	: 6%		
Vapor Pressure	: 0.1 mm Hg @ 20 °C		
Relative Vapor Density at 20°C	: 4.5 - 5 (air=1)		
Relative Density	: Not available		
Specific Gravity	: 0.795 - 0.803 @ 15 °C		
Solubility	: Water: Negligible		
Partition Coefficient: N-Octanol/Water	: Not available		
Viscosity	: Not available		
Viscosity, Kinematic	: 1.8 - 1.92 cSt @ 40 °C		
VOC content	: 100 %		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

nemical Stability: Combustible liquid. May form flammable or explosive vapor-air mixture.

<u>ssibility of Hazardous Reactions</u>: Hazardous polymerization will not occur.

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Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

<u>Conditions to Avoid</u>: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible terials, and other ignition sources.

ompatible Materials: Strong acids, strong bases, strong oxidizers.

<u>Hazardous Decomposition Products</u>: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Eve Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

mptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. The ajor health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Chronic Symptoms: None known.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Petroleum distillates, hydrotreated light (64742-	47-8)	
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	
LC50 Inhalation Rat	> 5.2 mg/l/4h	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Petroleum distillates, hydrotreated light	. (64742-47-8)
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

	Persistence and Degradability		
	Starbrite Startron Diesel Fuel Additive		
1	Desciptores and Descendability	May says long term adverse effects in the environment	

Bioaccumulative Potential			
Starbrite Startron Diesel Fuel Additiv	re		
Bioaccumulative Potential	Not established.		
Petroleum distillates, hydrotreated light (64742-47-8)			

Bioaccumulative Potential	Not established.	
Petroleum distillates, hydrotreated light	(64742-47-8)	
CF Fish 1	61 - 159	

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Startron Enzyme Fuel Treatment - Gas Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015). Mobility in Soil Not available her Adverse Effects her Information: Avoid release to the environment. SECTION 13: DISPOSAL CONSIDERATIONS Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations. Additional Information: Handle empty containers with care because residual vapors are flammable. Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways. **SECTION 14: TRANSPORT INFORMATION** The shipping description(s) stated herein we're prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. Not regulated for transport - Does not sustain combustion according to ASTM D 4206 In Accordance with DOT Marine Pollutant: No In Accordance with IMDG Not regulated for transport Not regulated for transport In Accordance with IATA In Accordance with TDG Not regulated for transport SECTION 15: REGULATORY INFORMATION **US Federal Regulations** Starbrite Startron Diesel Fuel Additive SARA Section 311/312 Hazard Classes Health hazard - Aspiration hazard Physical hazard - Flammable (gases, aerosols, liquids, or solids) Petroleum distillates, hydrotreated light (64742-47-8) Listed on the United States TSCA (Toxic Substances Control Act) inventory **5 State Regulations** retroleum distillates, hydrotreated light (64742-47-8) U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term Canadian Regulations Petroleum distillates, hydrotreated light (64742-47-8) Listed on the Canadian DSL (Domestic Substances List) SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION : 08/06/2018 Date of Preparation or Latest Revision : This document has been prepared in accordance with the SDS requirements of the OSHA Other Information Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17. **GHS Full Text Phrases:** Hazardous to the aquatic environment - Acute Hazard Category 2 Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 3 Aquatic Acute 3 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 2 Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3 Aspiration hazard Category 1 Asp. Tox. 1 Flammable liquids Category 3 Flam. Liq. 3 Flammable liquids Category 4 Flam. Liq. 4

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Specific target organ toxicity (single exposure) Category 3

Skin corrosion/irritation Category 2

Skin Irrit. 2

STOT SE 3

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

H226	Flammable liquid and vapor					
H227	Combustible liquid					
H304	May be fatal if swallowed and enters airways					
H315	Causes skin irritation					
H336	May cause drowsiness or dizziness					
H401	Toxic to aquatic life					
H402	Harmful to aquatic life					
H411	Toxic to aquatic life with long lasting effects					
H412	Harmful to aquatic life with long lasting effects					

NFPA Health Hazard

: 1 - Materials that, under emergency conditions, can cause

significant irritation.

NFPA Fire Hazard

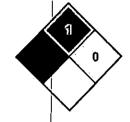
: 1 - Materials that must be preheated before ignition can

occur.

NFPA Reactivity Hazard

0 - Material that in themselves are normally stable, even

under fire conditions.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US, Mex)

SAFETY DATA SHEET

Issue Date 01-Jul-2021

Revision Date 01-Jul-2021

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name

SPLENDIDE PREMIUM LAUNDRY POWDER

Other means of identification

Product Code

WS 1022

Recommended use of the chemical and restrictions on use

Recommended Use

Laundry Detergent.

Uses advised against

Use only as stated on label.

Details of the supplier of the safety data sheet

Supplier

Westland Sales 15650 SE 102nd Ave Clackamas Oregon, 97015 Phone: (503) 655-2563

Emergency telephone number

Emergency Telephone

(503) 655-2563

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5	
Acute toxicity - Dermal	Not classified	
Serious eye damage/eye irritation	Category 1	

Label elements

Emergency Overview

Danger

Hazard statements
May be harmful if swallowed
Causes serious eye damage



Appearance Dry, free flowing granules

Physical state Powder

Odor Citrus

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell

Specific Treatment (See Section 4 on the SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

Inhalation

Ingestion

Symptoms

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Carbonate	497-19-8	30-60	*
Sodium Sulfate	7757-82-6	10-30	*
Sodium Percarbonate	15630-89-4	10-30	*
Sodium Silicate	1344-09-8	5-10	*
Alcohol Ethoxylate	68439-46-3	1-5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

	4. FIRST AID MEASURES
First aid measures	
General advice	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician.
Skin Contact	Consult a physician if necessary. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eve contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper evelids.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Keep eye wide open while rinsing If symptoms persist, call a physician

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician,

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with

water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

No Information available.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No Information available.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use

personal protective equipment as required.

Environmental precautions

Personal precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers,

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers.

Incompatible materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls

Showers, Eyewash stations & Ventilation systems.

Individual protection measures, such as personal protective equipment

Eyelface protection

Tight sealing safety goggles. Face protection shield.

Skin and body protection

Wear chemical resistant gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Appearance

Odor

Powder

Dry, free flowing granules

Odor threshold

No Information available

Property рΗ

<u>Values</u> 10.0 - 11.0

Melting point/freezing point Boiling point / boiling range

Flash point

Evaporation rate Flammability (solid, gas)

Flammability Limits in Air Upper flammability limit:

Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature**

Kinematic viscosity

Viscosity

Explosive properties Oxidizing properties

Citrus

Remarks • Method

1% solution

No Information available

No Information available None

No Information available No Information available

No Information available No Information available No Information available No Information available No Information available

No Information available No Information available No Information available No Information available

No Information available No Information available No Information available

No Information available No Information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-
Orange Terpenes 5989-27-5	= 4400 mg/kg (Rat) = 5200 mg/kg (Rat) = 5300 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No Information available.

Germ cell mutagenicity

No Information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC (International Agency for Research on Cancer)

Group 3 -Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Aspiration hazard

Reproductive toxicity STOT - single exposure STOT - repeated exposure Chronic toxicity No Information available. No Information available. No Information available.

Avoid repeated exposure.

No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document...

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea	
Sodium Carbonate	-	310 - 1220; 96 h Pimephales	265: 48 h Daphnia magna mg/L	

				- 		
407.40.0		promelas mg/L LC50 static		EC50		
497-19-8		300: 96 h Lepomis macrochirus mg/L LC50 static	_			
Sodium Sulfate 7757-82-6	-	13500 - 14500: 96 h Pimephales promelas mg/L LC50 3040 - 4380: 96 h Lepomis macrochirus mg/L LC50 static 13500: 96 h Lepomis macrochirus mg/L LC50 6800: 96 h Pimephales promelas mg/L LC50 static	2564: 48	h Daphnia magna mg/L EC50		
Sodium Percarbonate 15630-89-4	-	70.7: 96 h Pimephales promelas mg/L LC50 static	4.9: 48 h l	Daphnia pulex mg/L EC		
Sodium Silicate 1344-09-8	-	301 - 478: 96 h Lepomis macrochirus mg/L LC50 3185: 96 h Brachydanio rerio mg/L LC50 semi-static		-		
Orange Terpenes 5989-27-5	-	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		-		
Persistence and degradability No Information available.						
<u>Bioaccumulation</u> No Information available.						
Other adverse effects	No Information available					
	13. DISPOSAL CONSIDERATIONS					
Waste treatment methods						
Disposal of wastes	Disposal should be in accregulations.	and local laws and				
Contaminated packaging	Do not reuse container.					
	14. TRANSPOR	T INFORMATION				
рот_	Not regulated					
	15. REGULATO	RY INFORMATION				
International Inventories TSCA DSL/NDSL EINECS/ELINCS AICS	Complies Complies Does not comply Complies					
Legend: TSCA - United States Toxic Substance DSL/NDSL - Canadian Domestic Subs EINECS/ELINCS - European Inventory AICS - Australian Inventory of Chemica	tances List/Non-Domestic Subs of Existing Chemical Substanc	tances List	l Substanc	es		
US Federal Regulations						
	Pag	e 6/7				

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

U.S. State Right-to-Know Regulations

- 1	Chemical Name	New Jersey	Massachusetts	Pennsylvania	
	Orange Terpenes	X	-	-	
	5989-27-5			<u>l</u>	

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection N/A

Issue Date 01-Jul-2021 Revision Date 01-Jul-2021 Revision Note

No Information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

Version 1.0 Revision Date: 05/11/2016 Print Date: 05/12/2016

SECTION 1. IDENTIFICATION

Product name

: Shell Rotella T4 Triple Protection 15W-40

Product code

001F8880

Manufacturer or supplier's details

Manufacturer/Supplier

: Shell Oil Products US

PO Box 4427

Houston TX 77210-4427

USA

SDS Request

Customer Service

(+1) 877-276-7285

•

Emergency telephone number

Spill Information Health Information : 877-504-9351 : 877-242-7400

Recommended use of the chemical and restrictions on use

Recommended use

: Engine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Hazard pictograms

: No Hazard Symbol required

Signal word

: No signal word

Hazard statements

PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under G남S criteria.

Precautionary statements

: Prevention:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (%)
Alkaryl amine		36878-20-3	1 - 3
Calcium sulphonate		70024-69-0	0.1 - 0.99
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

General advice

: Not expected to be a health hazard when used under normal

conditions.

If inhaled

: No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

In case of skin contact

: Remove contaminated clothing. Flush exposed area with wa-

ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

In case of eye contact

: Flush eye with copious quantities of water.

If persistent irritation occurs, obtain medical attention.

If swallowed

: In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Most important symptoms and effects, both acute and delayed

: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Protection of first-aider's

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the

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		incident, injury and surroundings.
Immediate medical attention special treatment	n, :	Treat symptomatically.
SECTION 5. FIRE-FIGHTING	TEASU	JRES
Suitable extinguishing me	ia :	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fir fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing met ods	n- :	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipm for firefighters	ent :	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
SECTION 6. ACCIDENTAL R	LEAS	E MEASURES
Personal precautions, pro tive equipment and emer- gency procedures	ec- :	Avoid contact with skin and eyes.
Environmental precaution	3 :	Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials fo containment and cleaning		Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or othe suitable material and dispose of properly.

Additional advice 3/14

: For guidance on selection of personal protective equipment

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

	<u> </u>			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		(Mist)	5 mg/m3	OSHA_TRA NS
		TWA (Mist)	5 mg/m3	OSHA Z-1

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ersion 1.0	Revision Dat	e: 05/11/2016	Print_D	ate: 05/12/201
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
Biological occupational	exposure limits			
No biological limit allocate Monitoring Methods	ed.			
Monitoring of the concent workplace may be require trols. For some substance Validated exposure measures analysed by an accept some substance of sources of the supplier. Further National Institute of Occupational Safety and http://www.osha.gov/Health and Safety Execupttp://www.hse.gov.uk/Institut für Arbeitsschutzhttp://www.dguv.de/inhaltut.linstitut National de Recomparise substance of the sub	ed to confirm comples biological monitosurement methods sedited laboratory. ecommended exponational methods mapational Safety and Health Administratitive (HSE), UK: MeDeutschen Gesetzlit/index.jsp	iance with an OEL pring may also be a should be applied be sure measurement hay be available. I Health (NIOSH), to (OSHA), USA: Sthods for the Determinant of the Unfallversicher Unfallversicher	and adequacy of e ppropriate. by a competent per methods are given JSA: Manual of An Sampling and Anal mination of Hazard erung (IFA), Germ	exposure con- son and sam- n below or con alytical Method ytical Methods lous Substance
Engineering measures		of protection and t	-	
	controls b Appropria	ending upon potenti ased on a risk asse te measures includ ventilation to contr	essment of local ci le:	rcumstances.
		aterial is heated, sp otential for airborne		
	Define pro controls. Educate a measures product.	nformation: ocedures for safe h and train workers in a relevant to normal	the hazards and o	control ed with this
	equipmer equipmer	opropriate selection at used to control ea at, local exhaust ve avn system prior to e	kposure, e.g. persontilation.	onal protective
	subseque	ain downs in sealed		1
	washing l	oserve good persor nands after handlin and/or smoking. R	g the material and	before eating, clothing and

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conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases

and vapours [Type A/Type P boiling point >65°C (149°F)].

Hand protection Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Eye protection

If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

Skin and body protection

: Skin protection is not ordinarily required beyond standard work clothes.

It is good practice to wear chemical resistant gloves.

Protective measures

: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Environmental exposure controls

General advice

: Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before

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	discharge to surface water. Local guidelines on emission lim must be observed for the discha		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: Clear amber

Odour

: Slight hydrocarbon

Odour Threshold

; Data not available

Нα

: Not applicable

pour point

Flash point

: -45 °C / -49 °FMethod: ASTM D97

Initial boiling point and boiling

: > 280 °C / 536 °Festimated value(s)

range

: 234 °C / 453 °F

Method: ASTM D92

Evaporation rate

: Data not available

Flammability (solid, gas)

: Data not available

Upper explosion limit

: Typical 10 %(V)

Lower explosion limit

: Typical 1 %(V)

Vapour pressure

: < 0.5 Pa (20 °C / 68 °F)

estimated value(s)

Relative vapour density

: > 1estimated value(s)

Relative density

: 0.878 (15 °C / 59 °F)

Density

: 878 kg/m3 (15.0 °C / 59.0 °F)

Method: ASTM D4052

Solubility(ies)

Water solubility

: negligible

Solubility in other solvents

: Data not available

Partition coefficient: n-

octanol/water

: Pow: > 6(based on information on similar products)

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Auto-ignition temperature

320 °C / 608 °F

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Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 14.9 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to b	pe a static accumulator.
Decomposition temperature	: Data not available	
SECTION 10. STABILITY AND R	EACTIVITY	
Reactivity	: The product does not pose any f addition to those listed in the following the second	
Chemical stability	: Stable.	
Possibility of hazardous reactions	- : Reacts with strong oxidising age	nts.
Conditions to avoid	: Extremes of temperature and dir	rect sunlight.
Incompatible materials	: Strong oxidising agents.	
Hazardous decomposition products	 Hazardous decomposition produ during normal storage. 	icts are not expected to form
SECTION 11. TOXICOLOGICAL	INFORMATION	
Basis for assessment	 Information given is based on date the toxicology of similar products the data presented is representate whole, rather than for individual c 	.Unless indicated otherwise, tive of the product as a
Information on likely routes Skin and eye contact are the accidental ingestion.	s of exposure primary routes of exposure although e	xposure may occur following
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low t	toxicity:
Acute inhalation toxicity	: Remarks: Not considered to be a normal conditions of use.	nn inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg]

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Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

Calcium sulphonate:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

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STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposa., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment

: Ecotoxicological data have not been determined specifically

for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of

product required to prepare aqueous test extract).

Ecotoxicity

Product:

Toxicity to fish (Acute toxici-

ty)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Acute

toxicity)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae (Acute tox-

icity)

LIELILOU > 100 Ingh

Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

: Remarks: Data not available

Toxicity to daphnia and other

aquatic invertebrates (Chron-

: Remarks: Data not available

ic toxicity)

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Contaminated packaging	tional requirements and must be of Dispose in accordance with prevator a recognized collector or contrathe collector or contractor should Disposal should be in accordance national, and local laws and regul	complied with. alling regulations, preferably actor. The competence of be established beforehand. with applicable regional,
SECTION 14. TRANSPORT IN	FORMATION	
National Regulations		
US Department of Transp	ortation Classification (49 CFR Parts	171-180)
Not regulated as a dangero		
nternational Regulation		
IATA-DGR Not regulated as a dangero	ous good	
IMDG-Code Not regulated as a dangero	•	
Transport in bulk according to	Annex II of MARPOL 73/78 and the I	3C Code
Pollution category Ship type Product name Special precautions	: Not applicable: Not applicable: Not applicable: Not applicable: Not applicable	
Special precautions for user	.,	
Remarks	 Special Precautions: Refer to Ch for special precautions which a u needs to comply with in connection 	ser needs to be aware of or
Additional Information	: MARPOL Annex 1 rules apply fo	r bulk shipments by sea.
SECTION 15. REGULATORY I	NFORMATION	
California Prop 65	 This product does not contain an of California to cause cancer, bir productive harm. 	
The components of this p	product are reported in the following in	ſ
TSCA	: All components listed.	
DSL	: All components listed.	
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IC50 = Inhibitory Concentration fifty
IL50 = Inhibitory Level fifty
IMDG = International Maritime Dangerous Goods
INV = Chinese Chemicals Inventory
IP346 = Institute of Petroleum test method N° 346 for the
determination of polycyclic aromatics DMSO-extractables
KECI = Korea Existing Chemicals Inventory
LC50 = Lethal Concentration fifty
LD50 = Lethal Dose fifty per cent.
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading
LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of 80001002

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Pollution From Ships
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level
OE_HPV = Occupational Exposure - High Production Volume
PBT = Persistent, Bioaccumulative and Toxic

PICCS = Philippine Inventory of Chemicals and Chemical Substances

PNEC = Predicted No Effect Concentration

REACH = Registration Evaluation And Authorisation Of

Chemicals

RID = Regulations Relating to International Carriage of Dan-

gerous Goods by Rail

SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

vPvB = very Persistent and very Bioaccumulative

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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MATERIAL SAFETY DATA SHEET CONCROBIUM MOLD STAIN ERASER

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Mold Stain Eraser

PRODUCT USE:

Cleans and removes stains

MANUFACTURER;

Siamons International

SUPPLIER

Siamons International

ADDRESS:

48 Galaxy Blvd

ADDRESS:

48 Galaxy Blvd

Toronto.

Ontario, Canada, M9W 6C8

Toronto,

Ontario, Canada. M9W 1A4.

EMERGENCY:

416 213 0219

EMERGENCY:

416 213 0219

Or call poison control centre listed in

white pages.

SECTION II: INGREDIENT INFORMATION

Ingredients	CAS#	Wt%	OSHA-TWA	ACGIH-TWA	LD ₅₀
Sodium bicarbonate	144-55-8	1-5	10 mg/m3 dust resp	10 mg/m3 dust resp	3360 mg/kg (oral/rat)
Sodium Percarbonate	15630-89-4	60-100	10 mg/m3 dust resp	10 mg/m3 dust resp	2400 mg/kg (oral/rat)
tetra acetyl ethylene diamine	10543-57-4	15-35	10 mg/m3 dust resp	10 mg/m3 dust resp	2400 mg/kg (oral/rat)

SECTION III: HAZARDOUS IDENTIFICATION

Inhalation:

Remove the subject from dusty environment.

Eyes:

Consult a physician in case of respiratory symptoms. Flush eyes as soon as possible with running water for 15 minutes, while keep in

the eyelids open. In case of difficulty opening lids, administer analgesic eye-

wash (oxybuprocaine). Consult an ophthalmologist in all cases.

Skin:

Remove contaminated shoes, socks and clothing; wash the affected skin with running water. Consult a physician in case of persistent pain or redness.

Ingestion:

Consult a physician immediately in all cases.

If the subject is unconscious:

If the subject is completely conscious: Rinse and administer fresh water. Do not induce vomiting. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Loosen collar and tight clothing; lay the victim on his/her left side.

Keep warm (blanket).

Chronic Effects

Carcinogenicity:

No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHIMIS/OSHA

criteria.

Teratogenicity, Mutagenicity,

Reproductive Effects:

The ingredients in this product were found not to be mutagenic when tested by the

Ames Assay, (OECD Guidelines for chemical testing, sec.471)

SECTION IV: FIRST AID MEASURES

Eye Contact:

Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation

persists, repeat flushing and obtain medical attention immediately.

Skin Contact:

Flush with water. Seek medical attention if irritation persists. Remove contaminated clothing and

launder before reuse.

Inhalation:

Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention

if symptoms persist.

Ingestion:

DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek

medical attention. Do not give anything to victim if unconscious or convulsing.

MATERIAL SAFETY DATA SHEET CONCROBIUM MOLD STAIN ERASER

SECTION V: FIRE FIGHTING MEASURES

Flammability:

Non flammable.

Flash Point deg (C,TCC):

Not Applicable

Means of Extinction:

Special Fire Hazards:

As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam Fire fighters should wear self contained breathing apparatus as for surrounding fire. Oxygen released on exothermic decomposition may support combustion in case of surrounding fire.

Autoignition Not applicable.

temperature:

Not applicable

Flame propagation or burning rate of solid:

Sensitivity to static discharge:

Not applicable

Unusual Fire and

None expected. As per surrounding fire.

Explosion Hazards. Hazardous

decomposition products:

Oxides of carbon, oxides of nitrogen,

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures:

Before attempting clean up, refer to the hazard date provided above. Small spills may be swept up and placed in impervious bag and disposed of in regular garbage. For large spills sweep up and place in container with lid and dispose of in accordance to local, State or Provincial and Federal regulations.

SECTION VII: HANDLING AND STORAGE

Storage Requirements:

KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts.

Storage temperature C Ambient to 35 C Transport temperature C Ambient to 35 C

Keep container closed. Handle and open container with care. Store in a well ventilated place

away from incompatible materials. Do not store near open flame.

Do not reuse empty containers.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves:

Impervious gloves are recommended

Eye Protection: Respiratory Protection: Splash goggles are recommended if eye contact is possible.

Other Protective

Not normally required if good ventilation is maintained

Equipment: **Engineering Controls:** As required by employer code. Eye bath, safety shower, protective clothing.

General ventilation normally required

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C)	100	Bulk Density	0,9-1,0 gr/cc	Evaporation Rate (water=1):	Not applicable
% Volatile (Wt%):	Not established	Solubility in water:	Complete	pH (as supplied):	Not applicable
Physical State:	powder	Viscosity:	Not applicable		
Appearance / Odour:	White free flow odour	wing powder typical		_	

MATERIAL SAFETY DATA SHEET CONCROBIUM MOLD STAIN ERASER

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability:

Stable

Incompatible Materials:

Strong reducing agents, strong acids.

Hazardous Decomposition Products:

Oxygen released on exothermic decomposition may support combustion in

case of surrounding fire.

SECTION XI: TOXICOLOGICAL INFORMATION

See Section II for LD 50 for individual components.

SECTION XII: ECOLOGICAL INFORMATION

Sodium bicarbonate:

96-hour LC50 = 265 - 565 mg/L (daphnia

magnia) (low toxicity)

96-hour LC50 = 300 - 320 mg/L (bluegill sunfish) (low toxicity)

Sodium Percarbonate:

Fish, Pimephales promelas; LC50, 70.7 mg/L.

Fish, Pimephales promelas; NOEC, 96 hours, 1 mg/L.

Crustaceans, Daphnia pulex; EC50, 4.9 mg/L.

Crustaceans, Daphnia pulex; NOEC, 48 hours, 1 mg/L.

Tetraacetylethylenediamine is classified as readily biodegradable.

C.O.D. value 940 Oz/g (dichromate method).

Full formulation would be expected to have the following:

No bioaccumulation.

Abiotic degradation.

Low toxicity of degradation products.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

Ground Canada: (1 KG and småller)

Classified as Limited Quantity.

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations).

Ground USA: (1 KG and smaller)

Classified as Limited Quantity. Refer to USA CFR 49 Regulations.

Meets ORM-D label requirement

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Class:

Class D Division 2B ,Class C Oxidizing material.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard

(CFR29.1920.1200) and Canadian WHMIS regulations

None of these ingredients are listed

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL

National Regulations (US)

TSCA Inventory 8(b): Yes.

SARA Title III Sec. 302/303 Extremely Hazardous Substances (40 CFR 355): No.

SARA Title III Sec. 311/312 (40 CFR 370):

Hazard Category Yes, Fire Hazard.

Threshold planning quantity - 10,000 lbs.

SARA Title III Sec, 313 Toxic Chemical Emissions Reporting (40 CFR 372): No.

MATERIAL SAFETY DATA SHEET CONCROBIUM MOLD STAIN ERASER

CERCLA Hazardous Substance (40 CFR Part 302)

Listed: No.

Unlisted Substance: Yes, Reportable Quantity 100 lbs.

Characteristic: Ignitability (D001).

	SECTION XVI: OTHER INFORMATION				
Date: 29 January 2012	Prepared By:	Technical Services Group	Telephone:	416 213 0219	

Disclaimer:

Information for this material safety data sheet was obtained from sources considered tehnically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).



Revision Date 03/07/2024

Print Date 03/08/2024

SECTION 1. IDENTIFICATION

Product name

Sikaflex®-221

Company name

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone

(201) 933-8800

Telefax

(201) 804-1076

E-mail address

ehs@sika-corp.com

Emergency telephone

CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

use

Fór further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization

Category 1

Skin sensitization

Category 1

Carcinogenicity (Inhalation)

Category 1A

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2

GHS label elements

Hazard pictograms

Signal Word

Danger

Hazard Statements

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

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H350 May cause cancer by inhalation.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapors.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
xylene	1330-20-7	Flam. Liq. 3; H226	>= 1 - < 5



>= 0.1 - < 1

>= 0.1 - < 1

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Revision Date 03/07/2024 Print Date 03/08/2024 Acute Tox. 4: H332 Acute Tox. 4: H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 4,4'-methylenediphenyl diisocyanate | 101-68-8 Acute Tox. 4; H332 >+ 0.1 - < 1 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373 ethylbenzene 100-41-4 Flam. Liq. 2; H225

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

Quartz (SiO2) >5µm

General advice	:	Move out of
----------------	---	-------------

dangerous area.

Consult a physician.

14808-60-7

Show this material safety data sheet to the doctor in attend-

Acute Tox. 4; H332 Carc. 2; H351 **STOT RE 2; H373** Asp. Tox. 1; H304 Eye Irrit. 2A; H319

Carc. 1A; H350

STOT RE 1; H372 **STOT SE 3; H335**

ance.

If inhaled Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

: Asthmatic appearance

Allergic reactions



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delayed		sensitizing effects May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing ties if inhaled. May cause cancer by inhalation. May cause damage to organs through prolonged or rexposure if inhaled.	difficul-
Notes to physician	:	Treat symptomatically.	
SECTION 5. FIRE-FIGHTING ME	ASI	JRES	<u> </u>
Suitable extinguishing media	:	Use extinguishing measures that are appropriate to le cumstances and the surrounding environment.	cal cir-
Further information	:	Collect contaminated fire extinguishing water separat must not be discharged into drains. Fire residues and contaminated fire extinguishing was be disposed of in accordance with local regulations.	
Special protective equipment for fire-fighters	t :	In the event of fire, wear self-contained breathing app	aratus.
SECTION 6. ACCIDENTAL RELI	EASI	E MEASURES	
Personal precautions, protective equipment and emergency procedures	- :	Use personal protective equipment. Deny access to unprotected persons.	
Environmental precautions	:	Do not flush into surface water or sanitary sewer syst Local authorities should be advised if significant spilla cannot be contained.	em. ges
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silicacid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.	a gel,
SECTION 7. HANDLING AND ST	ORA	AGE	<u> </u>
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Advice on safe handling	:	Avoid exceeding the given occupational exposure limit section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems of ma, allergies, chronic or recurrent respiratory disease not be employed in any process in which this mixture	or asth- should



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used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	20 ppm	A'CGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
4,4'-methylenediphenyl diiso- cyanate	101-68-8	С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA PO .
		TWA	0.005 ppm	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
<u> </u>		TWA	100 ppm 435 mg/m3	OSHA PO
		STEL	125 ppm 545 mg/m3	OSHA P0
		TWA	20 ppm	ACGIH
Quartz (SiO2) >5μm	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
<u> </u>		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respir- able dust	0.1 mg/m3	OSHA P0

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fraction)	I	1
TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
PEL (respir- able)	0.05 mg/m3	OSHA CARC
TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0
TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3	ACGIH
TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection

Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the spe-

cific work-place.



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Hygiene measures

: Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

paste

Color

various

Odor

aromatic

Odor Threshold

No data available

рН

Not applicable

Melting point/range / Freezing :

No data available

Boiling point/boiling range

No data available

Flash point

Not applicable

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure

0.01 hpa

Relative vapor density

: No data available

Density

ca. 1.28 g/cm3 (73 °F / 23 °C)

Solubility(ies)

Water solubility

insoluble

Solubility in other solvents :

No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

: No data available

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Decomposition temperature

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties

: No data available

Oxidizing properties

No data available

Volatile organic compounds

(VOC) content

: 25 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

: The product is chemically stable.

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions.

Conditions to avoid

: No data available

Incompatible materials

: No data available

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

xylene:

Acute oral toxicity

: LD50 Oral (Rat): 3,523 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity

LD50 Oral (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity

: LC50: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

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ethylbenzene:

Acute oral toxicity

: LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity

: LD50 Dermal (Rabbit): 5,510 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

May cause cancer by inhalation.

IARC

Group 1: Carcinogenic to humans

Quartz (SiO2)

14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

Titanium dioxide (> 10 µm) Group 2B: Possibly carcinogenic to humans

13463-67-7

Carbon black

1333-86-4

Group 2B: Possibly carcinogenic to humans

ethylbenzene

100-41-4

OSHA

OSHA specifically regulated carcinogen

Quartz (SiO2)

14808-60-7

(crystalline silica)

NTP

Known to be human carcinogen

Quartz (SiO2)

(Silica, Crystalline (Respirable Size))

14808-60-7

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks

: Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions. Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causa-

tive link between carbon black exposure and cancer risk in

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humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESSMENT: Applying the guidelines of self-classification under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase the risk to carcinogenicity.

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been charac-



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terized as a potential carcinogen by either NTP or OSHA.

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only. including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

xvlene:

Toxicity to fish (Chronic tox-

icity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l

Exposure time: 56 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia): 1.17 mg/l

Exposure time: 7 d

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA

Inventory exemption.

The following substance(s) is/are subject to a Significant New Use Rule:

m-tolylidene diisocyanate

26471-62-5

See 40 CFR § 721.10789; Proposed

Rule

No substances are subject to TSCA 12(b) export notification requirements.

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
xylene	1330-20-7	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313

The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

xylene

1330-20-7

>= 1 - < 5 %

ethylbenzene

100-41-4

>= 0.1 \displays < 1 \%

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61): xylene 1330-20-7 >= 1 - < 5 %

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California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer, and 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA, ACGIH Threshold Limit Values (TLV)

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average
OSHA CARC / PEL : Permissible exposure limit (PEL)
OSHA P0 / TWA : 8-hour time weighted average
OSHA P0 / STEL : Short-term exposure limit

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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Safety Data Sheet according to the OSHA Hazard Communication Standard



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US / Z8

Revision Date 10/31/2023

Print Date 10/31/2023

SECTION 1. IDENTIFICATION

Product name

Sikaflex®-252

Company name

Sika Corporation

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CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

: For t

For further information, refer to product data sheet.

use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization

Category 1

Skin sensitization

Category 1

Specific target organ toxicity

- repeated exposure (Inhala-

Category 2

tion)

GHS label elements

Hazard pictograms



Signal Word

Danger

Hazard Statements

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H373 May cause damage to organs through prolonged or re-

peated exposure if inhaled.

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Precautionary Statements

Prevention:

P260 Do not breathe mist or vapors.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves. P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
xylene	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>=1-<5
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Eye Irrit. 2A; H319	>= 0.1 - < 1

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4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>=	0.1 - < 1
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	Not Assigned	Skin Sens. 1A; H317	>=	0.1 - < 1
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	Acute Tox. 1; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	>=	0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled

Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact

: Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

sensitizing effects Asthmatic appearance Allergic reactions

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Revision Date 10/31/2023

Print Date 10/31/2023

Notes to physician

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Deny access to unprotected persons.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal,

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated

place.

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Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
	-	TWA	20 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA PO
		STEL	125 ppm 545 mg/m3	OSHA PO
-		TWA	20 ppm	ACGIH
4,4'-methylenediphenyl diiso- cyanate	101-68-8	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA PO
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	TWA	0.005 ppm	OSHA PO
		STEL	0.02 ppm	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommend-

ed or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

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(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance paste

Color various

Odor characteristic

Odor Threshold No data available

рΗ Not applicable

Melting point/range / Freezing :

Boiling point/boiling range No data available

Flash point Not applicable

Evaporation rate No data available

Flammability (solid, gas) No data available

Upper explosion limit / Upper

flammability limit

No data available

No data available

Lower explosion limit / Lower : No data available

flammability limit

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Vapor pressure

: 0.01 hpa

Relative vapor density

No data available

Density

ca. 1.2 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility

insoluble

Solubility in other solvents :

No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

No data available

Decomposition temperature

No data available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

: > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties

: No data available

Oxidizing properties

No data available

50 g/l

Volatile organic compounds

:

(VOC) content

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No dangerous reaction known under conditions of normal use.

Chemical stability

: The product is chemically stable.

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions.

Conditions to avoid

No data available

Incompatible materials

: No data available

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

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according to OSHA 1910.1200 Hazard Communication Standard

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Components:

xylene:

Acute oral toxicity

: LD50 Oral (Rat): 3,523 mg/kg

ethylbenzene:

Acute oral toxicity

: LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity

: LD50 Dermal (Rabbit): 5,510 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity

: LD50 Oral (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity

: LC50: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Acute oral toxicity

: LD50 Oral (Rat): 4,814 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 0.031 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity

: LD50 Dermal (Rat): > 7,000 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

IARC

Group 2B: Possibly carcinogenic to humans

Titanium dioxide (> 10 µm)

Group 2B: Possibly carcinogenic to humans

13463-67-7

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Carbon black

1333-86-4

Group 2B: Possibly carcinogenic to humans

ethylbenzene

100-41-4

OSHA

Not applicable

NTP

Not applicable

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks

: Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions. Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk

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but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESSMENT: Applying the guidelines of self-classification under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase

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the risk to carcinogenicity.

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

xylene:

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l

Exposure time: 56 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia): 1.17 mg/l

Exposure time: 7 d

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:

Toxicity to fish

LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other : aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Persistence and degradability

No data available

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Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed as ac-

tive on the TSCA Inventory or are in compliance with a TSCA

Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
xylene	1330-20-7	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313

The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

xylene

1330-20-7

>= 1 - < 5 %

ethylbenzene

100-41-4

>= 0.1 - < 1 1/%

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61): xylene 1330-20-7 >= 1 - < 5 %

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer, and 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH

: USA. ACGIH Threshold Limit Values (TLV)

OSHA PO

USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1

: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA OSHA P0 / TWA OSHA P0 / STEL : 8-hour, time-weighted average: 8-hour time weighted average

: Short-term exposure limit

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA

8-hour time weighted average

OSHA Z-1 / C

: Ceilina

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor

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does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

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100000004585 US / Z8

Safety Data Sheet

Sikaflex®-715

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SECTION 1. IDENTIFICATION

Product name

Sikaflex®-715

Company name

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone

(201) 933-8800

Telefax

(201) 804-1076

E-mail address

ehs@sika-corp.com

Emergency telephone

CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1

Carcinogenicity (Inhalation)

Category 1A

Reproductive toxicity

Category 1B

GHS label elements

Hazard pictograms





Signal Word

: Danger

Hazard Statements

H317 May cause an allergic skin reaction.

H350 May cause cancer by inhalation.

H360 May damage fertility or the unborn child.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

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P261 Avoid breathing mist or vapors.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
dibutylbis(pentane-2,4-dionato- O,O')tin	22673-19-4	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Repr. 1B; H360 STOT SE 1; H370 STOT RE 1; H372	>= 0.1 - < 1
1,2,3,4-Butanetetracarboxylic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol and 3-hydroxy-2,2-dimethylpropanal, 1,2,2,6,	101357-36-2	Acute Tox. 4; H302 Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 0.1 - < 1
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350 STOT RE 1; H372 STOT SE 3; H335	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

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SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled

Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact

Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms

and effects, both acute and

delayed

sensitizing effects

toxic effects for reproduction

Allergic reactions

May cause an allergic skin reaction. May cause cancer by inhalation.

May damage fertility or the unborn child.

Notes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Deny access to unprotected persons.

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Environmental precautions

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Pregnant women or women of child-bearing age should not be

exposed to this product.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Quartz (SiO2) >5µm	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respir-	250 mppcf /	OSHA Z-3

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1	able)] %SiO2+5	
	TWA (respirable dust fraction)	0.1 mg/m3	OSHA PO
	TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH
	PEL (respir- able)	0.05 mg/m3	OSHA CARC
	TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0
	TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3	ACGIH
	TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the spe-

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cific work-place.

Hygiene measures

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

paste

Color

black, white

Odor

very faint

Odor Threshold

No data available

pН

Not applicable

Melting point/range / Freezing :

No data available

Boiling point/boiling range

No data available

Flash point

Not applicable

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure

0.01 hpa

Relative vapor density

No data available

Density

1.52 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility

insoluble

Solubility in other solvents

No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

No data available

Decomposition temperature

No data available

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Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

> 20.5 mm2/s (104 °F / 40 °C)

Explosive properties

: No data available

Oxidizing properties

: No data available

Volatile organic compounds

(VOC) content

5.5 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

The product is chemically stable.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

1,2,3,4-Butanetetracarboxylic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol and 3-hydroxy-2,2-dimethylpropanal, 1,2,2,6,:

Acute oral toxicity

LD50 Oral (Rat): 1,900 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC

Group 1: Carcinogenic to humans

Quartz (SiO2)

14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

Carbon black

1333-86-4

OSHA

OSHA specifically regulated carcinogen

Quartz (SiO2)

14808-60-7

(crystalline silica)

NTP

Known to be human carcinogen

Quartz (SiO2)

14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.

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Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESSMENT: Applying the guidelines of self-classification under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a

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result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase the risk to carcinogenicity.

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information

Do not empty into drains; dispose of this material and its container in a safe way.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: Respiratory or skin sensitization

Carcinogenicity

Reproductive toxicity

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

MARNING: This product can expose you to chemicals including Carbon black, amorphous, which is known to the State of California to cause cancer, and 1,2-Benzenedicarboxylic acid, di-C9-11branched alkyl esters, C10-rich, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH

USA. ACGIH Threshold Limit Values (TLV)

OSHA CARC

OSHA Specifically Regulated Chemicals/Carcinogens

OSHA PO

USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

OSHA Z-1

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

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OSHA Z-3

its for Air Contaminants

: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA

Shour, time-weighted average

Permissible exposure limit (PEL)

SHA P0 / TWA

Shour time weighted average

Shour time weighted average

OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

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Sikaflex®-505 UV

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SECTION 1. IDENTIFICATION

Product name

Sikaflex®-505 UV

Company name

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone

(201) 933-8800

Telefax

(201) 804-1076

E-mail address

ehs@sika-corp.com

Emergency telephone

CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910,1200)

Skin sensitization

Category 1

GHS label elements

Hazard pictograms



Signal Word

Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

Prevention:

P261 Avoid breathing mist or vapors.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before



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reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
trimethoxyvinylsilane	2768-02-7	Flam. Liq. 3; H226 Skin Sens. 1B; H317	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

: Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled

: Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact

: Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact

: Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

: Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and delayed

sensitizing effects

Allergic reactions

May cause an allergic skin reaction.

Notes to physician

: Treat symptomatically.

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Suitable extinguishing media

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information

: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment : for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Deny access to unprotected persons.

Environmental precautions

Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal,

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling

: Avoid exceeding the given occupational exposure limits (see section 8).

Do not get in eyes, on skin, or on clothing.

For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and drinking should be prohibited in the application area.

Follow standard hygiene measures when handling chemical products.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated place.

Store in accordance with local regulations.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, selfcontained breathing apparatus must be used.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

paste

Color

black, gray, white

Odor

very faint

Odor Threshold

No data available

: Not applicable

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Melting point/range / Freezing :

point

Boiling point/boiling range

No data available

No data available

Flash point

: > 199.9 °F / 93.3 °C

(Method: closed cup)

Evaporation rate

: No data available

Flammability (solid, gas)

No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure

: 0.01 hpa

Relative vapor density

No data available

Density

: 1.3 - 1.7 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility

slightly soluble

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature

: No data available

Decomposition temperature

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties

: No data available

Oxidizing properties

No data available

Volatile organic compounds

: 9 g/l

(VOC) content

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No dangerous reaction known under conditions of normal use.

Chemical stability

The product is chemically stable.

Possibility of hazardous reac-

Stable under recommended storage conditions.

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tions

Conditions to avoid

: No data available

Incompatible materials

: No data available

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

trimethoxyvinylsilane:

Acute oral toxicity

: LD50 Oral (Rat): ca. 7,120 mg/kg

Acute inhalation toxicity

: LC50: ca. 16.8 mg/l Exposure time: 4 h Test atmosphere: vapor

Acute dermal toxicity

: LD50: 3,540 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

Group 2B: Possibly carcinogenic to humans

Titanium dioxide (> 10 µm)

13463-67-7

OSHA

Not applicable

NTP

Not applicable

Reproductive toxicity

Not classified based on available information.

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information

Do not empty into drains; dispose of this material and its container in a safe way.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 13. DISPOSAL CONSIDERATIONS

Dis	posal	meth	ode

Waste from residues

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: Respiratory or skin sensitization

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

MARNING: This product can expose you to chemicals including diisononylphthalate, which is known

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to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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Revision Date 03/25/2024

Print Date 03/25/2024

SECTION 1. IDENTIFICATION

Product name

APO17 SMC (formerly P-17 SMCR) Part A

Company name

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone

(201) 933-8800

Telefax

(201) 804-1076

E-mail address

ehs@sika-corp.com

Emergency telephone

CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR

1910.1200)

Flammable liquids

Category 3

Skin irritation

Category 2

Eye irritation

Category 2A

GHS label elements

Hazard pictograms



Signal Word

Warning

Hazard Statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.



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No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
Talc	14807-96-6		>= 30 - < 50
vinyltoluene	25013-15-4	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>= 10 - < 20



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ion Date 03/25/2024			Print Date 03/25
[Asp. Tox. 1; H304	1
propylene carbonate	108-32-7	Eye Irrit. 2A; H319	>= 1 - < 5
Actual concentration is with	held as a trade secret		
CTION 4. FIRST AID MEASL	RES		
General advice	: Move out of dangerou Consult a physician. Show this material sa ance.	us area. fety data sheet to the doc	tor in attend-
If inhaled	: Move to fresh air. Consult a physician a	fter significant exposure.	ı I
In case of skin contact	: Take off contaminated Wash off with soap ar If symptoms persist, o	d clothing and shoes immend plenty of water. call a physician.	ediately.
In case of eye contact	Remove contact lense Keep eye wide open v		:
If swallowed	Do not induce vomitin Do not give milk or alo	y mouth to an unconsciou	
Most important symptoms and effects, both acute and delayed	 irritant effects Excessive lachrymatic Erythema Dermatitis Causes skin irritation. Causes serious eye irritation. 		
Notes to physician	: Treat symptomatically		
TION 5. FIRE-FIGHTING ME	ASURES		-
Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		1
Unsuitable extinguishing media	: Water High volume water jet		ı
Specific hazards during fire fighting	: Do not use a solid wat fire.	er stream as it may scatte	r and spread
			•



Revision Date 03/25/2024 Further information : Use water spray to cool unopened containers.

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Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emergency procedures

Use personal protective equipment.

Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

SECTION 7. HANDLING AND STORAGE

Advice on protection against : fire and explosion

Keep away from heat/ sparks/ open flames/ hot surfaces. No

Take precautionary measures against electrostatic discharg-

Advice on safe handling

Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Keep in a well-ventilated place. Observe label precautions.



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	Store in accordance with local regulations.	
Materials to avoid	: Explosives Oxidizing agents Poisonous gases	
	Poisonous liquids	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Talc	14807-96-6	TWA (Dust)	20 Million parti- cles per cubic foot	OSHA Z-3
		TWA (respir- able dust fraction)	2 mg/m3	OSHA P0
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
vinyltoluene	25013-15-4	TWA	10 ppm	ACGIH
		TWA	100 ppm 480 mg/m3	OSHA Z-1
		TWA	100 ppm 480 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration



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	(gas/vapor/aerosol/particulates) that may arise when han- dling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.
Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec- essary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	 Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Hygiene measures	 Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	1		
Appearance		•	paste
rippediation			Dasie

Color	.	black, white
00101	í .	DIGUE, WILLE

Odor pungent

Odor Threshold No data available

рΗ Not applicable

Melting point/range / Freezing :

Boiling point/boiling range

No data available

338 °F / 170 °C

Flash point > 131 °F / 55 °C

(Method: closed cup)

Evaporation rate No data available

Flammability (solid, gas) No data available

Upper explosion limit / Upper : No data available

flammability limit



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Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure

: 2 hpa

Relative vapor density

: No data available

Density

: 1.58 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility

: insoluble

Solubility in other solvents

No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

: No data available

Decomposition temperature

No data available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

: > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties

: No data available

Oxidizing properties

No data available

Volatile organic compounds

: 288 g/l

(VOC) content

Part A + Valspar Cream Hardener BPO Part B Combined.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No dangerous reaction known under conditions of normal use.

Chemical stability

: The product is chemically stable.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions. Vapors may form explosive mixture with air.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

: No data available

Hazardous decomposition

products

: No decomposition if stored and applied as directed.



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SECTION 11. TOXICOLOGICAL INFORMATION

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

Group 2B: Possibly carcinogenic to humans

Titanium dioxide (> 10 µm)

13463-67-7

OSHA

OSHA specifically regulated carcinogen

Talc (Mg3H2(SiO3)4)

a satelline (alline)

(crystalline silica)

14807-96-6

NTP

Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health ef-



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fects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information

Do not empty into drains; dispose of this material and its container in a safe way.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations



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IATA-DGR

UN/ID No. Proper shipping name

UN 1866 Resin solution

Class

Packing group

Ш

Labels Packing instruction (cargo Flammable Liquids

Packing instruction (passen-

355

ger aircraft)

IMDG-Code

UN number

UN 1866

Proper shipping name

RESIN SOLUTION

Class

Packing group

Ш

Labels

3

EmS Code

F-E, <u>S-E</u>

Marine pollutant

no

Domestic regulation

49 CFR

UN/ID/NA number

UN 1866

Proper shipping name

Resin solution

Class

3

Packing group

Labels

FLAMMABLE LIQUID

ERG Code

127

Marine pollutant

DOT: As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated.

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA

Inventory exemption.

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

vinyltoluene

25013-15-4



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CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

WARNING: This product can expose you to chemicals including Talc, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH USA. ACGIH Threshold Limit Values (TLV) **OSHA CARC**

OSHA Specifically Regulated Chemicals/Carcinogens

OSHA PO USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA 8-hour, time-weighted average OSHA CARC / PEL Permissible exposure limit (PEL) OSHA P0 / TWA 8-hour time weighted average OSHA Z-1 / TWA 8-hour time weighted average

OSHA Z-3 / TWA 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data re-



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garding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

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100000035888 US / Z8 L. 11/1-1

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

PRODUCT NAME: EPOM COATING PRIMER

PRODUCT CODE: CSI303495

RP-CAP-Q

HMIS CODES: H F R 1

SECTION 1 :==========

MANUFACTURER IDENTIFICATION

CA ILE SYNTEC INCORPORATED

P.O. BOX 7000

CARLISLE, PA 17013

24 HOUR EMERGENCY PHONE: INITIAL (FIRST CALL) CHEMTREC: 800-424-9300

INFORMATION PHONE: (717)245-7000 FAX: (717) 245-7197

DATE PRINTED

: 2/3/2004

DATE REVISED

: FEBRUARY 2004

***** HAZARDOUS INGREDIENTS/SARA III INFORMATION

======== WEIGHT

REPORTABLE COMPONENTS

CAS NUMBER MM HG @ TEMP MIXTURE

PERCENT --

* URETHANE HYBRID POLYMER

1-METHYL-2-PYRROLIDINONE, CAS#872-50-4, 6%, NO DEL ESTABLISHED

18.52 21C/70F

6BF/20C

58

STYRENE ACRYLIC COPOLYMER

MIXTURE 17 210/70F

25

INDIVIDUAL RESIDUAL NONOMERS <.1%, MIXTURE, NO EXPOSURE LIMITS ESTABLISHED.
AQUA AMMONIA .1% MAX, CAS#1336-21-5, ACGYH TWA 25PPM,STEL 35 PPM,

OSHA TWA NONE, OSHA STEL 35 PPM. STYRENE/ACRYLIC COPOLOMYER, MIXTURE,

NO EXPOSURE LIMITS ESTABLISHED.

WATER

7732-18-5

UNK UNK

Я

. 1

NO OEL'S ESTABLISHED.

AQUASPERSELY LAMP BLACK (PIGMENT DISPERSION, AQUEOUS COLORANT) MIXTURE PROPYLENE GLYCOL, CAB#57-55-6, 5-10% NO OCCUPATIONAL EXPOSURE LIMITS ESTABL ished for this chemical. Carbon Black. Cas# 1333-86-4, 30-60%, Osha and ac GIH TLV-3.5MG/N3 TWA. SURFACTANT NJTBR NO. 56705700001-5043P TRADE SECRET

1-5%, NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED FOR THIS CHEMICAL.

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

THIS MEDS MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT.

POTENTIAL HEALTH EFFECTS

EYES:

==

CONTACT MAY RESULT IN SEVERE IRRITATION

SKINz

SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION

INGESTION:

while this material has a low degree of toxicity, ingustion of large quantities may cause TRRITATION OF THE DIGESTIVE TRACT.

PROLONGED EXPOSURE IN POORLY VENTILATED AREAS MAY BE IRRITATING TO EYES, SKIN, MUCOUS MEMBRANES, RESPIRATORY TRACT, AND MAY PRODUCE SYMPTOMS OF HEADACHES DUE TO TRACE AMOUNTS OF RESTDUAL MONOMER VAPORS.

EYES:

IMMEDIATELY FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. IF REDNESS, ITCHING, OR A BURNING SENSATION DEVELOPS SEE A PHYSICIAN.

SKIN:

WASH WITH PLENTY OF SOAP AND WATER.

INGESTION:

CONSULT A PHYSICIAN

INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

P MORE THAN 2.0 ML PER KE HAS BEEN INGESTED AND VOMITING HAS NOT OCCURRED, EMESIS SHOULD E INDUCED WITH SUPERVISION. KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMUSIS, GASTRIC LAVAGE USING A CUFFED ENDOTRARCHEAL TUBE SHOULD BE CONSIDERED.

FLAMMABLE PROPERTIES:

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

FLASH POINT: >205F/>96C SETA FLASH CLOSED CUP.

LOWER FLAMMABLE LIMITS: N/A

UPPER FLAMMABLE LIMIT: N/A

AUTO IGNITION TEMPERATURE: NOT AVAILABLE

EXTINGUISHING MEDIA:

CO2; DRY CHEMICAL, WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES:

SELF CONTAINED BREATHING APPARATUS WHEN PIGHTING FIRES IN ENCLOSED AREAS. AFTER WATER EVAPORATES, REMAINING MATERIAL WILL BURN. USE ALL PURPOSE FOAM ON FIRES. USE CO2 OR DRY CHEMICAL ON SMALL FIRES.

SMALL SPILL:

dike and absorb with inert material such as sand and remove all liquid with the use of a VACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID. THEN BEGIN TO ABSORB WITH SAND, SAW DUST OR COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS POR PROPER DISPOSAL. KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SEMERS AND OPEN BODIES OF WATER.
DECONTAMINATE ALL CLOTHING AND THE SPILL AREA MITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

HANDLING & STORAGE:

KERP FROM PREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS TICHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS. STORE OUT OF DIRECT SUNLIGHT AT TEMPERATURES BETWEEN 40 - 100F.

OTHER PRECAUTIONS:

CLOSED CONTAINERS MAY EXPLODE DUE TO PRESSURE BUILD-UP IF EXPOSED TO EXTREME HEAT. DO NOT CET IN EYES, ON SKIN OR ON CLOTHING. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MIST. KREP CONTAINER TICHTLY CLOSED WHEN NOT IN USE. EMPTY CONTAINERS, ESPECIALLY DRUMS, SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF. USE ONLY IN A WELL VENTILATED AREA. KEEP OUT OF THE REACH OF CHILDREN.

ENGINEERING CONTROLS/PERSONAL PROTECTION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE DURING MIXING AND APPLICATION OPERATIONS TO MINIMIZE EXPOSURE, USE EXPLOSION-PROOF LOCAL EXHAUST VENTILATION CAPABLE OF MAINTAINING EMISSIONS AT THE POINT OF USE BELOW THE PEL OR TLV OR OTHER EXPOSURE GUIDELINES, AS APPROPRIATE. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. EXPLOSION-PROOF MECHANICAL EXHAUST VENTILATION, WITH VOLUME AND PATTERN CAPABLE OF MAINTAINING A FRESH ATR SUPPLY, MAY BE NECESSARY IN CONVINED SPACES. REFER TO OSHA STANDARD 29 CFR 1910.94 FOR GUIDELINES. TURN OFF HEATING AND/OR AIR CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING.

RESPIRATORY PROTECTION:

WEAR A NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THE VAPOR OR MIST CONCENTRATION AT THE POINT OF USE. APPROPRIATE RESPIRATORS MAY BE A FULL FACEPIECE OR A HALF MASK AIR-PURIFYING CARTRIDGE RESPIRATOR EQUIPPED FOR ORGANIC VAPORS/MISTS, A SELF-CONTAINED DREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A SUPPLIED-AIR RESPIRATOR. REFER TO OSHA STANDARD 29 CPR 1910.334 FOR ADDITIONAL INFORMATION.

SKIN PROTECTION:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION. NOTE THAT PVA DEGRADES IN WATER.

EYE PROTECTION:

CHEMICAL COGGLES. IF SPLASHING MAY OCCUR OF DURING SPRAY OPERATIONS HEAR A FACE SHIELD. UNLESS A FULL FACE PIECE RESPIRATOR IS USED. DO NOT WEAR CONTACT LENSES AS THEY MAY CONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE FROM CONTACT WITH LIQUID AND UPRAY MIST.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES ================== -----

BOILING RANGE: 100C/212F - 212F/100C

SPECIFIC GRAVITY (H20=1): 1.0586

VAPOR DENSITY: LIGHTER THAN AIR EVAPORATION RATE: SLOWER THAN ETHE COATING V.O.C.: 0.84 lb/gl

COATING V.O.C.: 101 g/1

```
MATERIAL
                                     SAFETY
                                                   DATA
                                                              SHERT
EPDM COATING PRIMER
     MATERIAL V.O.C.: 0.37 1b/gl
                                                MATERIAL V.O.C.: 44 | q/1
      SOLUBILITY IN WATER: SOLUBLE; DILUTABLE APPEARANCE: WHITE OR COLORED AQUE
      ODOR: MILD ODOR
                        SECTION 10 STABILITY & REACTIVITY DATA
     -------------
      STABILITY:
     STABLE.
     CONDITIONS TO AVOID
     EXTREMBLY HOT OR COLD TEMPERATURES
     INCOMPATIBILITY (MATERIALS TO AVOID)
     NONE KNOWN.
     HAZARDOUS DECOMPOSITION OR BYPRODUCTS
     WILL NOT OCCUR.
     HAZARDOUS POLYMERIZATION:
     WILL NOT OCCUR
EXE:
     INCONSEQUENTIAL IRRITATION
     SKIN:
     SKIN IRRITATION- RABBIT: PRACTICALLY NON-IRRITATING DERMAN LDSO-RABBIT: >5000 mg/kg.
     INGESTION:
     ORAL LDSO-RAT: >5000 MC/KC.
     INHALATION:
     NO DATA
     SUBCHRONIC:
     HEADACHE, NAUSEA, ABDOMINAL PAIN AND IRRITATION OF THE NOSE, THROAT AND LUNGS. SKIN AND EYE
     IRRITATION.
     CHRONIC/CARCINOGENICITY:
     NOT ESTABLISHED
     TERATOLOGY:
     NO DATA
     REPRODUCTION:
     NO DATA.
     MUTAGENICITY:
     NO DATA.
ECOTOXICOLOGICAL INFORMATION:
     NO DATACHEMICAL PATE INFORMATION:
     NO DATA.
INSTRUCTIONS:
     dispose of unused product or contaminated product and materials used in cleaning up spills
     or leaks in a manner approved for this material. Consult appropriate pederal, state and
    LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES. INCINERATION IS ACCEPTABLE AND THE PREFERRED METHOD OF DISPOSAL, HOWEVER; NITROGEN OXIDE EMISSIONS
     Controls may be required to meet specifications. Chemical and biological degradation is
     POSSIBLE. EMPTY CONTAINERS WILL RETAIN PRODUCT RESIDUE AND VAPONS AND ARE SUBJECT TO
     PROPER WASTE DISPOSAL, AS ABOVE.
SHIPPING INFORMATION:
    DOT INFORMATION - 49 CFR 172.101
                                                      DOT DESCRIPTION:
     OTHER REGULATED SUBSTANCES, LIQUID, N.O.S. (CONTAINS ETHYLENE GLYCOL), 5.
 (NOT MEANT TO BE ALL INCLUSIVE-SELECTED REQULATIONS REPRESENTED)
     US REGULATIONS:
    STATUS OF SUBSTANCES LISTS:
    THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CEILING LEVELS (WEIGHT &) TO BE USED FOR CALCULATIONS FOR REGULATIONS.
    A REPORTABLE QUANTITY IS A QUANTITY OF A HAZARDOUS SUBSTANCE THAT
    TRIGGERS REPORTING REQUIREMENTS UNDER THE COMPREHENSIVE ENVIRONEMENAL RESPONSE
    COMPENSATION AND LIABILITY ACT (CERCLA) IF A SPILL OF A SUBSTANCE EXCEEDS IT'S
```

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

APPENDIX D. THE RELEASE MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT (800) 124-8803, THE STATE EMERGENCY RESPONSE COMMISSION (SERC), AND COMMINITY EMERGENCY COORDIANTORS LIKELY TO BE APPECTED.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE 111
REQUIRES EMERGENCY PLANNING BASED ON THE THRESHOLD QUANTITIES (TPQ'S)
AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355
APPENDIX AGE EXTREMELY HAZARDOUS SUBSTANCES. THE EMERGENCY PLANNING AND RELEASE
REQUIREMENTS OF 40 CFR 355 APPLY TO ANY FACILITY AT WHICH THERE IS PRESENT AN
AMOUNT OF ANY EXTREMELY HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF IT'STHRESHOLD PLANNING QUATITY.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN

EPCRA 40 CFR 372 (SECTION 31) REQUIRES EPA AND THE STATES TO ANNUALLY COLLECT DATA ON RELEASES OF CERTAIN TOXIC MATERIALS FROM INDUSTRIAL FACILITIES, AND MAKE THE DATA AVAILABLE TO THE PUBLIC IN THE TOXICS RELEASE INVENTORY(TRI), THIS INFORMATION MUST BE INCLUDED IN ALL MEDS'S THAT ARE COPIED AND DISTRIBUTED OR OR COMPILED FOR THIS MATERIAL.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: SEE SECTION II

THE COMPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY. THIS MIXTURE HAS NOT BEEN TESTED AS A WHOLE TO DETERMINE WHETHER THE MIXTURE IS A HEALTH HAZARD. THE MIXTURE SHALL BE ASSUMED TO PRESENT THE SAME HEALTH HAZARDS AS DO THE COMPONENTS WHICH COMPRISE ONE PERCENT (BY WEIGHT OR VOLUME) OR GREATER OF THE MIXTURE, EXCEPT THAT THE MIXTURE SHALL BE ASSUMED TO PRESENT A CARCINOGENIC HAZARD IF IT HAS A COMPONENT IN CONCENTRATIONS OF 0.1 PERCENT OR GREATER WHICH IS CONSIDERED TO BE A CARCINOGEN. FOR A LIST OF HAZARDOUS INGREDIENTS:

SEE SECTION II

THE REMAINING PERCENTAGE OF UNSSECTIFIED INGREDIENTS, IF ANY, ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CPR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEFOAMERS, WETTING AGENTS, RESINS, DRYERS, ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

THIS PRODUCT IS NOT LISTED IN ANY DIVISION, CLASS, OR SUBDIVISION.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

NONE KNOWN

EINECS:

NO INFORMATION.

STATE REGULATIONS:

CALIFORNIA:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING NATER AND TOXIC ENFORCEMENT ACT OF 1986. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA

A: CAUSE CANCER:

NONE KNOWN

B: CAUSE REPRODUCTIVE HARM:

NONE KNOWN

FLORIDA:

NONE KNOWN

MICHIGAN:

иоин киоии

MINNESOTA:

NONE KNOWN

MASSACHUSETTS

NONE KNOWN

PENNYSYLVANIA:

NONE KNOWN

NEW JERSEY:

none known

NEW YORK:

IONE KNOWN

WASHINGTON:

NONE KNOWN

CODES DEFINED:

PEDPEA. Note. The DA is in nounde for chemicals that was ADDATE hearedous subsequen

EPDM COATING PRIMER

A "##" entry in the RQ column indicates that a statutory ene-pound RQ applies, but the Agency may adjust the statutory RQ in a future rulewaking.

A "**" entry in the RQ column no RQ is being assigned to the generic or broad class.

A "a" following the RQ indicates that no release reporting is required if the diameter of the piaces of the solid metal released is 100 micrometers (0.004 inches) or more. If a final RQ has not been assigned under CERCLA to any extremely hazardous chemical listed under Section 301 of SARA Title III, a statutory RQ of one pound applies for Section 304 reporting. This product lists the one-pound statutory RQ for extremely hazardous substances not listed under CERCLA.

A "+" following an entry means the chemical is listed as a hazardous sir pollutant under Section 112(b) of the Clean Air Act. A statutory RQ of 1 lb. applies until RQs are adjusted.

```
STATES:
 MA:
        Codea
 1 IARC(Int.Agency for Research on Cancer)
 2 OSHA 29 CFR 1910.1000, Bub part Z
 3 NTP
        National Toxicology Program
 4 ACCIH American Conference of Gov. Ind. Hygienists (TLV)
 5 NFPA49 HAZ CHEM
 6 NEPA325M FIRE HAZARDS
 7 CAG Carcinogon Assessment Group
 6 EPA Environmental Protection Agency posticides (40 CFR 162.30)
 9 NCI National Cancer Institutes substances
 Heatrd Designations
 *C* - Cardinogon Poses a risk of cancer in humans.
 *N* - Neurotoxin Poses a risk of neurotoxic effects in humans.
 *M* - Mutagin Popes a risk of mutagenesis in humans.
 *E* - Extraordinarily Hazardous Substances that have a low lethal
                                                                          dose (LD(50)) or
 are designated carcanogens.
 *Tl* - Teratogen Sufficient evidence of teratogenic risk in humans.
•T2 - Teratogen Limited evidence of teratogenic risk in humans.
Footnote Designations
Fl - Elemental Metals and Alloys
 M2 - Aubestos
73 - Asphalt
14 - Coal Tar Pitch Volatile
P5 - Dust Producing Materials
F6 - EPA Extremely Haz. Substances
F7 - Volatile Organic Substances (VQC's)
P8 - Cercla Hazardone Substances
F9 - Toxic Chemical Release Substances
MI:
       Codes
-- REQUIRES FURTHER ARPORTING
MN:
A Amorican Conference of Governmental Industrial Hygienists (ACGIH)
I American Industrial Hygiana Association (AIHA)
N National Institute for Oscupational Safety and Health (NIDSH)
O Occupational Safety and Health Administration (OSHA)
R International Agency for Research on Cancer (IARC)
S OSHA proposed standards.
T National Toxicology Program (NTP)
Hazard Dosignations
T: Listed as carcinogen or potential by IARC or MTP
F: Not listed as carcinogen or potential carcinogen
asphyxiant: Apphyxiant
dust: Airborne particulate exposure hazard
fume: Small solid particles formed by the condensation of vapors of
                                                                           solid materials
skin: Potential hazard from absorption through skin contact
PA: CODES IDENTIFY CHEMICALS AS:
-- (Basic Hazard)
E (ENVIROMENTAL HAZARD)
* ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD
S (SPECIAL HAZARD)
```

LE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. USERS SHOULD INSIDER THESE DATA ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM & DETERMINE THE SUITABILITY & COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE & DISPOSAL OF THESE MATERIALS & THE SAFETY & HEALTH OF EMPLOYEES & CUSTOMERS

DATA

DATE REVISED HMIS CODES: H F R P 2 0 0 I

SHEBT

: AUGUST 200

RODUCT CODE:CSI303991 RODUCT NAME: ACRYLIC COATING WHITE

SECTION I MANUFACTURER IDENTIFICATION

IDENTIFICATION

:AI LE SYNTEC INCORPORATED

O BOX 7000

ARLISLE, PA 17013

14 HOUR EMERGENCY PHONE: INITIAL (FIRST CALL) CHEMTREC: 800-424-9300

NFORMATION PHONE: (717)245-7000 FAX: (717) 245-7197

======= SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ========

REPORTABLE COMPONENTS

VAPOR PRESSURE CAS NUMBER MM HG & TEMP

WEIGHT PERCENT

CRYLIC POLYMER 17 GBF/20C MIXTURE 41

AMMONIA, CAS #7664-41-7, < 0.20% MAXIMUM, OSHA STEL-35PPM, ACGIH TWA-25PPM, STEL-35PPM. MANUFACTURER'S SUGGESTED GUIDELINGS, TWA-25PPM, STEL-35PPM.

'ALCIUM CARBONATE N/A N/A471-34-1

OSHA PEL-15MG/M3, TOTAL DUST, 5MG/M3, RESPIRABLE DUST. ACGIH TLV-10 MG/M3, TOTAL DUST CONTAINING NO ASBESTOS AND <19 FREE SILICA. IF SILICA LEVELS ABOVE 1.0% ARE PRESENT, THE TLY VALUE IS 0.1 MG OF RESPIRABLE SILICA PER CU. METER FOR BOTH OSHA PEL AND ACGIH TLV.

JATER NO OEL'S ESTABLISHED. 7732-18-5 NO DATANO DATA 21645-51-2 N/A N/A

LUMINUM TRIHYDROXIDE ALUMINA TRIHYDROKIDB; CAS#1344-28-1 64.5%BY WEIGHT. OSHA/PEL 10PPM, ACGIH /TLV 10FPM.

TANIUM DIOXIDE 13463-67-7 N/A N/A TITANIUM DIOXIDE, 86-97%, CAS#13463-67-7, ACGIH TLV-10MG/M3, TOTAL DUST TWA, OSHA PEL-15MG/M3, TOTAL DUST, 8 HR TWA, AEL(ACCEPTABLE EXPOSURE LIMIT) OF long/M3, TOTAL DUST 8 HR TWA. 5MG/M3 RESPIRABLE DUST 8 HR TWA. (AEL IS THE EXPOSURE LIMIT RECOMMENDED BY THE MANUFACTURER OF THIS CHEMICAL).

"UMINUM HYDROXIDE, CAS#21645-51-2, 1-5%, NO EXPOSURE LIMITS ESTABLISHED. 12001-2G-2 N/A N/A ATE MINERALS (SILICATE, MICA) miCA, CAS#12001-26-2, 95.0-99.0%, ACGIH TLV-20MPPCF TWA, STEL-3MG/M3, RESPIRABLE DUST. QUARTZ, CAS#14808-60-7, 0.1-5.0%, ACGIH TLV-0.1MG/M3 TWA, RESPIRABLE DUST, OSHA PEL-0.1MG/M3, RESPIRABLE DUST, (%SIO2+2) RESPIRABLE QUARTZ-SEE 29CFR-1910.1000 TABLE Z-1-A, AIR CONTAMINANTS, OSHA IDLH, 50 MICRO GRAMS/M3, 10 HOUR TWA, RESPIRABLE FREE SILICA.

· Indicates toxic chemical(s) subject to the reporting requirements of section 113 of Title III and of 40 CFR 372. Indicates carcinogenic chemical.

THIS MSDS MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT,

DODDEDEDEDESENSESSESSESSES IL HAZARDS IDENTIFICATAION CONTRACTOR DE LE CONTRACTOR DE LA CON OTENTIAL HEALTH EFFECTS

CONTACT WITH VAPOR AND/OR SPRAY MIST MAY RESULT IN IRRITATION. CONTACT WITH JOUID MAY RESULT IN SEVERE TRRITATION

UBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION

MGESTION:

MAY CAUSE ABDOMINAL PAIN, NAUSEA AND VOMITING.

NHALATION:

'APOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.

HOBERCONDONSSECTION IV FIRST AID MEASURES CARDINARE CONTRACTOR OF THE PROPERTY YE

YE MMEDIATELY PLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. IF REDNESS. TCHING, OR A BURNING SENSATION DEVELOPS SEE A PHYSICIAN.

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IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE REUSE, GRT MEDICAL ATTENTION IF IRRITATION PERSISTS.

II FION:

INGESTION: DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A PHYSICIAN IMMEDIATELY

INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE AKTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NONE FOR THIS MATERIAL.

FLAMMABLE PROPERTIES:

FLASH POINT:

>205F/>96C SETA FLASH CLOSED CUP.

LOWER FLANMABLE LIMITS:

N/A

UPPER FLAMMABLE LIMIT:

N/V

AUTO IGNITION TEMPERATURE:

NOT AVAILABLE

EXTINCUISHING MEDIA:

FOAM, CO2. DRY CHEMICAL, WATER FOG OR SPRAY, AS APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND MSHA/NIOSH APPROVED OR EQUIVALENT) TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF CONTAINED BRODUCTS AND OXYGEN DEFICIENCY.

SMALL SPILL:

DIKE AND ABSORB WITH INERT MATERIAL SUCH AS SAND AND REMOVE ALL LIQUID WITH THE USE OF A VACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID, THEN BEGIN TO ABSORE WITH SAND, SAW DUST OR COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS FOR PROPER DISPOSAL. KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SEWERS AND OPEN BODIES OF WATER. DECONTAMINATE ALL CLOTHING AND THE SPILL AREA WITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

HANDLING & STORAGE:

KEEP FROM FREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION, KEEP PRODUCT CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS.

OTHER PRECAUTIONS:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

USE LOCAL EXHAUST VENTILATION WITH A MINIMUM CAPTURE VELOCITY OF 100 FT/MIN.

(. [.SEC.] AT THE POINT OF VAPOR EVOLUTION. REFER TO THE CURRENT EDITION OF
IN "RIAL VENTILATION: A MANUAL OF RECOMMENDED PRACTICE PUBLISHED BY THE
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR INFORMATION ON THE
DESIGN, INSTALLATION, USE, AND MAINTENANCE OF EXHAUST SYSTEMS.

PRODUCT CODE: CS1303991

RESPIRATORY PROTECTION:

follow osha regulation 29 CFR 1910.134 for respirator use. Where overspray is PRESENT, OR IF CONCENTRATION OF PRODUCT IS NOT KNOWN OR ARE ABOVE THE EXPOSURE GUIDELINES. WHEN COMFORT LEVELS MAY BE EXCEEDED, USE AN APPROVED AIR-PURIFYING ATOR EQUIPPED WITH AN AMMONIA/METHYLAMINE CARTRIDGE(S).

SKIN PROTECTION:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION, NOTE THAT PVA DEGRADES IN WATER.

EYE PROTECTION:

CHEMICAL GOGGLES. IF SPLASHING MAY OCCUR OR DURING SPRAY OPERATIONS WEAR A FACE SHIRLD, UNLESS A FULL FACE PIECE RESPIRATOR IS USED, DO NOT WEAR CONTACT LENSES AS THEY MAY CONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE PROM EXPOSURE TO LIQUID AND/OR VAPORS AND SPRAY MIST.

ARRENDENHARME SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 212F/100C - 29804/-60 C SPECIFIC GRAVITY (H2O=1): 1.4

VAPOR DENSITY: LIGHTER THAN AIR

COATING V.O.C.: .08 lb/gl MATERIAL V.O.C.: .04 lb/gl

COATING V.O.C.: 10 q/l

EVAPORATION RATE:

MATERIAL V.O.C.: 5 q/l

SOLUBILITY IN WATER: SOLUBLE.

APPEARANCE:

RIGHLY THIXOTROPIC LIQUID.

ODOR:

FAINT AMMONIACAL ODOR.

DEDECOCODEDGO DE CONTROL SECTION X STABILITY & REACTIVITY DATA------

STABILITY:

STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORING, CONCENTRATED OXYCEN. SO HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

THERMAL DECOMFOSITION MAY YIELD ACRYLIC MONOMER, CARBON MONOXIDE AND CARBON DIOXIDE. UNIDENTIFIED ORGANIC COMPOUNDS IN FUMES AND SMOKE MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

INCONSEQUENTIAL IRRITATION

SKIN:

SKIN IRRITATION- RABBIT: PRACTICALLY NON-IRRITATING, DERMAL LDSU-RABBIT: >5000 ng/kg.

INCESTION:

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR A NUMBER OF ACTULUTE EMULSIONS THAT ARE COMPOSITIONALLY SIMILAR TO THIS PRODUCT

TYPICAL DATA ARE:

PRACTICALLY NON-IRRITATING

INHALATION:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND JSE (FOR EXAMPLE, DURING MIXING). BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THEN THE RECOMMENDED EXPOSURE LIMITS.

HEADACHE, NAUSEA, ABDOMINAL PAIN AND IRRITATION OF THE NOSE, THROAT AND LUNGS. SKIN AND EYE IRRITATION.

DATE REVISED

a AUGUST 200

: AUGUST 200

PRODUCT CODE: CSI303991

CHRONIC/CARCINOGENICITY:

HEADACHE, NAUSEA, VOMITING, ABDOMINAL PAIN & IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN AND EYES.

TE LOGY:
NO LAA.
REPRODUCTION:
NO DATA.
MUTAGENICITY:
NO DATA.

ECOTOXICOLOGICAL INFORMATION:

INHERENT BIODEGRADABILITY (OECD 302 B): THIS TYPE OF PRODUCT IS NOT BIODEGRADABLE BUT READILY BIODLIMINABLE.
EMULSION FOLYMER BIODEGRADATION IS GENERALLY CONSIDERED LIMITED AND DEPENDENT ON POLYMER SIZE AND ORIGIN OF TREATMENT SLUDGE. HOWEVER, MOST OF THESE FOLYMERS READILY ABSORB ONTO WATER TREATMENT SLUDGE AND THEREFORE WOULD BE BIOELIMINABLE PROM EFFLUENTS.

ACTIVATED SLUDGE RESPIRATORY INHIBITION (OECD 209): >100MG/L (NON-INHIBITING)

THE INFORMATION SHOWN IS BASED ON PROFILES OF COMPOSITIONALLY SIMILAR MATERIALS.

ALGAE (SELENASTRUM CAPRICORNUTUM), 72 HOUR EC50: >100 FFM (NON-TOXIC) RAINBOW TROUT (ONCORHYNCHUS MYKISS), 96 HOUR LC50: >100 PPM (NON-TOXIC) DAPHNIA MAGNA, 48 HOUR EC50: >100 PPM (NON-TOXIC) MICROTOX, 15 MINUTE EC50: >300 PPM (NON-TOXIC).

THE ABOVE DATA ARE FOR A COMPOSITIONALLY SIMILAR MATERIAL.

CHEMICAL FATE INFORMATION: NO DATA.

SE N XIII DISPOSAL CONSIDERATIONS: - OR QUEEN ENGREE DE MARKE ME CONSIDERATIONS : - OR QUEEN ENGREE DE MARKE DE

INSTRUCTIONS:

COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE THE CLEAR SUPERNATANT AND FLUSH TO A CHEMICAL SEWER. INCINERATE LIQUID AND CONTAMINATED SOLIDS IN ACCORDANCE WITH LOCAL, STATE, AND PEDERAL RECULATIONS.

DOT INFORMATION - 49 CFR 172.101 DOT DESCRIPTION: NOT REGULATED

RECESSESSESSESSECTION XV REGULATORY INFORMATION PROFESSESSESSESSESSESSES

(NOT MEANT TO BE ALL INCLUSIVE-SÉLECTED REGULATIONS REPRESENTED) US REGULATIONS:

STATUS OF SUBSTANCES LISTS:

THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CEILING LEVELS (NEIGHT %)
TO BE USED FOR CALCULATIONS FOR REGULATIONS.

FEDERAL EPA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT OF 1980 (CERCLA) REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE OF QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 302.4.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE TIT REQUIRES EMERGENCY PLANNING BASED ON THE THRESHOLD QUANTITIES (TPQ'S)

AT ILEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355

(; FOR SARA 302, 304, 311, AND 312)

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: NONE KNOWN

PRODUCT CODE: CSI303991

MATERIAL SAFETY DATA SHEET

DATE REVISED

: AUGUST 200

REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT APPEAR IN 40 CPR 372 (FOR SARA 313). THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

JENTS THAT COULD REQUIRE REPORTING UNDER THE STATUTE: SEE SECTION II IMPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE

US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY. THE REMAINING PERCENTAGE OF UNSPECIFIED INGREDIENTS, IF ANY, ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEFOAMERS, WETTING AGENTS, RESINS, DRYERS,

ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

DOES NOT CLASSIFY AS HAZARDOUS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

NONE KNOWN

EINECS:

NO INFORMATION.

STATE REGULATIONS:

CALIPORNIA:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA A: CAUSE CANCER:

CRYSTALLINE SILICA. CAS#14808-60-7 (AIRBORNE PARTICLES OF RESPIRABLE SIZE)

IN ADDITION TO THE ABOVE NAMED CHEMICALS, IF ANY, THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE TOXICANTS.

B: ^ SE REPRODUCTIVE HARM:

NO . NOWN

PENNYSYLVANIA:

NONE KNOWN

NEW JERSEY:

NONE KNOWN

OTHER:

NONE KNOWN

MANUFACTOR AND SECUTION AND OTHER INFORMATIONS SEED SECURITIES OF SECURI

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سيرياب - بين L-01-1

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

PRODUCT NAME: EPOM COATING PRIMER

PRODUCT CODE: CSI303495

HMIS CODES: H F R 1

SECTION 1 MANUFACTURER IDENTIFICATION

LE SYNTEC INCORPORATED CA

P.O. BOX 7000

CARLISLE, PA 17013

24 HOUR EMERGENCY PHONE: INITIAL (FIRST CALL) CHEMTREC: 800-424-9300

INFORMATION PHONE: (717)245-7000 FAX: (717) 245-7197

DATE PRINTED

RP-CAP-Q

: 2/3/2004

DATE REVISED

: FEBRUARY 2004

HAZARDOUS INGREDIENTS/SARA III INFORMATION SECTION 2 -------

WEIGHT

REPORTABLE COMPONENTS

CAS NUMBER MM HG @ TEMP

PERCENT - -

* URETHANE HYBRID POLYMER

MIXTURE 1-METHYL-2-PYRROLIDINGNE, CAS#872-50-4, 5%,NO OEL ESTABLISHED

68F/20C

18.52 21C/70F

STYRENE ACRYLIC COPOLYMER

17

210/705

25

58

INDIVIDUAL RESIDUAL MONOMERS <.1%, MIXTURE, NO EXPOSURE LIMITS ESTABLISHED.

AQUA AMMONIA .1% MAX, CASS1336-21-6, ACGIH THA 25PPM, STEL 35 PPM,

OSHA TWA NONE, OSHA STEL 35 PPM. CTYRENE/ACRYLIC COPOLOMYER, MIXTURE,

NO EXPOSURE LIMITS ESTABLISHED.

WATER

7732-18-5

UNK UNK

17

.1

NO OEL'S ESTABLISHED.

AQUASPERSEIX LAMP BLACK (PIGMENT DISPERSION, AQUEOUS COLORANT) MIXTURE PROPYLENE GLYCOL, CAS#57-55-6, 5-10% NO OCCUPATIONAL EXPOSURE LIMITS ESTABL ISHED FOR THIS CHEMICAL. CARBON BLACK. CAS# 1333-86-4, 30-60%, QSHA AND AC GIR TLV-3.5MG/M3 TWA. SURFACTANT NOTER NO. 56705700001-5043F TRADE SECRET 1-5%, NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED FOR THIS CREMICAL.

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

THIS MEDS MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT.

POTENTIAL HEALTH EFFECTS

EYES:

CONTACT MAY RESULT IN SEVERE IRRITATION

SKINz

SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION

INGESTION:

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGUSTION OF LARGE QUANTITIES MAY CAUSE THRITATION OF THE DIGESTIVE TRACT.

INHALATION:

PROLONGED EXPOSURE IN POORLY VENTILATED AREAS MAY BE IRRITATING TO EYES, SKIN, MUCOUS MEMBRANES, RESPIRATORY TRACT, AND MAY PRODUCE SYMPTOMS OF HEADACHES DUE TO TRACE AMOUNTS OF RESIDUAL MONOMER VAPORS.

EYES:

IMMEDIATELY FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. IF REDNESS, ITCHING, OR A BURNING SENSATION DEVELOPS SEE A PHYSICIAN.

SKIN:

WASH WITH PLENTY OF SOAP AND WATER.

INGESTION:

CONSULT A PHYSICIAN

INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT EREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

P MORE THAN 2.0 ML PER KG HAS BEEN INGESTED AND VOMITING HAS NOT OCCURRED, EMESIS SHOULD E INDUCED WITH SUPERVISION. KEEP VICTIM'S HEAD BELOW HIPS TO PREVENT ASPIRATION. IF LYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMUSIS, GASTRIC LAVAGE USING A CUFFED ENDOTRARCHEAL TUBE SHOULD BE CONSIDERED.

FLAMMABLE PROPERTIES:

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

FLASH POINT: >205F/>96C SETA FLASH CLOSED CUP.

LOWER FLAMMABLE LIMITS: N/A UPPER FLAMMABLE LIMIT: N/A

AUTO IGNITION TEMPERATURE: NOT AVAILABLE

EXTINGUISHING MEDIA:

CO2: DRY CHEMICAL, WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES:

SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN ENCLOSED AREAS. AFTER WATER EVAPORATES, REMAINING MATERIAL WILL BURN. USE ALL PURPOSE FOAM ON FIRES. USE CO2 OR DRY CHEMICAL ON SMALL FIRES.

SMALL SPILL:

DIKE AND ABSORB WITH INERT MATERIAL SUCH AS SAND AND REMOVE ALL LIQUID WITH THE USE OF A VACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID, THEN BEGIN TO ABSORB WITH SAND, SAW DUST OR COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS FOR PROPER DISPOSAL, KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SEMERS AND OPEN BODIES OF WATER.
DECONTAMINATE ALL CLOTHING AND THE SPILL AREA MITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

EDDESCRIPTION 7 HANDLING AND STORAGEDDESCRIPTION FROM THE STORAGED TO STORAGED

HANDLING & STORAGE:

KEEP FROM PREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS TICHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS. STORE OUT OF DIRECT SUNLIGHT AT TEMPERATURES BETWEEN 40 - 100F.

OTHER PRECAUTIONS:

CLOSED CONTAINERS MAY EXPLODE DUE TO PRESSURE BUILD-UP IF EXPOSED TO EXTREME HEAT. LO NOT CET IN EYES, ON SKIN OR ON CLOTHING. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MIST. KREP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. EMPTY CONTAINERS, ESPECIALLY DRUMS, SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND DROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF, USE ONLY IN A WELL VENTILATED AREA. KEEP OUT OF THE REACH OF CHILDREN.

ENGINEERING CONTROLS/PERSONAL PROTECTION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE DURING MIXING AND APPLICATION OPERATIONS TO MINIMIZE EXPOSURE, USE EXPLOSION-PROOF LOCAL EXHAUST VENTILATION CAPABLE OF MAINTAINING EMISSIONS AT THE POINT OF USE BELOW THE PEL OR TLV OR OTHER EXPOSURE GUIDELINES, AS APPROPRIATE. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. EXPLOSION-PROOF MECHANICAL EXHAUST VENTILATION, WITH VOLUME AND PATTERN CAPABLE OF MAINTAINING A FRESH AIR SUPPLY, MAY BE NECESSARY IN CONFINED SPACES. REFER TO OSHA STANDARD 29 CFR 1910.94 FOR GUIDELINES. TURN OFF HEATING AND/OR AIR CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING.

RESPIRATORY PROTECTION:

WEAR A NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THE VAPOR OR MIST CONCENTRATION AT THE POINT OF USE. APPROPRIATE RESPIRATORS MAY BE A FULL FACEPIECE OR A HALF MASK AIR-PURIFYING CARTRIDGE RESPIRATOR EQUIPPED FOR ORGANIC VAPORS/MISTS, A SELF-CONTAINED DREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A SUPPLIED-AIR RESPIRATOR, REFER TO OSHA STANDARD 29 CFR 1910.134 FOR ADDITIONAL INFORMATION.

SKIN PROTECTION:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION. NOTE THAT PVA DEGRADES IN MATER.

EYE PROTECTION:

CHEMICAL GOGGLES. IF SPLASHING MAY OCCUR OR DURING SPRAY OPERATIONS NEAR A FACE SHIELD, UNLESS A FULL FACE PIECE RESPIRATOR IS USED. DO NOT WEAR CONTACT LENSES AS THRY MAY TONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE FROM CONTACT WITH LIQUID AND EPRAY MIST.

BOILING RANGE: 100C/212F - 212F/100C SPECIFIC GRAVITY (H2O=1): 1.0586

VAPOR DENSITY: LIGHTER THAN AIR EVAPORATION RATE: SLOWER THAN ETHE

COATING V.O.C.: 0.84 lb/gl COAT

COATING V.O.C.: 101 g/1

EPDM COATING PRIMER

MATERIAL V.O.C.: 0.37 lb/ql

MATERIAL V.O.C.: 44 g/l

SOLUBILITY IN WATER: SOLUBLE; DILUTABLE APPEARANCE: WHITE OR COLORED AQUE

secure section 10 stability & REACTIVITY DATA================

STABILITY:

STABLE

CONDITIONS TO AVOID

EXTREMBLY HOT OR COLD TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID)

NONE KNOWN

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

WILL NOT OCCUR.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

EYE:

INCONSEQUENTIAL TRRITATION

SKIN:

SKIN IRRITATION- RABBIT: GRACTICALLY NON-IRRITATING DERMAN LD50-RABBIT: >5000 mg/kg.

INGESTION:

ORAL LD50-RAT: >5000 MC/KC.

INHALATION:

NO DATA

SUBCHRONIC:

HEADACHE, NAUSEA, ABOOMINAL PAIN AND IRRITATION OF THE NOSE, THROAT AND LUNGS. SKIN AND EYE TRRITATION.

CHRONIC/CARCINOGENICITY:

NOT ESTABLISHED

TERATOLOGY:

NO DATA

REPRODUCTION:

NO DATA.

MUTAGENICITY:

NO DATA

ECOTOXICOLOGICAL INFORMATION:

NO DATACHEMICAL FATE INFORMATION'S

NO DATA.

INSTRUCTIONS:

DISPOSE OF UNUSED PRODUCT OR CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE PROCEAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCENTAIN PROPER DISPOSAL PROCEDURES. INCINERATION IS ACCEPTABLE AND THE PREFERRED METHOD OF DISPOSAL, HOWEVER; MITROGEN OXIDE EMISSIONS CONTROLS MAY BE REQUIRED TO MEET SPECIFICATIONS. CHEMICAL AND BIOLOGICAL DEGRADATION IS POSSIBLE. EMPTY CONTAINERS WILL RETAIN PRODUCT RESIDUE AND VAPORS AND ARE SUBJECT TO PROPER WASTE DISPOSAL. AS ABOVE.

SHIPPING INFORMATION:

DOT INFORMATION - 49 CFR 172.101

DOT DESCRIPTION:

OTHER REGULATED SUBSTANCES, LIQUID, N.O.S. (CONTAINS STHYLENE GLYCOL), 9,

NA

(NOT MEANT TO BE ALL INCLUSIVE-SCLECTED RECULATIONS REPRESENTED)

US REGULATIONS:

STATUS OF SUBSTANCES LISTS:

THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CHILING LEVELS (WEIGHT &)

TO BE USED FOR CALCULATIONS FOR REGULATIONS.

A REPORTABLE QUANTITY IS A QUANTITY OF A HAZARDOUS SUBSTANCE THAT
TRIGGERS REPORTING REQUIREMENTS UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIBERATY ACTICEPOLATER ASSETTING EXCEPTS THE

COMPENSATION AND LIABILITY ACT (CERCLA) . IF A SPILL OF A SUBSTANCE EXCEEDS IT'S

MATERIAL SAFETY DATA SHEET

EPDM COATING PRIMER

APPENDIX B. THE RELEASE MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT (800) 422-8802, THE STATE EMERGENCY RESPONSE COMMISSION (SERC), AND COMMUNITY EMERGENCY COORDIANTORS LIKELY TO BE APPECTED.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE ICHOWN

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986(SARA) TITLE III
REQUIRES EMERGENCY PLANNING DASED ON THE THRESHOLD QUANTITIES (TPQ'S)
AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355
APPENDIX ALB EXTREMELY HAZARDOUS SUBSTANCES. THE EMERGENCY PLANNING AND RELEASE
REQUIREMENTS OF 40 CFR 355 APPLY TO ANY FACILITY AT WHICH THERE IS PRESENT AN
AMOUNT OF ANY EXTREMELY HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF IT STHRESHOLD PLANNING QUATITY.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN

EPCRA 40 CFR 372 (SECTION 313 REQUIRES EPA AND THE STATES TO ANNUALLY COLLECT DATA ON RELEASES OF CERTAIN TOXIC MATERIALS FROM INDUSTRIAL FACILITIES, AND MAKE THE DATA AVAILABLE TO THE PUBLIC IN THE TOXICS RELEASE INVENTORY (TRI), THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED OR OR COMPLLED FOR THIS MATERIAL.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: SEE SECTION II

THE COMPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY. THIS MIXTURE HAS NOT BEEN TESTED AS A WHOLE TO DETERMINE WHETHER THE MIXTURE IS A HEALTH HAZARD. THE MIXTURE SHALL BE ASSUMED TO PRESENT THE SAME HEALTH HAZARDS AS DO THE COMPONENTS WHICH COMPRISE ONE PERCENT (BY WEIGHT OR VOLUME) OR GREATER OF THE MIXTURE, EXCEPT THAT THE MIXTURE SHALL BE ASSUMED TO PRESENT A CARCINOGENIC HAZARD IF IT HAS A COMPONENT IN CONCENTRATIONS OF 0.1 PERCENT OR GREATER WHICH IS CONSIDERED TO BE A CARCINOGEN. FOR A LIST OF HAZARDOUS INGREDIENTS:

SEE SECTION II

THE REMAINING PERCENTAGE OF UNSPECIFIED INGREDIENTS, IF ANY. ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CPR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEFOAMERS, WETTING AGENTS, RESINS, DRYERS, ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

THIS PRODUCT IS NOT LISTED IN ANY DIVISION, CLASS, OR SUBDIVISION.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

NONE KNOWN

EINECS:

MO INFORMATION.

STATE REGULATIONS:

CALIFORNIA:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING NATER AND TOXIC EMPORCEMENT ACT OF 1986. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA

A: CAUSE CANCER:

NONE KNOWN

B: CAUSE REPRODUCTIVE HARM:

NONE KNOWN

FLORIDA:

NONE RNOWN

MICHIGAN:

NONE KNUWN

MINNESOTA:

NONE KNOWN

MASSACHUSETTS

NONE KNOWN

PENNYSYLVANIA:

NONE KNOWN

NEW JERSEY:

ифив кифил

NEW YORK:

NONE KNOWN

WASHINGTON:

NONE KNOWN

codes defined:

PROPER When the BA is in nounde for chemicals that are special harsadous subsequent

EPDM COATING PRIMER

A "ff" entry in the RQ column indicates that a statutory one-pound RQ applies, but the Agency may adjust the statutory RQ in a future rulemaking.

A "sa" entry in the RQ column no RQ is being assigned to the generic or broad class.

A har following the RQ indicates that no release reporting is required if the diameter of the piacos of the solid metal released is 100 micrometers (0.004 inches) or more. If a final RQ has not been assigned under CERCIA to any extremely hazardous chemical listed under Section 301 of SARA Title III, a statutory RQ of one pound applies for Section 301 reporting. This product lists the one-pound statutory RQ for extremely hazardous substances not listed under CERCIA.

A "+" following an entry means the chemical is listed as a hazardous sir pollutant under Section 112(b) of the Clean Air Act. A statutory RQ of 1 lb. applies until RQs are adjusted.

```
STATES:
 MA:
        Codes
 1 IARC(Int.Agency for Research on Cancer)
 2 OSHA 29 CFR 1910.1000, pub part z
       National Toxicology Program
 4 ACGIH American Conference of Gov. Ind. Hygienists (TLV)
 5 NFPA19 HAZ CHEM
 6 NFPA325M FIRE HAZARDS
 7 CAG Carcinogen Assessment Group
 8 EPA Environmental Protection Agency posticides (40 CFR 162.30)
 9 NCI National Cancer Institutes substances
Hazard Designations
 *C* - Carcinogon Poses a risk of cancer in humans.
*N* - Neurotoxin Poses a risk of neurotoxic effects in humans.
 *M* - Mutagin Poses a risk of mutagenesis in humans.
*E* - Extraordinarily Hexardous Substances that have a low lethal
                                                                         dose (LD(50)) or
are designated carcinogens.
*Tl* - Toratogen Sufficient evidence of teratogenic risk in humans.
 *T2* - Teratogen Limited evidence of teratogenic risk in humans.
Footnote Designations
F1 - Elemental Metals and Alloys
 2 - Asbestos
 3 - Asphalt
 4 - Coal Tar Pitch Volatile
F5 - Dust Producing Materials
F6 - EPA Extremely Haz. Substances
F7 - Volatile Organic Substances (VQC's)
P8 - Cercla Hazardous Substances
F9 - Toxic Chemical Release Substances
MI:
       Codes
-- REQUIRES FURTHER REPORTING
MN:
A Amorican Conference of Governmental Industrial Hygienists (ACGIH)
I American Industrial Hygiene Association (AIHA)
N National Institute for Occupational Safety and Health (NIOSH)
O Occupational Safety and Health Administration (OSHA)
R International Agency for Research on Cancer (IARC)
S OSHA proposed standards.
T National Toxicology Program (NTP)
Hazard Dosignations
T: Listed as carcinogen or potential by IARC or MTP
F: Not listed as carcinogen or potential carcinogen
asphyxiant: Apphyxiant
duot: Airborne particulate exposure hazard
fumc: Small solid particles formed by the condensation of vapors of
                                                                           solid materials
skin: Potential hazard from absorption through skin contact
PA: CODES IDENTIFY CHEMICALS AS:
--(Bacic Hazard)
E (ENVIROMENTAL HAZARD)
* ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD
S (SPECIAL HAZARD)
```

HE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. USERS SHOULD ONSIDER THESE DATA ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM & DETERMINE THE SUITABILITY & COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE & DISPOSAL OF THESE MATERIALS & THE SAFETY & HEALTH OF EMPLOYEES & CUSTOMERS

SHEET

DATE REVISED

: AUGUST 200

RODUCT CODE:CSI303991 RODUCT NAME: ACRYLIC COATING WHITE

HMIS CODES: H F R P 2 0 0 I

MANUFACTURER IDENTIFICATION ============= SECTION I

IDENTIFICATION OM

LE SYNTEC INCORPORATED 'AR

.O. BOX 7000

MARLISLE, PA 17013

4 HOUR EMERGENCY PHONE: INITIAL (FIRST CALL) CHEMTREC: 800-424-9300 NFORMATION PHONE: (717)245-7000 FAX: (717) 245-7197

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION -----

VAPOR PRESSURE WEIGHT

PEPORTABLE COMPONENTS

CAS NUMBER MM HG & TEMP

PERCENT

MIXTURE 17 69F/20C 41

CRYLIC POLYMER AMMONIA, CAS #7664-41-7, < 0.20% MAXIMUM, OSHA STEL-35PPM, ACGIH TWA-25PPM, STEL-15PPM. MANUFACTURER'S SUGGESTED GUIDELINES, TWA-25PPM, STEL-35PPM.

ALCIUM CARBONATE

471-34-1 N/A N/A

OSHA PEL-15MG/M3, TOTAL DUST, SMG/M3, RESPIRABLE DUST. ACGIH TLV-10 MG/M3, TOTAL DUST CONTAINING NO ASBESTOS AND <1% FREE SILICA. IF SILICA LEVELS ABOVE 1.0% ARE PRESENT, THE TLV VALUE IS 0.1 MG OF

RESPIRABLE SILICA PER CU. METER FOR BOTH OSHA PEL AND ACGIH TLV.

7732-18-5 NO DATANO DATA JATER

NO OEL'S ESTABLISHED.

21645-51-2 N/A N/A LUMINUM TRIHYDROXIDE

ADUMINA TRIHYDROXIDE; CAS#1344-28-1 64.5%BY WEIGHT. OSHA/PEL 10PPM, ACGIH /TLV 10PPM.

13463-67-7 N/A N/A EDIXOID MUINATI TITANIUM DIOXIDE, 86-97%, CAS#13463-67-7, ACGIN TLV-10MG/M3, TOTAL DUST TWA, OSHA PEL-15MG/M3, TOTAL DUST, 8 HR TWA, AEL(ACCEPTABLE EXPOSURE LIMIT) OF lOMG/M3, TOTAL DUST 8 HR TWA. 5MG/M3 RESPIRABLE DUST 8 HR TWA. (AEL IS THE EXPOSURE LIMIT RECOMMENDED BY THE MANUFACTURER OF THIS CHEMICAL). UMINUM HYDROXIDE, CAS#21645-51-2, 1-5%, NO EXPOSURE LIMITS ESTABLISHED.

TATE MINERALS (SILICATE, MICA) 12001-26-2 N/A N/A MICA, CAS#12001-26-2, 95.0-99.0%, ACGIH TLV-20MPPCF TWA, STEL-3MG/M3, RESPIRABLE DUST. QUARTZ, CAS#14808-60-7, 0.1-5.0%, ACGIH TLV-0.1MG/M3 TWA. RESPIRABLE DUST, OSHA PEL-0.1MG/MJ, RESPIRABLE DUST, (%SIO2+2) RESPIRABLE QUARTZ-SEE 29CFR-1910.1000 TABLE Z-1-A, AIR CONTAMINANTS, OSHA IDLH, 50 MICRO GRAMS/M3, 10 HOUR TWA, RESPIRABLE FREE SILICA.

· Indicates toxic chemical(s) subject to the reporting requirements of section 113 of Title III and of 40 CFR 372. |Indicates carcinogenic chemical.

THIS MSDS MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT.

ADDEDEDEDEDEDEDEDEDEDEDEDEDE III HAZARDS IDENTIFICATAION ======================= OTENTIAL HEALTH EFFECTS

CONTACT WITH VAPOR AND/OR SPRAY MIST MAY RESULT IN IRRITATION, CONTACT WITH JOUID MAY RESULT IN SEVERE IRRITATION

WESTANCE MAY CAUSE SLIGHT SKIN IRRITATION

'MGESTION:

MAY CAUSE ABDOMINAL PAIN, NAUSEA AND VOMITING.

INHALATION:

APOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.

IGPERRORSES SECTION IV FIRST AID MEASURES ------

1Y1

IMMEDIATELY FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. IF REDNESS, !YI ITCHING, OR A BURNING SENSATION DEVELOPS SEE A PHYSICIAN.

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SKIN:

TMMRDIATELY WASH SKIN NITH LOTS OF SOAF AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRPITATION PERSISTS.

__ION: TN

INCESTION: DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A PHYSICIAN IMMEDIATELY

TNHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NONE FOR THIS MATERIAL.

FLAMMABLE PROPERTIES:

FLASH POINT:

>20SF/>96C SETA FLASH CLOSED CUP.

LOWER PLANMABLE LIMITS:

N/A

UPPER FLAMMABLE LIMIT:

N/A

AUTO IGNITION TEMPERATURE:

NOT AVAILABLE

EXTINGUISHING MEDIA:

POAM, CO2, DRY CHEMICAL, WATER FOG OR SPRAY, AS APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND MSHA/NIOSH APPROVED OR EQUIVALENT) TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF TION PRODUCTS AND OXYGEN DEFICIENCY.

SMALL SPILL:

DIKE AND ABSORB WITH INERT MATERIAL SUCH AS SAND AND REMOVE ALL LIQUID WITH THE USE OF A VACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID, THEN BEGIN TO ABSORE WITH SAND, SAW DUST OR COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS FOR PROPER DISPOSAL. KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SEWERS AND OPEN BODIES OF WATER. DECONTAMINATE ALL CLOTHING AND THE SPILL AREA WITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

-----SECTION VII HANDLING AND STORAGE CARDESCEDED CONTROL OF CONTR

HANDLING & STORAGE: KEEP FROM FREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS.

OTHER PRECAUTIONS:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

DEBUTE SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION-ENGINEERING CONTROLS/PERSONAL PROTECTION:

USE LOCAL EXHAUST VENTILATION WITH A MINIMUM CAPTURE VELOCITY OF 100 FT/MIN. M.SEC.) AT THE POINT OF VAPOR EVOLUTION. REFER TO THE CURRENT EDITION OF

TRIAL VENTILATION: A MANUAL OF RECOMMENDED PRACTICE PUBLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR INFORMATION ON THE DESIGN, INSTALLATION, USE, AND MAINTENANCE OF EXHAUST SYSTEMS.

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RESPIRATORY PROTECTION:

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FOLLOW OSHA REGULATION 29 CFR 1910.134 FOR RESPIRATOR USE. WHERE OVERSPRAY IS PRESENT, OR IF CONCENTRATION OF PRODUCT IS NOT KNOWN OR ARE ABOVE THE EXPOSURE QUIDELINES. WHEN COMFORT LEVELS MAY BE EXCEEDED, USE AN APPROVED AIR-FURIFYING TOR EQUIPPED WITH AN AMMONTA/METHYLAMINE CARTRIDGE(S).

SKIN PROTECTION:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION. NOTE THAT PVA DEGRADES IN WATER.

EYE PROTECTION:

CHEMICAL GOGGLES. IF SPLASHING MAY OCCUR OR DURING SPRAY OPERATIONS WEAR A FACE SHIELD, UNLESS A FULL FACE PIECE RESPIRATOR IS USED. DO NOT WEAR CONTACT LENSES AS THEY MAY CONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE FROM EXPOSURE TO LIQUID AND/OR VAPORS AND SPRAY MIST.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 212F/100C - 2980+/-60 C SPECIFIC GRAVITY (H2O=1): 1.4 EVAPORATION RATE:

VAPOR DENSITY: LIGHTER THAN AIR

COATING V.O.C.: .08 lb/gl MATERIAL V.O.C.: .04 lb/gl

COATING V.O.C.: 10 g/l MATERIAL V.O.C.: 5 q/l

SOLUBILITY IN WATER: SOLUBLE.

APPEARANCE:

HIGHLY THIXOTROPIC LIQUID.

ODOR -

FAINT AMMONIACAL ODOR.

STABILITY:

STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY (MATERIALS TO AVOID)

AV(TRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN. HYPOCHLORITE OR CALCIUM HYPOCHLORITE. SOL

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

THERMAL DECOMPOSITION MAY YIELD ACRYLIC MONOMER, CARBON MONOXIDE AND CARBON DIOXIDE. UNIDENTIFIED ORGANIC COMPOUNDS IN FUMES AND SMOKE MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

EYE:

INCONSEQUENTIAL IRRITATION

SKIN:

SKIN IRRITATION- RABBIT: PRACTICALLY NON-IRRITATING, DERMAL LDSU-RABBIT: >5000 ng/kg.

INGESTION:

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR A NUMBER OF ACTYLIC EMULSIONS THAT ARE COMPOSITIONALLY SIMILAR TO THIS PRODUCT

TYPICAL DATA ARE:

PRACTICALLY NON-IRRITATING

INHALATION:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND JSE (FOR EXAMPLE, DURING MIXING), BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THEN THE RECOMMENDED EXPOSURE LIMITS.

NIC:

HERITATIE, NAUSEA, ABDOMINAL PAIN AND IRRITATION OF THE NOSE, THROAT AND LUNGS. SKIN AND EYE IRRITATION.

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CHRONIC/CARCINGGENICITY:

HEADACHE, NAUSEA, VOMITING, ABDOMINAL PAIN & IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN AND EYES.

TEI LOGY:

REPRODUCTION:

NO DATA.

MUTAGENICITY:

NO DATA.

ECOTOXICOLOGICAL INFORMATION:

INHERENT BIODEGRADABILITY (OECD 302 B): THIS TYPE OF FRODUCT IS NOT BIODEGRADABLE BUT READILY BIOELIMINABLE.

EMULSION FOLYMER BIODEGRADATION IS GENERALLY CONSIDERED LIMITED AND DEPENDENT ON POLYMER SIZE AND ORIGIN OF TREATMENT SLUDGE. HOWEVER, MOST OF THESE FOLYMERS READILY ABSORB ONTO WATER TREATMENT SLUDGE AND THEREFORE WOULD BE BIOELIMINABLE

PROM EFFLUENTS.

ACTIVATED SLUDGE RESPIRATORY INHIBITION (OECD 209): >100MG/L (NON-INHIBITING)

THE INFORMATION SHOWN IS BASED ON PROFILES OF COMPOSITIONALLY SIMILAR MATERIALS.

ALGAE (SELENASTRUM CAPRICORNUTUM), 72 HOUR EC50: >100 PPM (NON-TOXIC) KAINBOW TROUT (ONCORHYNCHUS MYKISS), 96 HOUR LC50: >100 PPM (NON-TOXIC) DAPHNIA MAGNA, 48 HOUR EC50: >100 PPM (NON-TOXIC) MICROTOX, 15 MINUTE EC50: >300 PPM (NON-TOXIC)

THE ABOVE DATA ARE FOR A COMPOSITIONALLY SIMILAR MATERIAL.

CHEMICAL FATE INFORMATION: NO DATA.

SE N XIII DISPOSAL CONSIDERATIONS: - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATIONS : - OCCUPANTE DE LE CONSIDERATION : - OCCUPANTE DE LE CONS

INSTRUCTIONS:

COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE THE CLEAR SUPERNATANT AND FLUSH TO A CHEMICAL SEWER. INCINERATE LIQUID AND CONTAMINATED SOLIDS IN ACCORDANCE WITH LOCAL, STATE, AND PEDERAL REGULATIONS.

EMBERGEREERESSECTION XIV TRANSFORT INFORMATION---------

SHIPPING INFORMATION:

DOT INFORMATION - 49 CFR 172.101 DOT DESCRIPTION: NOT REGULATED

(NOT MEANT TO BE ALL INCLUSIVE-SÉGECTED REGULATIONS REPRESENTED) US REGULATIONS:

STATUS OF SUBSTANCES LISTS:

THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CEILING LEVELS (WEIGHT 3) TO BE USED FOR CALCULATIONS FOR REGULATIONS.

FEDERAL EPA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT OF 1980 (CERCLA) REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE OF QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 302.4

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: NONE KNOWN

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III REQUIRES EMERGENCY PLANNING BASED ON THE THRESHOLD QUANTITIES (TPQ'S) AN LEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355

(U FOR SARA 302, 304, 311, AND 312)

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: NONE KNOWN

PRODUCT CODE: CS1303991

DATE REVISED

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REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT APPEAR IN 40 CFR 372 (FOR SARA 313). THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

CC ENTS THAT COULD REQUIRE REPORTING UNDER THE STATUTE: SEE SECTION II
MPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE

US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.
THE REMAINING PERCENTAGE OF UNSPECIFIED INGREDIENTS, IF ANY, ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEPOAMERS, WETTING AGENTS, RESINS, DRYERS,

ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

DOES NOT CLASSIFY AS HAZARDOUS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

NONE KNOWN

EINECS:

NO INFORMATION.

STATE REGULATIONS:

CALIPORNIA:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA A: CAUSE CANCER:

CRYSTALLINE SILICA, CAS#14808-60-7 (AIRBORNE PARTICLES OF RESPIRABLE SIZE)

IN ADDITION TO THE ABOVE NAMED CHEMICALS, IF ANY, THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE TOXTCANTS.

B: BE REPRODUCTIVE HARM:

NO NOWN

PENNYSYLVANIA:

NONE KNONN

NEW JERSEY:

NONE KNOWN

OTHER:

NONE KNOWN

ESECUTION XVI OTHER INFORMATION-DESCRIPTION-DESCRIPTION

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MATERIAL SAFETY DATA SHEET RP-FGC-

FLASHING GRADE COATING

PRODUCT NAME: FLASHING GRADE COATING

PRODUCT CODE: SO 2101

HMIS CODES: H F R

100

== ======= SECTION 1 - MANUFACTURER IDENTIFICATION

CARLLELE SYNTEC INCORPORATED

P.Q. BOX 7000

CARLISLE, PA 17013

24 HOUR EMERGENCY PHONE: INITIAL (FIRST CALL) CHEMTREC: 800-424-9300

NFORMATION PHONE: (717)245-7000 FAX: (717) 245-7197

DATE PRINTED

: 1/2/04

DATE REVISED

: JANUARY 2004

REPORTABLE COMPONENTS	CAS NUMBER MM H		1	PERCENT
ACRYLIC POLYMER	MXXTURE	17	68\$/20C	43
AMMONIA, CAS #7664-41-7, < 0.20% MAXIMUM, OBRA STEL-				
GTEL-35PPM. MANUFACTURER'S SUGGESTED GUIDELINES, TWA CALCIUM CARBONATE	······		1 4-5	
OSHA PEL-15MO/M3, TOTAL DUST, 5MG/M3, RESPIRABLE DUST	471-34 -1	N/A	n/A	18
ACGIH TLV-10 MG/M3, TOTAL DUST CONTAINING NO ASBESTO			1	
IF SILICA LEVELS ABOVE 1.0% ARE PRESENT, THE TLV VAL			1	
RESPIRABLE SILICA PER CU. METER FOR BOTH OSHA PEL AN			I	
WATER	7732-18-5	UNK	UNK	15
NO DEL'S ESTABLISHED.		04426		20
ALUMINUM TRIHYDROXIDE	21645-51-2	N/A	N/A	12
ALUMINA TRIHYDROXIDE; CAS#1344-28-1 64.5%BY WEIGHT.		4- , -,		
/TLV loppm.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ļ	
IRON OXIDE	MIXTURE	N/A	N/A	5
SILICON DIOXIDE CASE7631-86-9; 1% BY WEIGHT. OSHA/T	WA 6MG/M3, ACCIH/TWA 10	•	•	_
MG/M3.			:	
Silicate Minerals (Silicate, Mica)	12001-26-2	N/A	N/A	3
IICA, CAS#12001-26-2, 95.0-99.0%, ACGIE TLV-20MPPCF	IWA, STRL-3MG/H3,		ı	
ESPIRABLE DUST. QUARTZ, CAS#14808-60-7, 0.1-5.0%, A			1	
LESPIRABLE DUST, DSHA PEL-0.1MG/M3, RESPIRABLE DUST,	(%8102+2) Respirable		į.	
QUARTZ-SEE 29CFR-1910.1000 TABLE Z-1-A, AIR CONTAMIN	ANTS, OSKA IDLH,		1	
50 MICRO GRAMS/M3, 10 HOUR TWA, RESPIRABLE PREE SILI			ı	
ISOBUTANE (ENCAPBULATED IN POLYMER)	75-28-5	N/A	n/a	2
CALCIUM CARBONATE WITH CRYSTALLINE SILICA-0.1% THY I	S 3MG/W3.			

*** No toxic chemical(s) subject to the reporting requirements of doction 313 of fitle III and of 40 CFR 372 are product. ***

THIS MADE MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT.

POTENTIAL HEALTH EFFECTS

EYES:

CONTACT WITH VAPOR AND/OR SPRAY MIST MAY RESULT IN TRRITATION, CONTACT WITH LIQUID MAY RESULT IN SEVERE IRRITATION

SKIN:

SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION

INGESTION:

MAY CAUSE ABDOMINAL PAIN, NAUSEA AND VOMITING.

INHALATION:

VAPOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND

EYES:

IMMEDIATELY PLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES, IF REDNESS, ITCHING, OR A BURNING SENSATION DEVELOPS SEE A PHYSICIAN.

SKIN:

IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE

MATERIAL SAFETY DATA SHRET

TLASHING GRADE COATING

CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS

INGESTION:

DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A

INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NONE FOR THIS MATERIAL

FLAMMABLE PROPERTIES:

FLASH POINT: >205F/>96C SETA FLASH CLOSED CUP.

LOWER FLAMMABLE LIMITS: N/A

UPPER FLAMMABLE LIMIT: N/A

AUTO IGNITION TEMPERATURE: NOT AVAILABLE

EXTINGUISHING MEDIA:

FOAM, CO2, DRY CHEMICAL, WATER FOR OR SPRAY, AS APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED SPACE NITHOUT FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND MSHA/NIOSH APPROVED OR EQUIVALENT) TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCY.

SMALL SPILL:

TIKE AND AUGORD WITH INERT MATERIAL SUCH AS SAND AND REMOVE ALL LIQUID WITH THE USE OF A MACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID, THEN BEGIN TO ABSORD WITH SAND, SAW DUST OF COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS FOR PROPER DISPUSAL, KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SUMERS AND OPEN BODIES OF WATER.

DECONTAMINATE ALL CLOTHING AND THE SPILL AREA WITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

HANDLING & STORAGE:

KEEP PROM PREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENIHATION. KEEP PRODUCT CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS

OTHER PRECAUTIONS:

CONTAINERS OF THIS NATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

ENGINEERING CONTROLS/PERSONAL PROTECTION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE DURING MIXING AND APPLICATION OFERATIONS TO MINIMIZE EXPOSURE, SPRAY OR ROLL, WITH WIND OR FAN CARRYING VAPORG AWAY FROM YOU. TURN OFF HEATING AND/OR AIR CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING

RESPIRATORY PROTECTION:

FOLLOW OSHA REGULATION 29 CFR 1910.134 FOR RESPIRATOR USE. WHERE OVERSPRAY IS PRESENT, OR F CONCENTRATION OF PRODUCT IS NOT KNOWN OR ARE ABOVE THE EXPOSURE GUIDELINES. WHEN OMFORT LEVELS MAY BE EXCEEDED, USE AN APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED WITH AN AMMONIA/METHYLAMINE CARTRIDGE(S).

SKIN PROTECTION:

MATERIAL SAFETY DATA SHEET

FLASHING GRADE COATING

THE USE OF GLOVES IMPERMINABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE INKITATION, NOTE THAT PVA DEGRADES IN WATER.

EYE PROTECTION:

LHEMICAL GOGGLES. IF SPUASHING MAY OCCUR ON DURING SPRAY OPERATIONS WEAR A FACE SHIELD, UNLESS A FULL FACE PIECE RESPIRATOR IS USED. DO NOT WEAR CONTACT LENSES AS THEY MAY CONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE FROM CONTACT WITH LIQUID AND SPRAY MIST.

BOILING RANGE: 212F/100C - 2980+/-60 C

SPECIFIC GRAVITY (H20=1): 1.1459 EVAPORATION RATE: SLOWER THAN ETHE

VAPOR DENSITY: LIGHTER THAN AIR

COATING V.O.C.: 7 g/l

COATING V.O.C.: 0.06 lb/gl MATERIAL V.O.C.: 0.04 lb/gl

MATERIAL V.O.C.: 4 g/l

SOLUBILITY IN WATER: SOLUBLE

APPEARANCE: HIGHLY THIXOTROPIC LIQUID

ODOR: AMMONIA ODOR

STABILITY:

STABLE

CONDITIONS TO AVOID

EXTREMELY HOT OR COLD TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRUNG UNIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED ONYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

THERMAL DECOMPOSITION MAY YIELD ACTYLIC MONOMER, CARSON MONOXIDE AND CARSON DIOXIDE. UNIDENTIFIED ORGANIC COMPOUNDS IN FUMES AND SMOKE MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

TLL NOT DOCUR

ERRECTION 11 TOXICOLOGICAL INFORMATION CONSTRUCTION CONTROL SECTION 11 TOXICOLOGICAL INFORMATION CONTROL CONTR

EYE:

EYE İRRITATION-RABBIT; MODERATE

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR DIETHYLENE GLYCOL MONBUTYL BIHER.

SKIN:

SKIN IRRITATION-RABBIT: SLIGHT SKIN IRRITATION-GUINEA PIG: SLIGHT

DERMAL LD-50 (RABBIT): 2764MG/KG

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR DISTRIYLENE CLYCOL MONBUTYL ETHER.

INGESTION:

OFAL LD-50 (PAT): 7292 MG/KG.

OKAL LD-50 (MOUSE): 2406 MG/KC.

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR DIETHYLENE GLYCOL MONBUTYL ETHER.

INHALATION:

INHALATION LC-50: NOT AVAILABLE.

INFORMATION IS BASED ON THE TOXICITY PROPILES FOR DIETHYLENE GLYCOL MOMBUTYL STHER.

SUBCHRONIC:

HEADACHE, NAUSEA, ABDUMINAL PAIN AND IRRITATION OF THE NOSE, THROAT AND LUNGS, SKIN AND EYE IRRITATION.

CHRONIC/CARCINOGENICITY:

PRODUCT INGREDIENTS ARE AT OR LESS THAN do minimia Levels or are not considered to be "Arcinogens by the international agency for research on cancer (larc). The national balcology program (ntp) or by the occupational safety and health administration (osha).

TERATOLOGY:

DERMAL STUDY (RABBIT): NOEL FOR MATERNAL TOXICITY = 1000 MG/KG/DAY (HIGHEST DOSE TESTED);

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NOEL FOR DEVELOPMENTAL TOXICITY - 1000 MG/KG/DAY (HIGHEST DOSE TESTED).

ORAL STUDY (RAT): LOEL FOR MATERNAL TOXICITY = 5MS/KG; NOEL FOR MATERNAL TOXICITY = NOT ESTABLISHED; NOEL FOR DEVELOPMENTAL TOXICITY = 633 MG/KG/DAY (HIGHEST DOSE TESTED). INFORMATION BASED ON THE TOXICITY PROFILES FOR DISTHYLENE GLYCOL MONOBUTYL ETHER.

REPRODUCTION:

DERMAL BYUDY (13-WEEK, RAT): NOEL FOR MATERNAL/PATERNAL TOXICITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED); NOEL FOR MATERNAL/PATERNAL FERTILITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED; NOEL FOR DEVELOPMENTAL TOXICITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED.

ORAL SYUDY (RAT): NOEL FOR MATERNAL/PATERNAL FERTILITY = 1000 MG/KG/DAY (HIGHEST DOSE TESTED); NOABL FOR EMBRYO/FERTOTOXICITY = 1000 MG/KG/DAY.

INFORMATION BASED ON THE TOXICITY PROFILES FOR DIETHYLENE GLYCOL MONOBUTYL ETHER.

MUTAGENICITY:

NO ANIMAL DATA AVAILABLE

ECOTOXICOLOGICAL INFORMATION:

INHERSHT BIODEGRADABILITY (OECD 302 B): THIS TYPE OF PRODUCT IS NOT BIODEGRADABLE BUT READILY BIORIJMINABLE.

EMULSION POLYMER BIODECRADATION IS GENERALLY CONSIDERED LIMITED AND DEPENDENT ON POLYMER SIZE AND ORIGIN OF TREATMENT SLUDGE. HOWEVER, MOST OF THESE POLYMERS READILY ABSORB ONTO WATER TREATMENT SLUDGE AND THEREFORE WOULD BE BIOELIMINABLE FROM EFFLUENTS.

ACTIVATED SLADGE RESPIRATORY INHIBITION (OECD 209): >100MG/L (NON-INHIBITING)

THE INFORMATION SHOWN IS BASED ON PROFILES OF COMPOSITIONALLY SIMILAR MATERIALS.

ALGAE (SELENASTRUM CAPRICORNUTUM), 72 HOUR ECSO: >100 PPM (NON-TOXIC) RAINBUW TROUT (ONCORHYNCHUS MYKIBS), 96 HOUR LCSO: >100 PPM (NON-TOXIC) DADHNIA MAGNA, 48 HOUR ECSO: >100 PPM (NON-TOXIC) MICROTOX, 15 MINUTE ECSO: >300 PPM (NON-TOXIC).

THE ABOVE DATA ARE FOR A COMPOSITIONALLY SIMILAR MATERIAL.

CHEMICAL FATE INFORMATION:

NO DATA.

INSTRUCTIONS:

COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE THE CLEAR SUPERNATANT AND PLUSH TO A CHEMICAL SEVER. INCINERATE LIQUID AND CONTAMINATED SOLIDS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

SHIPPING INFORMATION:

DOT INFORMATION - 49 CFR 172.101 DOT DESCRIPTION: NOT REGULATED

(NOT MEANT TO BE ALL INCLUSIVE-SELECTED REGULATIONS REPRESENTED)

US REGULATIONS:

STATUS OF SUBSTANCES LISTS:

THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CEILING LEVELS (WEIGHT *) TO BE USED FOR CALCULATIONS FOR REGULATIONS.

A REPORTABLE QUANTITY IS A QUANTITY OF A HAZARDOUS SUBSTANCE THAT TRIGGERS REPORTING REQUIREMENTS UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT(CERCLA). IF A SPILL OF A SUBSTANCE EXCREDS IT'S REPORTABLE QUANTITY(RQ) IN CFR 302.3 TABLE 40 302.4 APPENDIX A & 302.4 APPENDIX B. THE RELEASE MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT (808) 424-8802. THE STATE EMERGENCY RESPONSE COMMISSION (BERC), AND COMMUNITY EMERGENCY COMPOUNTORS LIKELY TO BE APPROTED.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

MMONIA CASH7664-41-7 RQ 100 #

"UPPRIVING AMENDMENTS AND REAUTHORIZATION ACT OF 1986(BARA) TITUS III

REQUIRES EMERGENCY PLANNING BASED ON THE THRESHOLD QUANTITIES (TPQ'S)

AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355

APPENDIX ALB EXTREMELY HAZARDOUS SUBSTANCES. THE EMERGENCY PLANNING AND RELEASE
REQUIRMMENTS OF 40 CFR 355 APPLY TO ANY ENCILITY AT WHICH THERE IS PRESENT AN

AMOUNT OF ANY EXTREMELY HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF IT'STHRESHOLD PLANNING QUATITY.

MATERIAL SAFETY DATA SHEET

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COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: AMMONIA CAS#7664-41-7 RO: 100# TPO: 500#

EPCKA 40 CFR 372 (SECTION 313 REQUIRES EPA AND THE STATES TO ANNUALLY COLLECT DATA ON RELEASES OF CERTAIN TOXIC MATERIALS FROM INDUSTRIAL FACILITIES, AND MAKE THE DATA AVAILABLE TO THE PUBLIC IN THE TOXICS RELEASE INVENTORY (TRI), THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED OR

OR COMPILED FOR THIS MATERIAL.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE: SEE SECTION II

THE COMPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY, THIS MIXTURE MAG NOT BEEN TESTED AS A WIJOLR TO DETERMINE WHETHER THE MIXTURE IS A HEALTH HAZARD. THE MIXTURE SHALL BE ASSUMED TO PRESENT THE SAME HEALTH HAZARDS AS DO THE COMPONENTS WHICH COMPRISE ONE PERCENT (BY WEIGHT OR VOLUME) OR GREATER OF THE MIXTURE, EXCEPT THAT THE MIXTURE SHALL BE ASSUMED TO PRESENT A CARCINOGENIC HAZARD IF IT HAS A COMPONENT IN CONCENTRATIONS OF 0.1 PERCENT OR GREATER WHICH IS CONSIDERED TO BE A CARCINOGEN. FOR A LIST OF HAZARDOUS INGREDIENTS:

SEE SECTION II

THE REMAINING PERCENTAGE OF UNSPECIFIED INCREDIENTS, IF ANY, ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEFOAMERS, WETTING ACENTS, REGINS, DRYERS, ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

DOSS NOT CLASSIFY AS HAZARDOUS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

NONE KNOWN

EINECS:

ALL OF THE COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EINECS INVENTORY OR ARE EXEMPT FROM NOTIFICATION REQUIREMENTS.

AIMONIA CAS#7664-41-7 MINECS#:231-635-3 ALCIUM CARRONATE CA9#471-34-1 EINECS#:207-439-9 SCBUTANE CAS#75-28-5 EINECS#:200-857-2 ..ICA CAS#12001,-26-2 EINECS#:310-127-6

STATE REGULATIONS:

CALIFORNIA:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986. THIS PRODUKT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA

A: CAUSE CANCER:

MICA, CAS#12001-26-2 (AIRBORNE PARTICLES OF RESPIRABLE SIZE) IN ADDITION TO THE ABOVE NAMED CHEMICALS, IF ANY, THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINGGENS OR REPRODUCTIVE TOXICANTS.

B: CAUSE REPRODUCTIVE HARM:

NONE KNOWN

FLORIDA:

LISTED AS TOXIC AMMONIA CAS# 7664 41-7 MICA CAS# 12001-26-2

MICHIGAN:

иоив киоми

IINNESOTA:

KMONTA CAS#7664-41-7

TOSTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST:

CODES: ANOS HAZAROS: **CARNINGEN7** NO

MATERIAL SAPETY DATA SHEET

FLASHING GRADE COATING

- *C* Carcinogen Poses a risk of cancer in humans.
- *N. Neurotoxin Poses a risk of neurotoxic effects in humans,
- ·m· Mutagin Poses a risk of mutagenesis in humans.
- *E* Extraordinarily Hazardous Substances that have a low lethal are designated carcinogons.
- *T1* Teratogen Sufficient evidence of teratogenic risk in humans.
- *T2* Teratogen Limited evidence of teratogonic risk in humans.

Footnote Designations

- Fl Elemental Metals and Alloys
- F2 Achestos
- F3 Asphalt
- F4 Coal Tar Pitch Volatile
- FS Dust Producing Materials
- F6 EPA Extremely Haz. Substances
- F7 Volatile Organic Substances (VCC's)
- F8 Carola Hazardous Substances
- FO Toxic Chemical Release Substances

MIC: Codea

-- REQUIRES FURTHER REPORTING

MN. Codes

- A American Conference of Governmental Industrial Hygicalsts (ACGIH)
- I American Industrial Hygiene Association (AIHA)
- N National Institute for Occupational Safety and Health (NIOSH)
- O Occupational Safety and Health Administration (OSMA)
- R International Agency for Research on Cancer (TARC)
- S OSHA proposed standards.
- T National Toxicology Program (NTP)

Hazard Designations

- T: Listed as carcinogen or potential by TARC or MTP
- F: Not listed as carcinogen or potential carcinogen

asphyxiant: Apphyxiant

dust: Airborne particulate exposure hazard

fume: Small solid particles formed by the condensation of vapors of solid materials

skin: Potential hazard from absorption through skin contact

dose (LD(50)) or

- PA: CODES IDENTIFY CHEMICALS AS:
- -- (Basic Hazard)
- E (ENVIROMENTAL HAZARD)
- * ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD
- 5 (SPECIAL HAZARD)

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MATERIAL SAPETY DATA SHEET

FLASHING GRADE COATING

CABCIUM CARBONATE CAS#471-34-1

LISTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST:

CODES:

A

HAZARDS: CARNINGGEN? NO

MASSACHUSETTS

AMMONIA ISOBUTANE

CAS#75-28-5

CAS#7664-41-7 SUBSTANCE CODES 2,4,5,6.*E,F6,F8,F9

MICA

SUBSTANCE CODES:6 MAS#12001-26-2 SUBSTANCE CODES:2,4

PENNYSYLVANIA:

ALUMINUM (ALUMINUM OXIDE)

CAS#7664-41-7 CAS#1344-28-1 CODETE

EDIXOID MUINATIT

CAS#13463-67-7

CODE: E CODE: --

NEW JERSEY:

AMMONIA CAS#7664-41-7

NEW JERSEY EXTRAORDINARYLY HAZARDOUS SUBSTANCE

EDA THRESHOLD: 10,000 NJ THRESHOLD:5300

ISOBUTANE (ENCAPSULATED IN POLYMER) CAS#76-28-5

NEW JERSEY RIK HAZAKDOUS SUBSTANCE

NEW YORK:

AMMONIA CAS#7664-41-7 RQ--AIR 100, RQ--LAND 100

WASHINGTON:

AMMONIA CAS#7664-41-7

WASHINGTON AIR CONTAMINANT:

AWT

mg/Cubic Meter 1.0

STEL CEILING 25 35 UNK

mdd

27 UNK

SKIN: UNK MICA.

CAS# 12001-26-2

WASHINGTON AIR CONTAMINANT:

metet

mg/Cubic Meter *

ባመል STEL UNK UNK UNK

UNK

CHILING SKIN: UNK

UNK

CODES DEFINED:

CERCLA: Note: The RQ is in pounds for chemicals that are CERCLA hazardous substances. A "##" entry in the RQ column indicates that a stasutory one-pound RQ applies, but the Agency may adjust the statutory RQ in a tuture rulemaking. A "*** entry in the RQ column no RQ is boing assigned to the generic or broad class.

A "A" following the RQ indicates that no release reporting is required if the diameter of the pieces of the solid metal released is 100 micrometers (0.004 inches) or more If a final RQ has not been assigned under CERCIA to any extremely hazardous chemical listed under Section 301 of SARA Title III, a statutory RQ of one pound applies for Section 304 reporting. This product lists the one-pound statutory RQ for extremely hazardous substances not listed order CERCLA.

A "+" following an entry means the chemical is listed as a hazardous air pollutant under Section 112(b) of the Clean Air Act. A statutory RQ of 1 lb. applies until RQs are adiuctec.

STATES:

Codes

- 1 IARC(Int.Agency for Research on Cancer)
- Z OSHA 29 CFR 1910.1000, sub part Z 3 NTP National Toxicology Program
- 4 ACCIH American Conference of Gov. Ind. Hygienists (TLV)
- S NI'PA49 HAZ CHEM
- 6 NFPA325M FIRE HAZAROS
- 7 CAG Carcinogen Assessment Croup
- 8 EPA Environmental Protection Agency posticides (40 CFR 162.30)
- 9 NCI National Cancer Institutes substances
- Hazard Designations -



according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/14/2014

Version: 1.0

TION 1: IDENTIFICATION

...oduct Identifier Product Form: Mixture

Product Name: RV Wash and Wax

Product Code: 715XX

Intended Use of the Product

Cleaner

Name, Address, and Telephone of the Responsible Party

Company Star brite Inc.

4041 SW 47th Avenue Fort Lauderdale, FL 33314

(954)587-6280 www.starbrite.com

Emergency Telephone Number

Emergency number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit, 2 H315 Eye Dam. 1 H318

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements (GHS-US): P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see Section 4).

P332+P313 - If skin irritation occurs: Get medical advice/attention. ! P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container according to local, regional, national, territorial,

provincial, and international regulations.

Other Hazards

Aquatic Acute 3 H402

H402 - Harmful to aquatic life

P273 - Avoid release to the environment.

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) Not available.

บัง/14/2014 FIOKO-CC

EN (English US)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

bstances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Sulfuric acid, mono-C10-16-alkyl esters,	(CAS No) 68585-47-7	1-5	Acute Tox. 4 (Oral), H302
sodium salts			Skin Irrit. 2, H315
			Eye Dam. 1, H318
Poly(oxy-1,2-ethanediyl), .alphasulfo-	(CAS No) 9004-82-4	0.5-1.5	Acute Tox. 4 (Oral), H302
.omega(dodecyloxy)-, sodium salt			Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
-			Aquatic Chronic 2, H411
Ammonium chloride	(CAS No) 12125-02-9	0.5-1.5	Acute Tox. 4 (Oral), H302
			Eye Irrit. 2A, H319
1-Propanaminium, 3-amino-N-	(CAS No) 61789-40-0	0.5 - 1.5	Aquatic Acute 1, H400
(carboxymethyl)-N,N-dimethyl-, N-coco acyl			Skin Corr. 1B, H314
derivatives, hydroxides, inner salts			Eye Irrit. 2A, H319
Dimethylol-5,5-dimethylhydantoin	(CAS No) 6440-58-0	0.1-1	Acute Tox. 4 (Oral), H302

Contains trace ammounts of 1,4-Dioxane (CAS No) 123-91-1

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where neccesarry due to varying composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where issible).

innalation: When symptoms occur: go into open air and ventilate suspected area. If you feel unwell, seek medical advice.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 30 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. Causes skin irritation.

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. **Chronic Symptoms:** None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

pactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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Firefighting Instructions: Use water spray or fog for cooling exposed containers. Avoid release to the environment. Do not allow un-off from fire fighting to enter drains or water sources.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Silicon oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Dispose in a safe manner in accordance with local/national regulations.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

recautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s) Cleaner.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ammonium chloride (12125	-02-9)		1
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³	
USA ACGIH	ACGIH STEL (mg/m³)	20 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m ³	
USA NIOSH	NIOSH REL (STEL) (mg/m³)	20 mg/m³	
Alberta	OEL STEL (mg/m³)	20 mg/m ³	
Alberta	OEL TWA (mg/m³)	10 mg/m ³	
British Columbia	OEL STEL (mg/m³)	20 mg/m³	
British Columbia	OEL TWA (mg/m³)	10 mg/m ³	
Manitoba	OEL STEL (mg/m³)	20 mg/m ³	1
Manitoba	OEL TWA (mg/m³)	10 mg/m³	
New Brunswick	OEL STEL (mg/m³)	20 mg/m ³	
New Brunswick	OEL TWA (mg/m³)	10 mg/m ³	
ewfoundland & Labrador	OEL STEL (mg/m³)	20 mg/m³	
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m ³	1

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Mova Scotia	OEL STEL (mg/m³)	20 mg/m ³
va Scotia	OEL TWA (mg/m³)	10 mg/m ³
Nunavut	OEL STEL (mg/m³)	20 mg/m ³
Nunavut	OEL TWA (mg/m³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m ³
Ontario	OEL STEL (mg/m³)	20 mg/m³
Ontario	OEL TWA (mg/m³)	10 mg/m³
Prince Edward Island	OEL STEL (mg/m³)	20 mg/m ³
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³
Québec	VECD (mg/m³)	20 mg/m ³
Québec	VEMP (mg/m³)	10 mg/m³
Saskatchewan	OEL STEL (mg/m³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m ³
Yukon	OEL STEL (mg/m³)	20 mg/m ³
Yukon	OEL TWA (mg/m³)	10 mg/m ³
1.4 Diagram (122.01.1)		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1,4-Dioxane (123-91-1)	ACCULTULA (100
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	360 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	3.6 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (ppm)	1 ppm
USA IDLH	US IDLH (ppm)	500 ppm
Alberta	OEL TWA (mg/m³)	72 mg/m³
perta	OEL TWA (ppm)	20 ppm
tish Columbia	OEL TWA (ppm)	20 ppm ,
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL TWA (mg/m³)	90 mg/m ³
New Brunswick	OEL TWA (ppm)	25 ppm ,
Newfoundland & Labrador	OEL TWA (ppm)	20 ppm i
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (mg/m³)	360 mg/m³ (technical grade)
Nunavut	OEL STEL (ppm)	100 ppm (technical grade)
Nunavut	OEL TWA (mg/m³)	90 mg/m³ (technical grade)
Nunavut	OEL TWA (ppm)	25 ppm (technical grade)
Northwest Territories	OEL STEL (mg/m³)	360 mg/m³ (technical grade)
Northwest Territories	OEL STEL (ppm)	100 ppm (technical grade)
Northwest Territories	OEL TWA (mg/m³)	90 mg/m³ (technical grade)
Northwest Territories	OEL TWA (ppm)	25 ppm (technical grade)
Ontario	OEL TWA (ppm)	20 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Québec	VEMP (mg/m³)	72 mg/m³
Québec	VEMP (ppm)	20 ppm
Saskatchewan	OEL STEL (ppm)	30 ppm
Saskatchewan	OEL TWA (ppm)	20 ppm
Yukon	OEL STEL (mg/m³)	180 mg/m³ (technical grade)
Yukon	OEL STEL (ppm)	50 ppm (technical grade)
Yukon	OEL TWA (mg/m³)	180 mg/m³ (technical grade)
kon	OEL TWA (ppm)	50 ppm (technical grade)

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Fxposure Controls

ppropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Safety glasses. Face shield. Gloves.







Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves. Eye Protection: Chemical goggles, safety glasses or face shield. Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed

established Occupational Exposure Limits.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : Blue

Odor Characteristic
Odor Threshold : Characteristic

pH : 6.5

Relative Evaporation Rate (butylacetate=1) Not available **lelting Point** Not available rreezing Point Not available **Boiling Point** 100 °C (> 212°F) Flash Point > 100 °C (> 212°F) Auto-ignition Temperature Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available

Lower Flammable Limit : Not available
Upper Flammable Limit : Not available
Vapor Pressure : Not available
Relative Vapor Density at 20 °C : Not available

Specific Gravity/Relative Density : 1.02

Solubility : Soluble in water Partition coefficient: n-octanol/water : Not available Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

compatible Materials: Strong acids. Strong bases. Strong oxidizers.

azardous Decomposition Products: Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen oxides. Ammonia. Sulfur oxides.

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SECTION 11: TOXICOLOGICAL INFORMATION

formation on Toxicological Effects - Product

Acute Toxicity: Not classified. LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes skin irritation.

pH: 6.5

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 6.5

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available. **Carcinogenicity:** Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ammonium chloride (12125-02-9)		
50 Oral Rat	1410 mg/kg	1
ruly(oxy-1,2-ethanediyl), .alphasulfoome	ga(dodecyloxy)-, sodium salt (9004-82-4)	\$
LD50 Oral Rat	1600 mg/kg	1 1 1
Dimethylol-5,5-dimethylhydantoin (6440-58	i-0)	ı
LD50 Oral Rat	2 - 5 g/kg	1
ATE US (oral)	2,000.00 mg/kg body weight	1
1-Propanaminium, 3-amino-N-(carboxymet)	nyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxide	s, inner salts (61789-40-0)
LD50 Oral Rat	4900 mg/kg	
Sulfuric acid, mono-C10-16-alkyl esters, sod		
Sulfuric acid, mono-C10-16-alkyl esters, sod LD50 Oral Rat		1
<u> </u>	ium salts (68585-47-7)	
LD50 Oral Rat	ium salts (68585-47-7) > 2000 mg/kg	
LD50 Oral Rat ATE US (oral)	ium salts (68585-47-7) > 2000 mg/kg	
LD50 Oral Rat ATE US (oral) 1,4-Dioxane (123-91-1)	ium salts (68585-47-7) > 2000 mg/kg 500.00 mg/kg body weight	

1,4-Dioxane (123-91-1)	
IARC Group	2B
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human
	Carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

sology - General: Harmful to aquatic life.

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Ammonium chloride (12125-02-9)	
250 Fish 1	209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
Poly(oxy-1,2-ethanediyl), .alphasul	foomega(dodecyloxy)-, sodium salt (9004-82-4)
EC50 Other Aquatic Organisms 1	3.12 mg/l (Species Ceriodaphnia, exposure time: 48 hr)
Dimethylol-5,5-dimethylhydantoin (6440-58-0)
LC50 Fish 1	514 mg/l (Freshwater [96h static] Species: Oncorhynchus mykiss)
1-Propanaminium, 3-amino-N-(carbo	exymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)
LC50 Fish 1	1 (1.0 - 10.0) mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	6.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1 (1.0 - 10.0) mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC 50 Fish 2	2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
1,4-Dioxane (123-91-1)	
LC50 Fish 1	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	163 mg/l (Exposure time: 48 h - Species: water flea [Static])
LC 50 Fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])

Persistence and Degradability

RV Wash and Wax	
Persistence and Degradability	Not established.

Bioaccumulative Potential

RV Wash and Wax		
Bioaccumulative Potential	Not established.	· · · · · · · · · · · · · · · · · · ·
1,4-Dioxane (123-91-1)		
BCF fish 1	0.2 - 0.7	
ng Pow	-0.42	

lobility in Soil Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

UN Number Not regulated for transport.

UN Proper Shipping Name Not regulated for transport.

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Transport Hazard Class(es)

Additional Information Not available.

Transport by sea Not regulated for transport.

Air transport Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

RV Wash and Wax	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Ammonium chloride (12125-02-9)	
Listed on the United States TSCA (Toxic Substances	Control Act) inventory
4-Dioxane (123-91-1)	

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ti-ted on SARA Section 313 (Specific toxic chemical listings)		1,
RA Section 313 - Emission Reporting	0.1 %	

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Dimethylol-5,5-dimethylhydantoin (6440-58-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts (68585-47-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

1,4-Dioxane (123-91-1)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.

Ammonium chloride (12125-02-9)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Cátegory 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
 - S. Massachusetts Oil & Hazardous Material List Reportable Quantity
 - S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits STELs
 - S. Vermont Permissible Exposure Limits TWAs
 - S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

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Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

- S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts (68585-47-7)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

1,4-Dioxane (123-91-1)

- U.S. California SCAQMD Toxic Air Contaminants Carcinogens
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California SDAPCD Toxic Air Contaminants Carcinogenic Impacts Must Be Calculated
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Groundwater Quality Standards
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Maine Chemicals of High Concern
 - S. Massachusetts Allowable Ambient Limits (AALs)
 - S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Drinking Water Guidelines
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Skin Designations
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Skin Designations
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Control and Prohibition of Air Pollution by Toxic Substances
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
 - S. New Jersey Special Health Hazards Substances List
 - 5. New York Occupational Exposure Limits Skin Designations
- U.S. New York Occupational Exposure Limits TWAs

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- II.S. New York Priority Chemical Avoidance List
 - .S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Air Pollutants Unit Risk Factors
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Oregon Permissible Exposure Limits Skin Designations
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits Skin Designations
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Vermont Permissible Exposure Limits Skin Designations
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Dangerous Waste Dangerous Waste Constituents List
- U.S. Washington Dangerous Waste Discarded Chemical Products List
- U.S. Washington Permissible Exposure Limits Skin Designations
 - S. Washington Permissible Exposure Limits STELs
- ు.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Class B Division 2 - Flammable Liquid

Canadian Regulations

MYHMIS Classification

Canadian Kegulations	•	
RV Wash and Wax		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	Ī
1		
Ammonium chloride (1212	5-02-9)	
Listed on the Canadian DSL	(Domestic Substances List) inventory.	
Listed on the Canadian Ingr	redient Disclosure List	
IDL Concentration 1 %		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
1,4-Dioxane (123-91-1)		
Listed on the Canadian DSL	(Domestic Substances List) inventory.	
Listed on the Canadian Ingr	redient Disclosure List	
IDL Concentration 0.1 %		"

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Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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noly(oxy-1,2-ethanediyl),	.alphasulfoomega(dodecyloxy)-, sodium salt (9004-82-4)			
isted on the Canadian DS	L (Domestic Substances List) inventory.			
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
Class E - Corrosive Material				

Dimethylol-5,5-dimethylhydantoin (6440-58-0)				
Listed on the Canadian DSL (Domestic Substances List) inventory.				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)				
Listed on the Canadian DSL (Domestic Substances List) inventory.				
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects				
Class E - Corrosive Material				

Sulfuric acid, mono-C10-16-a	alkyl esters, sodium salts (68585-47-7)		
Listed on the Canadian DSL (Domestic Substances List) inventory.			
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects			

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation's (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 07/22/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1,			
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2			
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 31			
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category'2			
Asp. Tox. 1	Aspiration hazard Category 1			
Eye Dam. 1	Serious eye damage/eye irritation Category 1			
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A			
Skin Corr. 1B	Skin corrosion/irritation Category 1B			
Skin Irrit. 2	Skin corrosion/irritation Category 2			
H302	Harmful if swallowed			
H304	May be fatal if swallowed and enters airways			
H314	Causes severe skin burns and eye damage			
H315	Causes skin irritation			
H318	Causes serious eye damage			
H319	Causes serious eye irritation			
H400	Very toxic to aquatic life			
H401	Toxic to aquatic life			
H402	Harmful to aquatic life			
H411	Toxic to aquatic life with long lasting effects			

NFPA Health Hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA Fire Hazard : 0 - Materials that will not burn.

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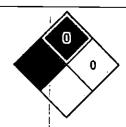
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NFPA Reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Party Responsible for the Preparation of This Document Star brite Inc. (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2

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Version: 1.0

CTION 1: IDENTIFICATION

. roduct Identifier Product Form: Mixture

Product Name: RV Wash and Wax

Product Code: 715XX

Intended Use of the Product

Cleaner

Name, Address, and Telephone of the Responsible Party

Company Star brite Inc. 4041 SW 47th Avenue Fort Lauderdale, FL 33314 (954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency number : US: (800) 424-9300; International: (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315 Eye Dam. 1 H318 **Label Elements GHS-US Labeling**

Hazard Pictograms (GHS-US)





Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements (GHS-US) : P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see Section 4).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container according to local, regional, national, territorial,

provincial, and international regulations.

Other Hazards

Aquatic Acute 3 H402

H402 - Harmful to aquatic life

P273 - Avoid release to the environment.

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) Not available.

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SECTION 3. COMPOSITION	/INFORMATION ON INGREDIENTS	
CHON 5. CONPOSITION	/INFORMATION ON INGREDIENTS	

ubstances			
Name	Product identifier	% (w/w)	Classification (GHS-US)
Sulfuric acid, mono-C10-16-alkyl esters,	(CAS No) 68585-47-7	1-5	Acute Tox. 4 (Oral), H302
sodium salts			Skin Irrit. 2, H315
			Eye Dam. 1, H318
Poly(oxy-1,2-ethanediyl), .alphasulfo-	(CAS No) 9004-82-4	0.5-1.5	Acute Tox. 4 (Oral), H302
.omega(dodecyloxy)-, sodium salt			Skin Irrit. 2, H315
			Eye Dam. 1, H318
•			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
	<u> </u>	<u> </u>	Aquatic Chronic 2, H411
Ammonium chloride	(CAS No) 12125-02-9	0.5-1.5	Acuté Tox. 4 (Oral), H302
			Eye Irrit. 2A, H319
1-Propanaminium, 3-amino-N-	(CAS No) 61789-40-0	0.5 - 1.5	Aquatic Acute 1, H400
(carboxymethyl)-N,N-dimethyl-, N-coco acyl			Skin Corr. 1B, H314
derivatives, hydroxides, inner salts			Eye Irrit. 2A, H319
Dimethylol-5,5-dimethylhydantoin	(CAS No) 6440-58-0	0.1-1	Acute Tox. 4 (Oral), H302

Contains trace ammounts of 1,4-Dioxane (CAS No) 123-91-1

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where neccesarry due to varying composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where ossible).

inhalation: When symptoms occur: go into open air and ventilate suspected area. If you feel unwell, seek medical advice.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 30 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. Causes skin irritation.

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. **Chronic Symptoms:** None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

eactivity: Hazardous reactions will not occur under normal conditions.

...dvice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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Firefighting Instructions: Use water spray or fog for cooling exposed containers. Avoid release to the environment. Do not allow un-off from fire fighting to enter drains or water sources.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Silicon oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Dispose in a safe manner in accordance with local/national regulations.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

recautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s) Cleaner.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters Ammonium chloride (12125-02-9) **USA ACGIH** ACGIH TWA (mg/m³) 10 mg/m³ **USA ACGIH** ACGIH STEL (mg/m³) 20 mg/m³ **USA NIOSH** NIOSH REL (TWA) (mg/m3) 10 mg/m³ **USA NIOSH** NIOSH REL (STEL) (mg/m³) 20 mg/m³ Alberta OEL STEL (mg/m³) 20 mg/m³ Alberta OEL TWA (mg/m³) 10 mg/m³ **British Columbia** OEL STEL (mg/m³) 20 mg/m³ British Columbia OEL TWA (mg/m³) 10 mg/m³ Manitoba OEL STEL (mg/m³) 20 mg/m³ Manitoba OEL TWA (mg/m3) 10 mg/m3 **New Brunswick** OEL STEL (mg/m³) 20 mg/m³ New Brunswick OEL TWA (mg/m3) 10 mg/m³ Newfoundland & Labrador OEL STEL (mg/m³) 20 mg/m³ Newfoundland & Labrador OEL TWA (mg/m3) 10 mg/m³

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* ova Scotia	OEL STEL (mg/m³)	20 mg/m³	
va Scotia	OEL TWA (mg/m³)	10 mg/m ³	
Nunavut	OEL STEL (mg/m³)	20 mg/m ³	
Nunavut	OEL TWA (mg/m³)	10 mg/m³	
Northwest Territories	OEL STEL (mg/m³)	20 mg/m ³	
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³	
Ontario	OEL STEL (mg/m³)	20 mg/m³	
Ontario	OEL TWA (mg/m³)	10 mg/m³	
Prince Edward Island	OEL STEL (mg/m³)	20 mg/m³	
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³	
Québec	VECD (mg/m³)	20 mg/m³	
Québec	VEMP (mg/m³)	10 mg/m³	- ,
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³	
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³	
Yukon	OEL STEL (mg/m³)	20 mg/m³	
Yukon	OEL TWA (mg/m³)	10 mg/m³	
	1 (1118/1111)		
1,4-Dioxane (123-91-1)			
USA ACGIH	ACGIH TWA (ppm)	20 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	360 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	3.6 mg/m ³	
USA NIOSH	NIOSH REL (ceiling) (ppm)	1 ppm	
USA IDLH	US IDLH (ppm)	500 ppm	
Alberta	OEL TWA (mg/m³)	72 mg/m³	
perta	OEL TWA (ppm)	20 ppm	
tish Columbia	OEL TWA (ppm)	20 ppm	
Manitoba	OEL TWA (ppm)	20 ppm	
New Brunswick	OEL TWA (mg/m³)	90 mg/m ³	
New Brunswick	OEL TWA (ppm)	25 ppm	
Newfoundland & Labrador	OEL TWA (ppm)	20 ppm	
Nova Scotia	OEL TWA (ppm)	20 ppm	
Nunavut	OEL STEL (mg/m³)	360 mg/m³ (technical grade)	
Nunavut	OEL STEL (ppm)	100 ppm (technical grade)	
Nunavut	OEL TWA (mg/m³)	90 mg/m³ (technical grade)	
Nunavut	OEL TWA (ppm)	25 ppm (technical grade)	
Northwest Territories	OEL STEL (mg/m³)	360 mg/m³ (technical grade)	
Northwest Territories	OEL STEL (ppm)	100 ppm (technical grade)	
Northwest Territories	OEL TWA (mg/m³)	90 mg/m³ (technical grade)	
Northwest Territories	OEL TWA (mg/m)		
Ontario	OEL TWA (ppm)	25 ppm (technical grade)	
Prince Edward Island	OEL TWA (ppm)	20 ppm	-
Québec	VEMP (mg/m³)	20 ppm	-
Québec		72 mg/m³	
	VEMP (ppm)	20 ppm	
Saskatchewan	OEL STEL (ppm)	30 ppm	-
Saskatchewan	OEL TWA (ppm)	20 ppm	
Yukon	OEL STEL (mg/m³)	180 mg/m³ (technical grade)	<u> </u>
Yukon	OEL STEL (ppm)	50 ppm (technical grade)	
l vukon	OEL TWA (mg/m³)	180 mg/m³ (technical grade)	
kon	OEL TWA (ppm)	50 ppm (technical grade)	

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Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Safety glasses. Face shield, Gloves.







Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves. Eye Protection: Chemical goggles, safety glasses or face shield. Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed

established Occupational Exposure Limits.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>ln</u>	<u>forma</u> tion	on Basic	: Physica	l and	Chemical	Properties.

Physical State : Liquid
Appearance : Blue

Odor : Characteristic
Odor Threshold : Not available

pH : 6.5

Relative Evaporation Rate (butylacetate=1) Not available **Relting Point** Not available **Freezing Point** Not available **Boiling Point** 100 °C (> 212°F) Flash Point > 100 °C (> 212°F) **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available

Lower Flammable Limit : Not available
Upper Flammable Limit : Not available
Vapor Pressure : Not available
Relative Vapor Density at 20 °C : Not available

Specific Gravity/Relative Density : 1.02

Solubility : Soluble in water Partition coefficient: n-octanol/water : Not available

Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact

Explosion Data - Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

icompatible Materials: Strong acids. Strong bases. Strong oxidizers.

lazardous Decomposition Products: Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen oxides. Ammonia. Sulfur oxides.

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CTION 11: TOXICOLOGICAL INFORMATION

formation on Toxicological Effects - Product

Acute Toxicity: Not classified. LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes skin irritation.

pH: 6.5

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 6.5

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available. Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ammonium chloride (12125-02-9)		
50 Oral Rat	1410 mg/kg	
roly(oxy-1,2-ethanediyl), .alphasulfoom	ega(dodecyloxy)-, sodium salt (9004-82-4)	
LD50 Oral Rat	1600 mg/kg	
Dimethylol-5,5-dimethylhydantoin (6440-5	8-0)	
LD50 Oral Rat	2 - 5 g/kg	
ATE US (oral)	2,000.00 mg/kg body weight	
1-Propanaminium, 3-amino-N-(carboxyme	thyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)	
LD50 Oral Rat	4900 mg/kg	
Sulfuric acid, mono-C10-16-alkyl esters, so	dium salts (68585-47-7)	
LD50 Oral Rat	> 2000 mg/kg	
ATE US (oral)	500.00 mg/kg body weight	
1,4-Dioxane (123-91-1)		
LD50 Dermal Rabbit	7600 μl/kg	
LC50 Inhalation Rat	46 g/m³ (Exposure time: 2 h)	
ATE US (dust, mist)	46.00 mg/l/4h	
1,4-Dioxane (123-91-1)		
IARC Group	2B	
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen.	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

ology - General: Harmful to aquatic life,

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Ammonium chloride (12125-02-9)	
C50 Fish 1	209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
Poly(oxy-1,2-ethanediyl), .alphasulfo-	omega(dodecyloxy)-, sodium salt (9004-82-4)
EC50 Other Aquatic Organisms 1	3.12 mg/l (Species Ceriodaphnia, exposure time: 48 hr)
Dimethylol-5,5-dimethylhydantoin (64	40-58-0)
LC50 Fish 1	514 mg/l (Freshwater [96h static] Species: Oncorhynchus mykiss)
1-Propanaminium, 3-amino-N-(carboxy	ymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)
LC50 Fish 1	1 (1.0 - 10.0) mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	6.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1 (1.0 - 10.0) mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC 50 Fish 2	2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
1,4-Dioxane (123-91-1)	
LC50 Fish 1	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	163 mg/l (Exposure time: 48 h - Species: water flea [Static])
LC 50 Fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
Persistence and Degradability	
RV Wash and Wax	
Persistence and Degradability	Not established.
Bioaccumulative Potential	
RV Wash and Wax	
Bioaccumulative Potential	Not established.
1,4-Dioxane (123-91-1)	
BCF fish 1	0.2 - 0.7
og Pow	-0.42
lobility in Soil Not available.	
Other Adverse Effects	
Out and of the state of the sta	4.

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport.

<u>Transport Hazard Class(es)</u>

Additional Information Not available.

<u>Transport by sea</u> Not regulated for transport.

Air transport Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations		
RV Wash and Wax		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Ammonium chloride (12125-02-9)		
Listed on the United States TSCA (Toxic Substances	Control Act) inventory	
4-Dioxane (123-91-1)		
Listed on the United States TSCA (Toxic Substances	Control Act) inventory	-
	·	

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according to Federal Register / Vol. 77, No. 58 / Monday		and Regulations	
ted on SARA Section 313 (Specific toxic ch	emical listings)		
RA Section 313 - Emission Reporting		0.1 %	
Poly(oxy-1,2-ethanediyl), .alphasulfoom	ega(dodecvloxy)-	spdium salt (9004-82-4)	
Listed on the United States TSCA (Toxic Subs	stances Control Act)	inventory	
Dimethylol-5,5-dimethylhydantoin (6440-5			
Listed on the United States TSCA (Toxic Subs		*	
1-Propanaminium, 3-amino-N-(carboxymet	hyl)-N,N-dimethyl-	N-coco acyl derivatives, hydroxides, inner s	alts (61789-40-0)
Listed on the United States TSCA (Toxic Subs			
Sulfuric acid, mono-C10-16-alkyl esters, soc			
Listed on the United States TSCA (Toxic Subs	tances Control Act)	inventory	
<u>US State Regulations</u>			
1,4-Dioxane (123-91-1)			<u> </u>
U.S California - Proposition 65 - Carcinoge	ns List	WARNING: This product contains chemicals	known to the State of
		California to cause cancer.	
Ammonium chloride (12125-02-9)			
U.S Connecticut - Hazardous Air Pollutants	- HIVe /20 min		
U.S Connecticut - Hazardous Air Pollutants			
U.S Delaware - Pollutant Discharge Require		- Quantities	
U.S Idaho - Non-Carcinogenic Toxic Air Pol			
U.S Idaho - Non-Carcinogenic Toxic Air Pol			
U.S Louisiana - Reportable Quantity List fo			
		ter Reportable Concentration - Reporting Cat	tegory 1
U.S Massachusetts - Oil & Hazardous Mate	rial List - Groundwa	ter Reportable Concentration - Reporting Cat	tegory 2
5 Massachusetts - Oil & Hazardous Mate	rial List - Reportable	e Quantity	
5 Massachusetts - Oil & Hazardous Mate	rial List - Soil Repor	table Concentration - Reporting Category 1	
U.S Massachusetts - Oil & Hazardous Mate	rial List - Soil Repor	table Concentration - Reporting Category 2	
RTK - U.S Massachusetts - Right To Know List			
U.S Michigan - Occupational Exposure Limits - STELs			
U.S Michigan - Occupational Exposure Lim	its - TWAs		
U.S Michigan - Polluting Materials List			
U.S Minnesota - Hazardous Substance List			
U.S Minnesota - Permissible Exposure Lim			
U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Jersey - Discharge Prevention - List of Hazardous Substances			
RTK - U.S New Jersey - Right to Know Hazardous Substance List			
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour			
U.S North Dakota - Air Poliutants - Guideline Concentrations - 1-Hour			
U.S Oregon - Permissible Exposure Limits - TWAs			
RTK - U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List			
RTK - U.S Pennsylvania - RTK (Right to Know) List			
U.S South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations			
U.S South Carolina - Toxic Air Pollutants - Pollutant Categories			
U.S Tennessee - Occupational Exposure Limits - STELs			
U.S Tennessee - Occupational Exposure Li			
U.S Texas - Effects Screening Levels - Long			
U.S Texas - Effects Screening Levels - Short			
U.S Vermont - Permissible Exposure Limits - STELs			
5 Vermont - Permissible Exposure Limits - TWAs			
3 Washington - Permissible Exposure Lin			
U.S Washington - Permissible Exposure Lin	nits - TWAs		

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n-ly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4) S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term Sulfuric acid, mono-C10-16-alkyl esters, sodium salts (68585-47-7) U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term 1,4-Dioxane (123-91-1) U.S. - California - SCAQMD - Toxic Air Contaminants - Carcinogens U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic U.S. - California - SDAPCD - Toxic Air Contaminants - Carcinogenic Impacts Must Be Calculated U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Colorado - Groundwater Quality Standards U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Idaho - Occupational Exposure Limits | TWAs U.S. - Illinois - Toxic Air Contaminant Carcinogens U.S. - Illinois - Toxic Air Contaminants U.S. - Louisiana - Reportable Quantity List for Pollutants U.S. - Maine - Air Pollutants - Hazardous Air Pollutants U.S. - Maine - Chemicals of High Concern 5. - Massachusetts - Allowable Ambient Limits (AALs) 5. - Massachusetts - Allowable Threshold Concentrations (ATCs) U.S. - Massachusetts - Drinking Water Guidelines U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 RTK - U.S. - Massachusetts - Right To Know List U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs) U.S. - Massachusetts - Toxics Use Reduction Act U.S. - Michigan - Occupational Exposure Limits - Skin Designations U.S. - Michigan - Occupational Exposure Limits - TWAs U.S. - Michigan - Polluting Materials List U.S. - Minnesota - Chemicals of High Concern U.S. - Minnesota - Groundwater Health Risk Limits U.S. - Minnesota - Hazardous Substance List U.S. - Minnesota - Permissible Exposure Limits - Skin Designations U.S. - Minnesota - Permissible Exposure Limits - TWAs U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - New Jersey - Control and Prohibition of Air Pollution by Toxic Substances U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Environmental Hazardous Substances List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List 5. - New Jersey - Special Health Hazards Substances List 2.5. - New York - Occupational Exposure Limits - Skin Designations U.S. - New York - Occupational Exposure Limits - TWAs

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- 1).S. New York Priority Chemical Avoidance List
 - J.S. New York Reporting of Releases Part 597 List of Hazardous Substances
 - U.S. North Carolina Control of Toxic Air Pollutants
 - U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Air Pollutants Unit Risk Factors
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Oregon Permissible Exposure Limits Skin Designations
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits Skin Designations
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Vermont Permissible Exposure Limits Skin Designations
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Dangerous Waste Dangerous Waste Constituents List
- U.S. Washington Dangerous Waste Discarded Chemical Products List
- 11.S. Washington Permissible Exposure Limits Skin Designations
- J.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

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Canadian Regulations RV Wash and Wax WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects Ammonium chloride (12125-02-9) Listed on the Canadian DSL (Domestic Substances List) inventory. Listed on the Canadian Ingredient Disclosure List IDL Concentration 1 % WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects 1,4-Dioxane (123-91-1) Listed on the Canadian DSL (Domestic Substances List) inventory. Listed on the Canadian Ingredient Disclosure List IDL Concentration 0.1 % Class B Division 2 - Flammable Liquid **THMIS Classification** Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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- ly(oxy-1,2-ethanediyl),	.alphasulfoomega(dodecyloxy)-, sodium salt (9004-82-4)
ted on the Canadian DS	L (Domestic Substances List) inventory.
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
Dimethylol-5,5-dimethylh	ydantoin (6440-58-0)
Listed on the Canadian DS	L (Domestic Substances List) inventory.
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
1-Propanaminium, 3-amir	no-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)
Listed on the Canadian DS	L (Domestic Substances List) inventory.
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
Sulfuric acid, mono-C10-1	6-alkyl esters, sodium saits (68585-47-7)
Listed on the Canadian DS	L (Domestic Substances List) inventory.
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
This product has been also	cified in property of the bound of the fall of the first of the Co. III I I I I I I I I I I I I I I I I I

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 07/22/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 18	Skin corrosion/irritation Category 1B
Skin Irrit, 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA Health Hazard : 2 - Intense or continued exposure could cause temporary

indapacitation or possible residual injury unless prompt

medical attention is given.

NFPA Fire Hazard : 0 - Materials that will not burn.

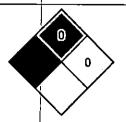
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**FPA Reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Party Responsible for the Preparation of This Document

Star brite Inc. (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2



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Revision Date: 07/01/2015 Date of issue: 07/01/2015

Version: 1.0

TION 1: IDENTIFICATION

oduct Identifier

Product Form: Mixture

Product Name: PREMIUM RV GUARD SPEED DETAILER & PROTECTANT

Product Code: 710XX

Intended Use of the Product

Protectant

Name, Address, and Telephone of the Responsible Party

Company Star brite Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314 (954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300; International: (703) 527-3887

(CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Not classified

Label Elements

GHS-US Labeling No labeling applicable

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May cause an allergic reaction in sensitive lividuals.

nknown Acute Toxicity (GHS-US) Not available

Mixture			
Name	Product Identifier	% (w/w)	Classification (GHS-US)
Isopropyl alcohol	(CAS No) 67-63-0	2.95	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Dimethylol-5,5-dimethylhydantoin	(CAS No) 6440-58-0	0.4	Acute Tox. 4 (Oral), H302
Polytetrafluoroethylene	(CAS No) 9002-84-0	0.01	Not classified
2-Butoxyethanol	(CAS No) 111-76-2	0.00345 - 0.00405	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if tation develops or persists.

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Eve Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. btain medical attention if irritation develops or persists.

migestion: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

Most Important Symptoms and Effects Both Acute and Delayed

General: None expected under normal conditions of use.

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from firefighting to enter drains or water courses.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. azardous Combustion Products: Carbon oxides (CO, CO₂).

.. eference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: No special measures required.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

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Conditions for Safe Storage, Including Any Incompatibilities

prage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from west sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Reducing agents. Acetaldehyde. Chlorine. Ethylene oxide. Isocyanates.

Specific End Use(s) Protectant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

the Mexican government	·	
Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	980 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	1225 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
Alberta	OEL STEL (mg/m³)	984 mg/m³
Alberta	OEL STEL (ppm)	400 ppm
Alberta	OEL TWA (mg/m³)	492 mg/m ³
berta	OEL TWA (ppm)	200 ppm
oritish Columbia	OEL STEL (ppm)	400 ppm
British Columbia	OEL TWA (ppm)	200 ppm
Manitoba	OEL STEL (ppm)	400 ppm
Manitoba	OEL TWA (ppm)	200 ppm
New Brunswick	OEL STEL (mg/m³)	1230 mg/m³
New Brunswick	OEL STEL (ppm)	500 ppm
New Brunswick	OEL TWA (mg/m³)	983 mg/m³
New Brunswick	OEL TWA (ppm)	400 ppm
Newfoundland & Labrador	OEL STEL (ppm)	400 ppm
Newfoundland & Labrador	OEL TWA (ppm)	200 ppm
Nova Scotia	OEL STEL (ppm)	400 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nunavut	OEL STEL (mg/m³)	1228 mg/m³
Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (mg/m³)	983 mg/m³
Nunavut	OEL TWA (ppm)	400 ppm
Northwest Territories	OEL STEL (mg/m³)	1228 mg/m³
Northwest Territories	OEL STEL (ppm)	500 ppm
Northwest Territories	OEL TWA (mg/m³)	983 mg/m³
Northwest Territories	OEL TWA (ppm)	400 ppm
Ontario	OEL STEL (ppm)	400 ppm
Ontario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL STEL (ppm)	400 ppm
nce Edward Island	OEL TWA (ppm)	200 ppm
Québec	VECD (mg/m³)	1230 mg/m³

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- "		
Québec	VECD (ppm)	500 ppm
uébec	VEMP (mg/m³)	985 mg/m³
-cuébec	VEMP (ppm)	400 ppm
Saskatchewan	OEL STEL (ppm)	400 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
Yukon	OEL STEL (mg/m³)	1225 mg/m³
Yukon	OEL STEL (ppm)	500 ppm
Yukon	OEL TWA (mg/m³)	980 mg/m³
Yukon	OEL TWA (ppm)	400 ppm
Polytetrafluoroethylene (90)	02-84-0)	
Québec	VEMP (mg/m³)	2.5 mg/m³ (decomposition products; determine quantitatively the decomposition products in the air and express the results as Fluorides)
2-Butoxyethanol (111-76-2)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
USA NIOSH	NIOSH REL (TWA) (mg/m³)	24 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
Alberta	OEL TWA (mg/m³)	97 mg/m³
Alberta	OEL TWA (ppm)	20 ppm
ritish Columbia	OEL TWA (ppm)	20 ppm
ıvlanitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL TWA (mg/m³)	121 mg/m³
New Brunswick	OEL TWA (ppm)	25 ppm
Newfoundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (mg/m³)	360 mg/m³
Nunavut	OEL STEL (ppm)	75 ppm
Nunavut	OEL TWA (mg/m³)	120 mg/m ³
Nunavut	OEL TWA (ppm)	25 ppm
Northwest Territories	OEL STEL (mg/m³)	360 mg/m ³
Northwest Territories	OEL STEL (ppm)	75 ppm
Northwest Territories	OEL TWA (mg/m³)	120 mg/m³
Northwest Territories	OEL TWA (ppm)	25 ppm
Ontario	OELTWA (ppm)	20 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Québec	VEMP (mg/m³)	97 mg/m³
Québec	VEMP (ppm)	20 ppm
Saskatchewan	OEL STEL (ppm)	30 ppm
Saskatchewan	OEL TWA (ppm)	20 ppm
Yukon	OEL STEL (mg/m³)	720 mg/m³
Yukon	OEL STEL (mg/m /	150 ppm
Yukon	OEL TWA (mg/m³)	240 mg/m³
-Cukon	OEL TWA (mg/mr)	50 ppm
anon	Oct 144% (bbiti)	1 20 pprii

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Exposure Controls

ppropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Not generally required. The use of personal protective equipment may be necessary as conditions

warrant.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : Light Blue
Odor : Pleasant
Odor Threshold : Not available

pH : 5

Not available **Evaporation Rate Melting Point** Not available **Freezing Point** Not available > 100 °C (212 °F) **Boiling Point** > 100 °C (212 °F) Flash Point Not available **Auto-ignition Temperature** ecomposition Temperature Not available Not available lammability (solid, gas) Not available Lower Flammable Limit Upper Flammable Limit Not available Not available Vapor Pressure Relative Vapor Density at 20 °C Not available

Relative Density : Not available
Specific Gravity : 0.995 (at 20°C)

Solubility : Soluble.

Partition Coefficient: N-Octanol/Water : Not available : Not available : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

Explosion Data - Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Reducing agents. Acetaldehyde. Chlorine. Ethylene oxide.

Isocyanates.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on	Toxicological	Effects :	Product
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cute Toxicity: Not classified
D50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified

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pH: 5

erious Eye Damage/Irritation: Not classified

բH: 5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause mild skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Isopropyl alcohol (67-63-0)	
LD50 Oral Rat	4710 mg/kg
LD50 Dermal Rabbit	4059 mg/kg
LC50 Inhalation Rat	72.6 mg/l/4h (Exposure time: 4 h)
Dimethylol-5,5-dimethylhydantoin (6440-58-0)	
LD50 Oral Rat	1572 mg/kg
2-Butoxyethanol (111-76-2)	
550 Oral Rat	470 mg/kg
ريـ250 Dermal Rat	220 mg/kg
LD50 Dermal Rabbit	99 mg/kg
LC50 Inhalation Rat	450 ppm/4h
ATE US (vapors)	3.84 mg/l/4h
Isopropyl alcohol (67-63-0)	
IARC Group	3
Polytetrafluoroethylene (9002-84-0)	
IARC Group	3
2-Butoxyethanol (111-76-2)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No additional information ava	ilable
Isopropyl alcohol (67-63-0)	
LC50 Fish 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC 50 Fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
Dimethylol-5,5-dimethylhydantoin (644	
LC50 Fish 1	514 mg/l (Freshwater [96h static] Species: Oncorhynchus mykiss)
2-Butoxyethanol (111-76-2)	
C50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
C50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

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Persistence and Degradability

EMIUM RV GUARD SPEED DETAILER & PROTECTANT

rersistence and Degradability Not established.

Bioaccumulative Potential

PREMIUM RV GUARD SPEED DETAILER & PROTECTANT

Bioaccumulative Potential Not established.

Isopropyl alcohol (67-63-0)

Log Pow 0.05 (at 25 °C)

2-Butoxyethanol (111-76-2)

Log Pow 0,81 (at 25 °C)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG/IMDG

UN Number Not regulated for transport

UN Proper Shipping Name

Not regulated for transport

Transport Hazard Class(es)

Additional Information Not available

Transport by sea Not regulated for transport rtransport Not regulated for transport

ıvıarine Pollutant No

SECTION 15: REGULATORY INFORMATION

US Federal Regulations	
Isopropyl alcohol (67-63-0)	
Listed on the United States TSCA (Toxic Substances C	Control Act) inventory
Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)
Dimethylol-5,5-dimethylhydantoin (6440-58-0)	
Listed on the United States TSCA (Toxic Substances C	Control Act) inventory
Polytetrafluoroethylene (9002-84-0)	
Listed on the United States TSCA (Toxic Substances C	Control Act) inventory
2-Butoxyethanol (111-76-2)	

US State Regulations

Isopropyl alcohol (67-63-0)

- U.S. California SCAOMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic

Listed on the United States TSCA (Toxic Substances Control Act) inventory

- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
 - 3. Connecticut Hazardous Air Pollutants HLVs (8 hr)
 - 5. Connecticut Volatile Substances
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations

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PREMIUM RV GUARD SPEED DETAILER & PROTECTANT Safety Data Sheet

	Safety Data Sneet
	According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
1	S Idaho - Occupational Exposure Limits - TWAs
;	∴ ΓK - U.S Massachusetts - Right To Know List
	U.S Massachusetts - Toxics Use Reduction Act
	U.S Michigan - Occupational Exposure Limits - STELs
	U.S Michigan - Occupational Exposure Limits - TWAs
	U.S Minnesota - Hazardous Substance List
	U.S Minnesota - Permissible Exposure Limits - STELs
	U.S Minnesota - Permissible Exposure Limits - TWAs
	U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
	U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
	U.S New Jersey - Discharge Prevention - List of Hazardous Substances
	U.S New Jersey - Environmental Hazardou's Substances List
	RTK - U.S New Jersey - Right to Know Hazardous Substance List
	U.S New Jersey - Special Health Hazards Substances List
	U.S New York - Occupational Exposure Limits - TWAs
	U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
	U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
	U.S Oregon - Permissible Exposure Limits - TWAs
	RTK - U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
	RTK - U.S Pennsylvania - RTK (Right to Know) List
	U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
	U.S Tennessee - Occupational Exposure Limits - STELs
	U.S Tennessee - Occupational Exposure Limits - 372LS
	U.S Texas - City of Austin - Aerosol Paint and Glue Restrictions
	U.S Texas - Effects Screening Levels - Long Term
S.	S Texas - Effects Screening Levels - Short Term
1	- S Vermont - Permissible Exposure Limits - STELs
	U.S Vermont - Permissible Exposure Limits - TWAs
	U.S Washington - Permissible Exposure Limits - TWAS
	U.S Washington - Permissible Exposure Limits - TWAs
	Polytetrafluoroethylene (9002-84-0)
	RTK - U.S Pennsylvania - RTK (Right to Know) List
	U.S Texas - Effects Screening Levels - Long Term
	U.S Texas - Effects Screening Levels - Short Term
	2-Butoxyethanol (111-76-2)
	U.S California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
	U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)
	U.S Colorado - Groundwater Quality Standards
	U.S Connecticut - Hazardous Air Poliutants - HLVs (30 min)
	U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
	U.S Idaho - Occupational Exposure Limits - TWAs
	U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
	U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
	U.S Massachusetts - Oil & Hazardous Material List - Reportable Quantity
	U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
	U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
	RTK - U.S Massachusetts - Right To Know List
Ţ	44 S Michigan - Occupational Exposure Limits - Skin Designations
J	% - Michigan - Occupational Exposure Limits - TWAs
1	Ü.S Minnesota - Chemicals of High Concern

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- U.S. Minnesota Hazardous Substance List
- 5. Minnesota Permissible Exposure Limits Skin Designations
- S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits Skin Designations
- U.S. New York Occupational Exposure Limits TWAs
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits Skin Designations
- U.S. Oregon Permissible Exposure Limits TWAs
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. Tennessee Occupational Exposure Limits Skin Designations
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits Skin Designations
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits Skin Designations
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
 - 5. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
 - 5. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Canadian Regulations

Canadian Regulations			
PREMIUM RV GUARD SPEED	DETAILER & PR	OTECTANT	
WHMIS Classification	Uncontrolled	product according to WHMIS classification criteria	
Isopropyl alcohol (67-63-0)			
Listed on the Canadian DSL (D	omestic Subst	ances List)	
Listed on the Canadian IDL (In	gredient Discl	osure List)	
IDL Concentration 1 %			
WHMIS Classification	Class B Divisi	on 2 - Flammable Liquid	
	Class D Divisi	on 2 Subdivision B - Toxic material causing other toxic effects	
Dimethylol-5,5-dimethylhyda	ntoin (6440-5	8-0)	
Listed on the Canadian DSL (D	omestic Subst	ances List)	
WHMIS Classification	Uncontrolled	product according to WHMIS classification criteria	
Polytetrafluoroethylene (900	2-84-0)		
Listed on the Canadian DSL (D	omestic Subst	ances List)	
WHMIS Classification	Uncontrolled	product according to WHMIS classification criteria	
2-Butoxyethanol (111-76-2)			
Listed on the Canadian DSL (Domestic Substances List)			
Listed on the Canadian IDL (Ingredient Disclosure List)			
IDL Concentration 1 %			
WHMIS Classification	Class B Divisi	on 3 - Combustible Liquid	
Į		on 1 Subdivision A - Very toxic material causing immediate and s	
ı	Class D Divisi	on 1 Subdivision B - Toxic material causing immediate and seriou	s toxic effects
Ÿ	Class D Divisi	on 2 Subdivision B - Toxic material causing other toxic effects	

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS itains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date

: 07/01/2015

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

	l	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 4	Flammable liquids Category 4	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
Skin Sens. 1B	Skin sensitization Category 1B	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H227	Combustible liquid	
H302	" Harmful if swallowed	
H310	Fatal in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	
H336	May cause drowsiness or dizziness	
		_

PA Health Hazard

: 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

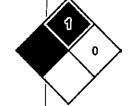
NFPA Fire Hazard

: 1 - Must be preheated before ignition can occur.

NFPA Reactivity

0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



Party Responsible for the Preparation of This Document

Starbrite®

Phone Number: (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS



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Date of issue: 10/15/2014

Version: 1.0

TION 1: IDENTIFICATION

soduct Identifier

Product Name: RV Awning Cleaner

Product Code: 713XX

Intended Use of the Product

Use of the Substance/Mixture: Cleaner.

Name, Address, and Telephone of the Responsible Party

Company

Star brite Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300 International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

<u>Classification</u> of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit, 2A H319 Skin Sens. 1 H317

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US): P261 - Avoid breathing vapors, spray, mist.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear eye protection, protective gloves, protective clothing.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see Section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container according to local, regional, national, territorial,

provincial, and international regulations.

Other Hazards

Aquatic Acute 3

H402 - Harmful to aquatic life.

P273 - Avoid release to the environment.

known Acute Toxicity (GHS-US) Not available

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SECTION 3: COMPOSITION/INFO	RMATION ON INGREDIENT	S	
ixture			
Name	Product Identifier	% (w/w)	Classification (GHS-US)
Alcohols, 69-11, ethoxylated	(CAS No) 68439-46-3	1-5	Acute Tox. 4 (Oral), H302
		1	Eye Dam. 1, H318
Tetrasodium EDTA	(CAS No) 64-02-8	0.5 - 1.5	Comb. Dust
	<u> </u>		Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Inhalation:dust,mist), H332
*	;		Eye Dam. 1, H318
	<u> </u>		Äquatic Acute 2, H401
Potassium carbonate	(CAS No) 584-08-7	0.5 - 1.5	Skin Irrit. 2, H315
	<u> </u>		Eye Irrit. 2A, H319
	ļ		STOT SE 3, H335
Sodium xylene sulfonate	(CAS No) 1300-72-7	0.5 - 1.5	Acute Tox. 4 (Oral), H302
	[]		Skin Irrit. 2, H315
	1 1		Eye Irrit. 2A, H319
			STOT SE 3, H335
Citrus, extract	(CAS No) 94266-47-4	0.1 - 0.9	Flam. Liq. 3, H226
	11		Skin Irrit. 2, H315
			Skin Sens. 1, H317
	11	-	Asp. Tox. 1, H304
			Aquatic Acute 1, H400

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

escription of First Aid Measures

neral: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

Aquatic Chronic 1, H410

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation. Causes skin irritation. **Inhalation:** May cause irritation to the respiratory tract.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting. Exposure may produce an allergic reaction.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

re Hazard: Not considered flammable but may burn at high temperatures.

plosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

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Advice for Firefighters

ecautionary Measures Fire: Exercise caution when fighting any chemical fire.

Exercise Instructions: Do not allow run-off from fire fighting to enter drains or water courses. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen compounds.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Eliminate ignition sources. Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Stop leak if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as saw dust or cellulosic material.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

TION 7: HANDLING AND STORAGE

Frecautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from oxidizers, combustible materials, and all ignition sources.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s)

Cleaner.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not applicable

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective clothing. Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.









Hand Protection: Wear chemically resistant protective gloves.

Eve Protection: Chemical goggles or face shield.

n and Body Protection: Wear suitable protective clothing.

*piratory Protection: A respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2-1992 or MSHA 30 CFR 72.710 (where applicable) requirements must be followed whenever workplace conditions warrant respirator use.

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Other Information: When using, do not eat, drink or smoke.

TION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>information on Basic Physical and Chemical Properties</u>

Physical State : Liquid
Appearance : Pink

Odor : Characteristic
Odor Threshold : Not available

pH : 12.5 (Alkali reserve = 0.02g NaOH / 100 mL)

 Evaporation Rate
 : Not available

 Melting/Freezing Point
 : Not available

 Boiling Point
 : > 100 °C (212.00 °F)

Flash Point : > 100 °C (212.00 °F)

Auto-ignition Temperature : Not available
Decomposition Temperature : Not available
Flämmability (solid, gas) : Not available
Lower Flammable Limit : Not available
Upper Flammable Limit : Not available
Vapor Pressure : Not available
Relative Vapor Density at 20 °C : Not available

Relative Density/Specific Gravity : 1.02 (water = 1) at 20 °C (68 °F)

Solubility : Soluble in water.

Partition Coefficient: N-octanol/water : Not available

Viscosity : Not available

Explosion Data - Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

plosion Data - Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

<u>Possibility of Hazardous Reactions</u>: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Heat, hot surfaces, sparks, open flames, and other ignition sources.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation. [pH: 12.5 (Alkali reserve = 0.02g NaOH / 100 mL)]

Serious Eye Damage/Irritation: Causes serious eye irritation. [pH: 12.5 (Alkali reserve = 0.02g NaOH / 100 mL)]

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract.

sumptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

mptoms/Injuries After Eye Contact: Causes serious eye irritation.

symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

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Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting. Exposure may produce an allergic

...formation on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

LDGG GHG EGGG BGIG.		
Alcohols, C9-11, ethoxylated (68439-46-3)		
LD50 Oral Rat	1400 mg/kg	
LD50 Dermal Rat	> 2 g/kg	
Tetrasodium EDTA (64-02-8)		
LD50 Oral Rat	1780 mg/kg	
ATE US (dust, mist)	1.50 mg/l/4h	
Potassium carbonate (584-08-7)		
LD50 Oral Rat	> 2000 mg/kg	
LD50 Dermal Rabbit .	> 2000 mg/kg	
Sodium xylene sulfonate (1300-72-7)		
LD50 Oral Rat	1000 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No additional information available

Tetrasodium EDTA (64-02-8)	
LC50 Fish 1	41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC 50 Fish 2	59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (algae)	2.77 mg/l (72hr species: Desmodesmus subspicatus)

Persistence and Degradability Not available

Pipaccumulative Potential

trasodium EDTA (64-02-8)

Log Pow 5.01 (calculated)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

- 14.1. UN Number Not regulated for transport
- 14.2. UN Proper Shipping Name Not regulated for transport
- 14.3. Additional Information Not regulated for transport

Transport by Sea Not regulated for transport

Air Transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

115	Federal	Regulations	
	1 Euclai	Nesulatività	

RV Awning Cleaner		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

Alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Tetrasodium EDTA (64-02-8)

ted on the United States TSCA (Toxic Substances Control Act) inventory

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Potassium carbonate (584-08-	7)
ted on the United States TSC	A (Toxic Substances Control Act) inventory
södium xylene sulfonate (130	
	A (Toxic Substances Control Act) inventory
US State Regulations	
Alcohols, C9-11, ethoxylated (68439-46-3)
U.S Texas - Effects Screening	
U.S Texas - Effects Screening	
Tetrasodium EDTA (64-02-8)	
U.S Texas - Effects Screening	Levels - Long Term
U.S Texas - Effects Screening	
Potassium carbonate (584-08-	
U.S Texas - Effects Screening	
U.S Texas - Effects Screening	
Citrus, extract (94266-47-4)	
U.S Texas - Effects Screening	Levels - Long Term
U.S Texas - Effects Screening	
Sodium xylene sulfonate (130	
U.S Texas - Effects Screening	
U.S Texas - Effects Screening	-
Canadian Regulations	Levels - Short Term
RV Awning Cleaner	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
(U)	
Alcohols, C9-11, ethoxylated (68439-46-3)
Listed on the Canadian DSL (Do	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Tetrasodium EDTA (64-02-8)	
Listed on the Canadian DSL (Do	omestic Sustances List)
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	Class E - Corrosive Material
Potassium carbonate (584-08-	7)
Listed on the Canadian DSL (Do	
Listed on the Canadian IDL (Ing	redient Disclosure List)
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	Class E - Corrosive Material
Citrus, extract (94266-47-4)	
WHMIS Classification	Class B Division 2 - Flammable Liquid
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Sodium xylene sulfonate (130	0-72-7)
Listed on the Canadian DSL (De	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	d in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS
tains all of the information	

10/15/2014 RTATMR-CC EN (English US) 6/7

: 10/15/2014

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

IS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	·	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Cate		
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2		
Aquatic Acute 3	·	Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Cat	tegory 1	
Asp. Tox. 1	Aspiration hazard Category 1	_	
Comb. Dust	Combustible Dust		
Eye Dam. 1	Serious eye damage/eye irritation Category 1		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
Flam. Liq. 3	Flammable liquids Category 3		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
Skin Sens. 1	Skin sensitization Category 1		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H226	Flammable liquid and vapor		
Comb. Dust	May form combustible dust concentrations in air		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H335	May cause respiratory irritation		
H400	Very toxic to aquatic life		
H401	Toxic to aquatic life		
H402	Harmful to aquatic life	-	
H410	Very toxic to aquatic life with long lasting effects	_	

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual injury even if

no treatment is given.

NFPA Fire Hazard

1 - Must be preheated before ignition can occur.

NFPA Reactivity

0 - Normally stable, even under fire exposure conditions, and are not

reactive with water.

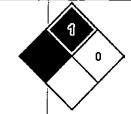
Party Responsible for the Preparation of This Document

Starbrite®

Phone Number: (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS



MATERIAL SAFETY DATA SHEET Replaces: March 7, 2010 Date: April 15, 2013dco 1. Product and Company Identification 75732PW, 75732PC, 75716 Health: 2 PRODUCT CODE: 2 Flammability: Star brite Premium RV Polish with PTEF® PRODUCT NAME: Instability: 0 Polish Blend hemical Family: Special: AS Number: Mixture **TELEPHONE NUMBERS:** MANUFACTURER NAME AND ADDRÉSS: 800-424-9300 or 703-527-3887 Star brite Distributing, Inc. Chemtrec: 800-327-8583 4041 S. W. 47 Avenue Information: Replaces: July 19, 2006 Ft. Lauderdale, FL 33314 Composition/Information on Ingredients 2. ACGIH TLV Other Limits OSHA PEL Percentage Hazardous Components (Chemical Name) CAS# 300 ppm-STEL No data 1. Hydrotreated light distillate (petroleum) | 64742-47-8 No data 10.0-15.0% No data No data 300 ppm 8008-20-6 15.0-20.0% 2. Kerosine 10 mg/m3 No data 1332-58-7 1.0-10.0% 10 mg/m3 3. Kaolin No data No data No data 67-63-0 1.0-5.0% 4. Isopropyl alcohol No data No data No data 8052-41-3 1.0-5.0% 5. Stoddard solvent 6. Dimethoxysilyldimethyl-No data Aminoethylaminopropyl silicone 71750-81-7 1.0-5.0% No data No data ACGIH STEL ACGIH CEIL **OSHA CEIL** OSHA STEL Hazardous Components (Chemical Name) RTECS# No data No data No data OA5504000 No data 1. Hydrotreated light distillate (petroleum) No data No data No data No data OA5500000 2. Kerosine No data No data No data No data 3. Kaolin GF1670500 No data No data No data 4. Isopropyl alcohol NT8050000 No data No data No data 5. Stoddard solvent WJ8925000 No data No data No data No data No data 6. Dimethoxysilyldimethyl-NA No data aminoethylaminopropyl silicone Hazards Identification **Emergency Overview** Danger, Combustible. Contains petroleum distillates. Harmful or fatal if swallowed. Keep away from heat, sparks and open flame. If swallowed, do not induce vomiting, call a physician immediately. Keep out of reach of children. Ingestion? Yes Skin? Yes Eyes? Yes Inhalation? Yes Route(s) of Entry: Potential Health Effects (Acute and Chronic) **ACUTE HEALTH EFFECTS** EYES: Contact will cause eye irritation. SKIN: Frequent or prolonged contact may irritate and defat the skin. INHALATION: Inhalation may cause dizziness, headaches and irritate respiratory tract. INGESTION: This material may be harmful or fatal if swallowed. Irritating to mouth, throat and stomach. TARGET ORGAN EFFECTS: Central nervous system, possible kidneys (kerosene). 5-15 g/kg (kerosene) LD 50/LC 50: Signs and Symptoms of Exposure EYES: Contact produces burning and redness SKIN: Prolonged skin contact may result in irritation with redness and severe swelling and blistering. INGESTION: Irritation of the gastrointestinal tract and possible vomiting and diarrhea. INHALATION: Vapors or mists, in excess of permissible concentrations, or in unusually high concentrations may cause

irritation of the nose, throat, headache, nausea and drowsiness.

Medical Conditions Generally Aggravated by Exposure

No data available.

OSHA Hazard Classes:

Toxic, Irritant **HEALTH HAZARDS:** PHYSICAL HAZARDS: Combustible Liquid

TARGET ORGANS & EFFECTS: Kidney, Eyes, Skin, Central Nervous System

PRODUCT CODE: 75732

PRODUCT NAME: Star brite Premium RV Polish with PTEF®

First Aid Measures

Emergency and First Aid Procedures

EYES: Check for and remove any contact lenses. Immediately flush eyes with large amounts of water for 15 minutes or until irritation subsides. Get medical attention.

SKIN: Wash exposed area with mild soap and water.

INGESTION: Do not induce vomiting. Get immediate medical attention.

INHALATION: If irritation, headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing

becomes difficult or respiratory irritation persists.

5. Fire Fighting Measures

Flash Point

127.00 F (52.8 C)

Method: TCC

Explosive Limits:

LEL: 0.9

UEL 7.0

Autoignition Point

540.00 F (282.2 C)

Fire Fighting Instructions

A self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Flammable Properties and Hazards

Combustible Liquid. Material floats on water. Cool fire exposed containers.

Extinguishing Media

Dry Chemicals, CO2 or Alcohol Resistant Foam.

6. Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Keep out of sewers and drains. Avoid contact with skin, eyes and clothing.

7. Handling and Storage

Hazard Label Information:

DANGER! Harmful or fatal if swallowed. Combustible. Keep out of reach of children.

Precautions to be Taken in Handling

Combustible. Harmful or fatal if swallowed. Keep away from heat, sparks and open flame. Keep out of reach of children.

Precautions to be Taken in Storing

Store in well ventilated area away from sources of heat, sparks, or open flame.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

Local ventilation needed at times.

Eye Protection

Safety glasses

Protective Gloves

Not required under normal use.

Other Protective Clothing

None should be needed

Engineering Controls (Ventilation etc.)

Adequate ot meet occupational exposure limits. See Section II.

Work/Hygienic/Maintenance Practices

Do not smoke while using. Wash hands after use. Use good personal hygiene at all times.

PRODUCT NAME: Star brite	Premium RV Polish with PTEF®	
	Physical and Chemical Properties	
Dl		
Physical States:	[] Gas [X] Liquid [] Solid	
Melting Point Poiling Point	32.00 F (0.0 C)	
pecific Gravity	N.A. 0.98 - 1.00 at 68.0 F (20.0 C)	
bensity	0.98 - 1.00 at 68.0 F (20.0 C) No data.	
Vapor Pressure	No data.	
Vapor Density	No data.	
Evaporation Rate	No data.	
Solubility in Water	<0.1% at 68.0 F (20.0 C)	
Percent Volatile	79.000 % by weight.	
VOC / Volume	29.4400 WT%	
HAP / Volume	0.0000	
Saturated Vapor Concentration	No data.	
Viscosity	3500 - 11000 CPS at 68.0 F (20.0 C)	
pH	9.8	
Appearance and Odor	acteristic hydrocarbon odor.	
Thick white figure with char	acteristic hydrocarbon odor.	
	10. Stability and Reactivity	
	10. Blabinty and Reactivity	
Stability: Unstable	[] Stable [X]	
Conditions to Avoid - Instability	, ,	
None known.		
Incompatibility – Materials to Avoi	id	
Strong oxidizers.		
Hazardous Decomposition or Bypro		
Carbon monoxide, fumes and		
Hazardous Polymerization:	Will occur [X]	
Conditions to Avoid – Hazardous P Product will not undergo pol		
110daet will not undergo per	ymerization.	
Trouble will not undergo por		
Trouber will not undergo por	11. Toxicological Information	
Toxicological Information No data available.		
Toxicological Information	11. Toxicological Information	
Toxicological Information No data available. Carcinogenicity/Other Information No data available	11. Toxicological Information	
Toxicological Information No data available. Carcinogenicity/Other Information	11. Toxicological Information	
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Toxicological Information No data available. Carcinogenicity/Other Information No data available	11. Toxicological Information	
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Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations I disposal should be carried out in accordance with federal, state and local regulations	ions.
Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations	ions.
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Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method All notification, clean up and LAND TRANSPORT (US DOT) DOT Proper Shipping Name: Fig. 1	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations 14. Transport Information 14. Transport Information	ions.
Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method All notification, clean up and LAND TRANSPORT (US DOT) DOT Proper Shipping Name: Fig. Number:	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations I disposal should be carried out in accordance with federal, state and local regulating the state and local regulations and local regulations are stated to the state and local regulations and local regulations are	tions.
Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method All notification, clean up and LAND TRANSPORT (US DOT) DOT Proper Shipping Name: T Hazard Class: 3	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations disposal should be carried out in accordance with federal, state and local regulated. Transport Information 14. Transport Information	iions.
Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method All notification, clean up and LAND TRANSPORT (US DOT) DOT Proper Shipping Name: T Hazard Class: 3 Packing Group: II	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations 14. Transport Information 14. Transport Information	tions.
Toxicological Information No data available. Carcinogenicity/Other Information No data available Carcinogenicity: NTP? No Ecological Information No data available. Waste Disposal Method All notification, clean up and LAND TRANSPORT (US DOT) DOT Proper Shipping Name: T Hazard Class: 3 racking Group: DOT Hazard Label:	IARC Monographs? NO OSHA Regulated? No 12. Ecological Information 13. Disposal Considerations disposal should be carried out in accordance with federal, state and local regulated. Transport Information 14. Transport Information	tions.

PRODUCT CODE:

75732

PRODUCT NAME: Star brite Premium RV Polish with PTEF®

14. Transport Information (cont'd)

IATA & IMDG

"oper Shipping Name:

Flammable liquids, n.o.s. (Hydrocarbons)

N Number:

1993

mazard Class: Packing Group:

3 Ш

Hazard Labels Required:

Limited quantities up to 5 liters.

Above 5 liters, Flammable Liquid

	15. Regulate	ory Information			
US EPA SARA Title III					
Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Hydrotreated light distillate (petroleum)	64742-47-8	No	No	No	No
2. Kerosine	8008-20-6	No	No	No	No
3. Kaolin	1332-58-7	No	No	No	No
4. Isopropyl alcohol	67-63-0	No	No	Yes	No
5. Stoddard solvent	8052-41-3	No	No	No	No
6. Dimethoxysilyldimethyl-	71750-81-7	No	No	No	No
Aminoethylaminopropyl silicone					

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS#	EPS CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Hydrotreated light distillate (petroleum)	64742-47-8	No	No	No	No
2. Kerosine	8008-20-6	No	No	No	No
3. Kaolin	1332-58-7	No	No	No	No
4. Isopropyl alcohol	67-63-0	No	No	No	No
5. Stoddard solvent	8052-41-3	No	No	No	No
6. Dimethoxysilyldimethyl-	71750-81-7	No	No	No	No
Aminoethylaminonropyl silicone					-

RA (Superfund Amendments and Reauthorization Act of 1986)

Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. *indicates 10000

LB TPO if not volatile.

Sec.304:

EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity** indicates statutory

EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category. Sec.313:

EPA SARA 110 Superfund Site Priority Contaminant List Sec.110:

Other Important Lists:

CWA NPDES: EPA Clean Water Act NPDES Permit Chemical CAA HAP: EPA Clean Air Act Hazardous Air Pollutant

CAA ODC: EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)

CA PROP 65: California Proposition 65

TSCA (Toxic Substances Control Act) Lists:

Chemical Subject to Significant New Rules (SNURS) 5A(2):

6A: Commercial Chemical Control Rules

8A: Toxic Substances Subject To Information Rules on Production 8A CAIR: Comprehensive Assessment Information Rules – (CAIR) **8A PAIR:** Preliminary Assessment Information Rules – (PAIR) 8C: Records of Allegations of Significant Adverse Reactions

8D: Health and Safety Data Reporting Rules

8D TERM: Health and Safety Data Reporting Rule Terminations

Regulatory Information

Prop 65: This product does not contain a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

ARA Title III, Section 313: No chemicals are present in this product subject to the reporting requirements of Section 313.

New Jersey Right-To-Know: Water; Mineral Spirits CAS# 64742-47-8; Kaolin Clay CAS# 1332-58-7; Aminopoly siloxane CAS# 73892-00-9; Kerosene CAS# 8008-20-6; Isopropyl Alcohol CAS# 67-63-0.

	1
PRODUCT CODE: 75732	
PRODUCT NAME: Star brite Premium RV Polish with PTEF®	
15. Regulatory Information (cont'd)	
EPA Hazard Categories:	
This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicate	d:
[X] Yes [] No Acute (immediate) Health Hazard	
[X] Yes [] No Chronic (delayed) Health Hazard	
[X] Yes [] No Fire Hazard	
[] Yes [X] No Reactive Hazard	
[] Yes [X] No Sudden Release of Pressure Hazard	
The information contained herein is based on data considered accurate. However, no warranty is expressed	rimplied recording the
accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for	
person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in	
Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by a	
material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risk in use of the	
	ic material.
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16. Other Information	ic material.
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Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 10/12/2015

Date of issue: 10/12/2015

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Premium RV One Step HD Cleaner Wax

Product Code: 796XX

Intended Use of the Product

Use of the Substance/Mixture: Polish.

Name, Address, and Telephone of the Responsible Party

Company

Star brite Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Flam, Liq. 3 H226

Skin Irrit. 2 H315

STOT SE 3 H336

Full text of H-phrases: see section 16

bel Elements

4S-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

Precautionary Statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P.240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, protective gloves, protective clothing.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P312 - Call a poison center or doctor if you feel unwell.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

Safety Data Sheet

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P362 - Take off contaminated clothing and wash before reuse.

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2) to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P235 - Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Aquatic Acute 3

Aquatic Chronic 3

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

P273 - Avoid release to the environment.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Kerosine, petroleum	(CAS No) 8008-20-6	10 - 30*	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Chronic 2, H411
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	5-10*	Skin Irrit. 2, H315
, , ,	1, ,		STOT SE 3, H336
•			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
	1		Aquatic Chronic 2, H411
Diatomaceous earth	(CAS No) 61790-53-2	5-10*	Not classified
Methyl alcohol	(CAS No) 67-56-1	< 0.1	Flam. Liq. 2, H225
,			Acute Tox. 3 (Oral), H301
			Acute Tox. 3 (Dermal), H311
	1		Acute Tox. 3 (Inhalation:vapour), H331
			STOT SE 1, H370
Diethanolamine	(CAS No) 111-42-2	< 0.1	Acute Tox. 4 (Oral), H302
2.24	, ,		Skin Irrit. 2, H315
			Eye Dam. 1, H318
		1	Carc. 2, H351
			STOT RE 2, H373
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where ossible).

nhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

10/12/2015 MTMOFM-CC EN (English US) 2/15

^{*} A range of concentration as prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]. In the event of an emergency, chemical identities and exact percentages of the proprietary ingredients may need to be disclosed to emergency personnel upon request.

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Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing fore reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation. Vapor's may cause drowsiness and dizziness.

Inhalation: May cause drowsiness or dizziness.

Skin Contact: Causes skin irritation. Eye Contact: May cause eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Reacts with (strong) oxidizers: (increased) risk of fire.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

efighting Instructions: Do not allow run-off from fire fighting to enter drains or water courses.

... tection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen compounds. Sulfur compounds. Iodine vapour.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Use only non-sparking tools.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

CTION 7: HANDLING AND STORAGE

rrecautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

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Precautions for Safe Handling: Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from at, sparks, open flames, hot surfaces. — No smoking.

..; giene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Polish.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Diatomaceous earth (6179)	0-53-2)	
Mexico	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
British Columbia	OEL TWA (mg/m³)	4 mg/m³ (total dust)
		1.5 mg/m³ (respirable dust)
New Brunswick	OEL TWA (mg/m³)	3 mg/m³ (particulate matter containing no Asbestos and
	1	<1% Crystalline silica, respirable fraction)
		10 mg/m³ (particulate matter containing no Asbestos and
	!	<1% Crystalline silica, inhalable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline
	'	silica-inhalable)
		3 mg/m³ (containing no Asbestos and <1% Crystalline
		silica-respirable)
Québec	VEMP (mg/m ³)	6 mg/m³ (containing no Asbestos and <1% Crystalline
		silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
		6 mg/m³ (respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
		3 mg/m³ (respirable fraction)
Kerosine, petroleum (8008-		
USA ACGIH	ACGIH TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
		there are negligible aerosol exposures-total hydrocarbon
		vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure
		by the cutaneous route, Confirmed Animal Carcinogen with
		Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m³)	100 mg/m ³
Alberta	OEL TWA (mg/m³)	200 mg/m ³
British Columbia	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
		there are negligible aerosol exposures)
Manitoba	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
	1	there are negligible aerosol exposures-total Hydrocarbon
		vapor)
Newfoundland & Labrador	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
	!	there are negligible aerosol exposures-total Hydrocarbon
		vapor)
va Scotia	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
		there are negligible aerosol exposures-total Hydrocarbon

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<u> </u>		vapor)
ıtario	OEL TWA (mg/m³)	200 mg/m³ (restricted to conditions where there is
		negligible aerosol exposure)
Prince Edward Island	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
		there are negligible aerosol exposures-total Hydrocarbon
		vapor)
Saskatchewan	OEL STEL (mg/m³)	250 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	200 mg/m ³
Methyl alcohol (67-56-1)	<u> </u>	
Mexico	OEL TWA (mg/m³)	260 mg/m³
Mexico	OEL TWA (ppm)	200 ppm
Mexico	OEL STEL (mg/m³)	310 mg/m³
Mexico	OEL STEL (ppm)	250 ppm
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure
		by the cutaneous route
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³.
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	260 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	325 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
USA IDLH	US IDLH (ppm)	6000 ppm
Alberta	OEL STEL (mg/m³)	328 mg/m³
berta	OEL STEL (ppm)	250 ppm
berta	OEL TWA (mg/m³)	262 mg/m³
Alberta	OEL TWA (ppm)	200 ppm
British Columbia	OEL STEL (ppm)	250 ppm
British Columbia	OEL TWA (ppm)	200 ppm
Manitoba	OEL STEL (ppm)	250 ppm
Manitoba	OEL TWA (ppm)	200 ppm
New Brunswick	OEL STEL (mg/m³)	328 mg/m³
New Brunswick	OEL STEL (ppm)	250 ppm
New Brunswick	OEL TWA (mg/m³)	262 mg/m³
New Brunswick	OEL TWA (ppm)	200 ppm
Newfoundland & Labrador	OEL STEL (ppm)	250 ppm
Newfoundland & Labrador	OEL TWA (ppm)	200 ppm
Nova Scotia	OEL STEL (ppm)	250 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nunavut	OEL STEL (mg/m³)	328 mg/m³
Nunavut	OEL STEL (ppm)	250 ppm
Nunavut	OEL TWA (mg/m³)	262 mg/m³
Nunavut	OEL TWA (Ing/III)	200 ppm
Northwest Territories	OEL STEL (mg/m³)	328 mg/m ³
Northwest Territories	OEL STEL (ppm)	250 ppm
Northwest Territories	OEL TWA (mg/m³)	262 mg/m³
Northwest Territories	OEL TWA (ppm)	200 ppm
Ontario	OEL STEL (ppm)	250 ppm
tario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL STEL (ppm)	250 ppm

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Prince Edward Island	OEL TWA (ppm)	200 ppm
ébec	VECD (mg/m³)	328 mg/m³
ébec	VECD (ppm)	250 ppm
Québec	VEMP (mg/m³)	262 mg/m³
Québec	VEMP (ppm)	200 ppm
Saskatchewan	OEL STEL (ppm)	250 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
Yukon	OEL STEL (mg/m³)	310 mg/m ³
Yukon	OEL STEL (ppm)	250 ppm
Yukon	OEL TWA (mg/m³)	260 mg/m³
Yukon	OEL TWA (ppm)	200 ppm
Diethanolamine (111-42-2)	· · · · · · · · · · · · · · · · · · ·	
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure
		by the cutaneous route, Confirmed Animal Carcinogen with
		Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m³)	15 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
Alberta	OEL TWA (mg/m³)	2 mg/m³
British Columbia	OEL TWA (mg/m³)	2 mg/m³
Manitoba	OEL TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
New Brunswick	OEL TWA (mg/m³)	2 mg/m³
New Brunswick	OEL TWA (ppm)	0.46 ppm
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
navut	OEL STEL (mg/m³)	26 mg/m ³
rechavut	OEL STEL (ppm)	6 ppm
Nunavut	OEL TWA (mg/m³)	13 mg/m³
Nunavut	OEL TWA (ppm)	3 ppm
Northwest Territories	OEL STEL (mg/m³)	26 mg/m ³
Northwest Territories	OEL STEL (ppm)	6 ppm
Northwest Territories	OEL TWA (mg/m³)	13 mg/m³
Northwest Territories	OEL TWA (ppm)	3 ppm
Ontario	OEL TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³ (inhalable fraction and vapor)
Québec	VEMP (mg/m³)	13 mg/m³
Québec	VEMP (ppm)	3 ppm
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³
Petroleum distillates, hydrot	reated light (64742-47-8)	
British Columbia	OEL TWA (mg/m³)	200 mg/m³ (application restricted to conditions in which
	· • · · ·	

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Use explosion-proof equipment. Take precautionary measures against static discharges. Gas detectors should be used when flammable gases/vapors may be released. Personal Protective Equipment: Insufficient ventilation: wear respiratory protection. Safety glasses. Gloves. Protective clothing.









Materials for Protective Clothing: Wear fire/flame resistant/retardant clothing.

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Hand Protection: Wear chemically resistant protective gloves.

e Protection: Chemical goggles or safety glasses. Skin and Body Protection: Wear fireproof clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>Information on Basic Physical and Chemical Properties</u>

Physical State : Liquid
Appearance : Cream

Odor Characteristic
Odor Threshold : Characteristic

pH : 7

Evaporation Rate: Not availableMelting Point: 0 °C (32 °F) (32 °F)Freezing Point: Not available

Boiling Point : Not available : Not available

Flash Point : 59 °C (138.2 °F). Does not sustain combustion according to the Sustained

Combustibility Test prescribed in part III, 32.5.2 of the United Nations

Manual of Tests and Criteria.

Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Flammability (solid, gas) Not available Not available Lower Flammable Limit Not available יים Pper Flammable Limit Not available por Pressure Not available Relative Vapor Density at 20 °C 1.012 (water = 1) **Relative Density**

Specific Gravity : 1.012

Solubility : Soluble in water.

Partition Coefficient: N-Octanol/Water : Not available

Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

Explosion Data - Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reacts with (strong) oxidizers: (increased) risk of fire.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen compounds. Sulfur compounds. lodine

vapour.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

1: 7

- __rious Eye Damage/Irritation: Not classified

pH: 7

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Respiratory or Skin Sensitization: Not classified

erm Cell Mutagenicity: Not classified

reratogenicity: Not available Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Kerosine, petroleum (8008-20-6)			
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rabbit	> 2000 mg/kg		
LC50 Inhalation Rat	> 5.28 mg/l/4h		
Methyl alcohol (67-56-1)			
LC50 Inhalation Rat	22500 ppm (Exposure time: 8 h)		
ATE US (oral)	100.00 mg/kg body weight		
ATE US (dermal)	300.00 mg/kg body weight		
ATE US (vapors)	3.00 mg/l/4h		
iethanolamine (111-42-2)			
)50 Oral Rat	1820 mg/kg		
Petroleum distillates, hydrotreated light (64742-47-8)			
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rabbit	> 2000 mg/kg		
LC50 Inhalation Rat	> 5.2 mg/l/4h		
Diatomaceous earth (61790-53-2)			
IARC Group	3		
Diethanolamine (111-42-2)			
IARC Group	2B		
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		

SECTION 12: ECOLOGICAL INFORMATION

 XIC	II V

Ecology - General: Harmful to aquatic life with long lasting effects.

Kerosine, petroleum (8008-20	0-6)	
LC50 Fish 1	12 - 5 mg/kg (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])	
NOEC chronic fish	0.098 mg/l (PETROTOX, Klimmish score: 2)	
Methyl alcohol (67-56-1)		
LC50 Fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
Diethanolamine (111-42-2)		
C50 Fish 1	4460 (4460 - 4980) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-	
	through])	
EC50 Daphnia 1	55 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

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1C 50 Fish 2	1200 (1200 - 1580) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
50 Other Aquatic Organisms 2	2.1 (2.1 - 2.3) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)		
trC50 (algae)	2.2 mg/l (Exposure time: 96 h - Species: Pseudokirchnerella subcapitata [Static])		
Petroleum distillates, hydrotreated lig	ht (64742-47-8)		
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC 50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
Persistence and Degradability			
Premium RV One Step HD Cleaner Wa	х		
Persistence and Degradability	Not established.		
Bioaccumulative Potential			
Premium RV One Step HD Cleaner Wa	x ,		
Bioaccumulative Potential	Not established.		
Methyl alcohol (67-56-1)			
BCF Fish 1	< 10		
Log Pow	-0.77		
Diethanolamine (111-42-2)			
BCF Fish 1	(no significant bioconcentration)		
Log Pow	-2.18 (at 25 °C)		
Petroleum distillates, hydrotreated lig	tht (64742-47-8)		
BCF Fish 1	61 - 159		
Mobility in Soil Not available			
Other Adverse Effects			
Other Information: Avoid release to the	ne environment.		

CTION 13: DISPOSAL CONSIDERATIONS

'aste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG/IMDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

Transport Hazard Class(es) Not regulated for transport

Transport by sea Not regulated for transport

In Accordance With IMDG Not regulated for transport

In Accordance With IATA/ICAO Not regulated for transport

In Accordance With TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

Fire hazard Immediate (acute) health hazard	
trol Act) inventory	
Kerosine, petroleum (8008-20-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
trol Act) inventory	
1	trol Act) inventory trol Act) inventory

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SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard		
	Immediate (acute) health hazard		
CADA Cartin 212 Projector Demonting	Fire hazard		
SARA Section 313 - Emission Reporting	1.0 %		
Diethanolamine (111-42-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313			
SARA Section 313 - Emission Reporting	1.0 %		
Petroleum distillates, hydrotreated light (64742-47-8)	 		
Listed on the United States TSCA (Toxic Substances Control Act			
SARA Section 311/312 Hazard Classes	Fire hazard		
	Immediate (acute) health hazard	<u> </u>	
US State Regulations			
Methyl alcohol (67-56-1)			
U.S California - Proposition 65 - Developmental Toxicity	WARNING: This product contains chemicals	known to the State of	
	California to cause birth defects.		
Diethanolamine (111-42-2)			
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals	known to the State of	
	California to cause cancer.		
Diatomaceous earth (61790-53-2)			
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptabl	e Ambient Concentrations		
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission I			
U.S Idaho - Occupational Exposure Limits - Mineral Dusts			
U.S Michigan - Occupational Exposure Limits - TWAs			
S Minnesota - Hazardous Substance List			
S Minnesota - Permissible Exposure Limits - TWAs			
RTK - U.S New Jersey - Right to Know Hazardous Substance L			
U.S New York - Occupational Exposure Limits - Mineral Dusts			
U.S New York - Occupational Exposure Limits - TWAs			
U.S Oregon - Permissible Exposure Limits - Mineral Dusts			
U.S Tennessee - Occupational Exposure Limits - TWAs			
U.S Texas - Effects Screening Levels - Long Term			
U.S Texas - Effects Screening Levels - Short Term			
U.S Washington - Permissible Exposure Limits - STELs			
- · · · · · · · · · · · · · · · · · · ·			
U.S Washington - Permissible Exposure Limits - TWAs			
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6)			
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)			
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)			
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Massachusetts - Oil & Hazardous Material List - Groundw			
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Massachusetts - Oil & Hazardous Material List - Groundw U.S Massachusetts - Oil & Hazardous Material List - Groundw	vater Reportable Concentration - Reporting Ca		
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Massachusetts - Oil & Hazardous Material List - Groundw U.S Massachusetts - Oil & Hazardous Material List - Groundw U.S Massachusetts - Oil & Hazardous Material List - Reportate	vater Reportable Concentration - Reporting Ca ple Quantity		
U.S Washington - Permissible Exposure Limits - TWAs Kerosine, petroleum (8008-20-6) U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Massachusetts - Oil & Hazardous Material List - Groundw U.S Massachusetts - Oil & Hazardous Material List - Groundw U.S Massachusetts - Oil & Hazardous Material List - Reportat U.S Massachusetts - Oil & Hazardous Material List - Soil Reportat U.S Massachusetts - Oil & Hazardous Material List - Soil Reportations	vater Reportable Concentration - Reporting Ca ple Quantity ortable Concentration - Reporting Category 1		
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- RTK U.S. Pennsylvania RTK (Right to Know) List
 - 3. Texas Effects Screening Levels Long Term
 - ು. 3. Texas Effects Screening Levels Short Term

Methyl alcohol (67-56-1)

- U.S. California Proposition 65 Maximum Allowable Dose Levels (MADL)
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Connecticut Volatile Substances
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Maine Chemicals of High Concern
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- اللـا.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
 - & Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- KrK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Skin Designations
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Skin Designations
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
- U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New York Occupational Exposure Limits Skin Designations
- U.S. New York Occupational Exposure Limits TWAs
- 11 S. New York Reporting of Releases Part 597 List of Hazardous Substances
 - S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour

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U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues 5. - Oregon - Permissible Exposure Limits - TWAs ندن. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories U.S. - Tennessee - Occupational Exposure Limits - Skin Designations U.S. - Tennessee - Occupational Exposure Limits - STELs U.S. - Tennessee - Occupational Exposure Limits - TWAs U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term U.S. - Vermont - Permissible Exposure Limits - Skin Designations U.S. - Vermont - Permissible Exposure Limits - STELs U.S. - Vermont - Permissible Exposure Limits - TWAs U.S. - Washington - Dangerous Waste - Discarded Chemical Products List U.S. - Washington - Permissible Exposure Limits - Skin Designations U.S. - Washington - Permissible Exposure Limits - STELs U.S. - Washington - Permissible Exposure Limits - TWAs Diethanolamine (111-42-2) U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) 11 S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) 5. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Illinois - Toxic Air Contaminant Carcinogens U.S. - Illinois - Toxic Air Contaminants U.S. - Louisiana - Reportable Quantity List for Pollutants U.S. - Maine - Air Pollutants - Hazardous Air Pollutants RTK - U.S. - Massachusetts - Right To Know List U.S. - Massachusetts - Toxics Use Reduction Act U.S. - Michigan - Occupational Exposure Limits - TWAs U.S. - Michigan - Polluting Materials List U.S. - Minnesota - Chemicals of High Concern U.S. - Minnesota - Hazardous Substance List U.S. - Minnesota - Permissible Exposure Limits - TWAs U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Environmental Hazardous Substances List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - New York - Occupational Exposure Limits - TWAs U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups PTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List K - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual

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- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
 - 3. South Carolina Toxic Air Pollutants Pollutant Categories
 - ಪ.ವ. Tennessee Occupational Exposure Limits TWAs
 - U.S. Texas Effects Screening Levels Long Term
 - U.S. Texas Effects Screening Levels Short Term
 - U.S. Vermont Permissible Exposure Limits TWAs
 - U.S. Washington Permissible Exposure Limits STELs
 - U.S. Washington Permissible Exposure Limits TWAs
 - U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
 - U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
 - U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Petroleum distillates, hydrotreated light (64742-47-8)

- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Canadian Regulations

Premium RV One Step HD	Cleaner Wax
WHMIS Classification	Class B Division 3 - Combustible Liquid
	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects





Distance cont. (C1700	F2 2)	
Diatomaceous earth (61790-		
Listed on the Canadian NDSL	(Non-Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Kerosine, petroleum (8008-2	20-6)	_
Listed on the Canadian DSL (I	Domestic Substances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Methyl alcohol (67-56-1)		
Listed on the Canadian DSL (I	Domestic Substances List)	
Listed on the Canadian IDL (II	ngredient Disclosure List)	
IDL Concentration 1 %		
WHMIS Classification	Class B Division 2 - Flammable Liquid	
	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects	
	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Diethanolamine (111-42-2)		
Listed on the Canadian DSL (I	Domestic Substances List)	
Listed on the Canadian IDL (II	ngredient Disclosure List)	
IDL Concentration 1 %		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Petroleum distillates, hydrot	treated light (64742-47-8)	
ted on the Canadian DSL (I	Domestic Substances List)	-
HMIS Classification	Class B Division 3 - Combustible Liquid	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS ntains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date

: 10/12/2015

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

ili Text Phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit, 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H370	Causes damage to organs
Н373	May cause damage to organs through prolonged or repeated exposure

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H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

NFPA Health Hazard

: 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA Fire Hazard

: 2 - Must be moderately heated or exposed to relatively

high temperature before ignition can occur.

NFPA Reactivity

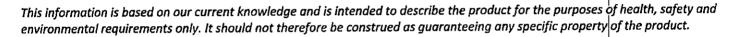
: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

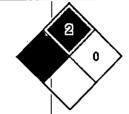


Starbrite®

Phone Number: (954)587-6280



North America GHS US 2012 & WHMIS 2



SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: RELIABLE INSTANT SHINE

Other means of identification

SDS number:

RE1000007576

Recommended restrictions Recommended use: Coating Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name:

RELIABLE PRODUCTS

Address:

639 FITCH STREET **ONEIDA, NY 13421**

ÚS

Telephone:

315-363-9202

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol

Category 1

Health Hazards

Skin Corrosion/Irritation

Category 2

Toxic to reproduction

Category 2

Specific Target Organ Toxicity -

Category 3

Single Exposure

(Narcotic effect.)

Specific Target Organ Toxicity -Repeated Exposure

Category 2

Aspiration Hazard

Category 1

Environmental Hazards

Acute hazards to the aquatic

Category 2

environment

Chronic hazards to the aquatic

Category 2

environment

Label Elements

Hazard Symbol:



Signal Word:

Danger

Revision Date: 08/31/2020

Hazard Statement:

Extremely flammable aerosol.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off

contaminated clothing. Collect spillage.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep

container tightly closed.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

iixtuies		
Chemical Identity	CAS number	Content in percent (%)*
Hexane	110-54-3	25 - <50%
Butane	106-97-8	20 - <50%
Siloxanes and Silicones, di-Me	63148-62-9	10 - <25%
Propane	74-98-6	5 - <10%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation:

Move to fresh air.

Skin Contact:

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated

clothing before reuse. Get medical attention.

Revision Date: 08/31/2020

Eye contact:

Immediately flush with plenty of water for at least 15 minutes. If easy

to do, remove contact lenses. Get medical attention.

Ingestion:

Rinse mouth. Call a physician or poison control center immediately.

Never give liquid to an unconscious person. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

Personal Protection for Firstaid Responders: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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Most important symptoms/effects, acute and delayed

Symptoms:

No data available.

Hazards:

No data available.

Indication of immediate medical attention and special treatment needed

Treatment:

Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards:

Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Accidental release measures:

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

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Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further eakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

Safe packaging materials:

No data available.

Storage Temperature:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

<u>upational Exposure I</u>	<u>-imits</u>	1			
Chemical Identity	Туре	Exposure L	imit Values	Source	
Hexane	TWA	50 ppm	180 mg/m3	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	PEL	500 ppm	1,800 mg/m3	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	REL	50 ppm	180 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards, a amended	35
	ΙTWA	50 ppm		US. ACGIH Threshold Limit Values, as amended	
Butane	REL	800 ppm	1,900 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards, a amended	35
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, a amended	35
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended	
-	TWA	300 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	REL	300 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, a amended	as
	PEL	300 ppm	1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, a amended	as
	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	STEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	

				
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL Ceil_Time	500 ppm 440 ppm	1,800 mg/m3	US. ACGIH Threshold Limit Values, as amended US. NIOSH: Pocket Guide to Chemical Hazards, as
		440 ppm	1,000 (119/115	amended
White mineral oil (petroleum) - Mist.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL		5 mg/m3	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
_	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
White mineral oil (petroleum) - Inhalable fraction.	TWA	_	5 mg/m3	US. ACGIH Threshold Limit Values, as amended
Solvent naphtha (petroleum), light aliph.	TWA,	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, dimethyl-	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants
<u> </u>	STEL	150 ppm	655 mg/m3	(29 CFR 1910.1000), as amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as
	STEL	150 ppm		amended US. ACGIH Threshold Limit Values, as amended
·	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	ŢWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
·	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
<u> </u>	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Passas	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Benzene	REL	0.1 ppm	<u> </u>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	1 ppm		US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	2.5 ppm 5 ppm	_	US. ACGIH Threshold Limit Values, as amended US. OSHA Specifically Regulated Substances (29
				CFR 1910.1001-1053), as amended
	OSHA_ACT	0,5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX, CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as

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	TVA	1 ppm	US, OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Naphthalene	STEL	15 ppm 75 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	10 ppm 50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	10 ppm 50 mg/m3	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	10 ppm 50 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 ppm	US. ACGIH Threshold Limit Values, as amended
	STEL	15 ppm 75 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/i (Blood)	ACGIH BEL
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL

Exposure guidelines

Hexane	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin,
Naphthalene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

Appropriate Engineering

Controls

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection:

No data available.

Skin and Body Protection:

Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific

information.

Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures:

Observe good industrial hygiene practices. When using do not smoke, Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

Spray Aerosol

Color:

No data available.

Odor:

No data available.

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Odor Threshold:

pH:

Freezing point: Boiling Point:

Flash Point: Evaporation Rate:

Flammability (solid, gas): Explosive limit - upper (%): Explosive limit - lower (%):

Vapor pressure: Vapor density (air=1):

Density: Relative density: Solubility in Water: Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:
Decomposition Temperature:
Kinematic viscosity:
Dynamic viscosity:
Explosive properties:

Oxidizing properties:

No data available.

No data available.

No data available. No data available.

Estimated -104.44 °C No data available.

No data available. Estimated 9.5 %(V) Estimated 1.9 %(V)

2,068 - 3,447 hPa (20 °C)

No data available. No data available. No data available. No data available. No data available.

No data available.
No data available.
No data available.
No data available.
No data available.
No data available.

No data available.

10. Stability and reactivity

Reactivity:

No data available.

Chemical Stability:

Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid:

Avoid heat or contamination.

Incompatible Materials:

No data available.

Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

ATEmix: 2,059.1 mg/kg

Dermal

Product:

ATEmix: 2,059.04 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product:

No data available.

Components:

Hexane

NOAEL (Mouse(Male), Inhalation, 13 Weeks): 500 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Male), Inhalation, 13 Weeks): 1,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Male), Inhalation, 16 Weeks): 3,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Female), Inhalation, 13 Weeks): 500 ppm(m) Inhalation

Experimental result, Key study

Butane LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Skin Corrosion/Irritation

Product:

No data available.

Components:

Hexane

Review Irritating.

Serious Eye Damage/Eye Irritation

Product:

No data available,

Components:

Hexane

Rabbit, 1 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product:

No data available.

Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:

No data available.

In vivo

Product:

No data available.

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Reproductive toxicity

Product:

No data available.

Components:

Hexane

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity

Product:

Single Exposure

Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Components:

Hexane

Inhalation - vapor: Nervous System - Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product:

No data available.

Components:

Hexane

May be fatal if swallowed and enters airways.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Components:

Hexane

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.101 - 2.981 mg/i

Mortality

Butane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Siloxanes and Silicones.

di-Me

LC 50 (Redear sunfish (Lepomis microlophus), 96 h): 26.27 - 56.73 mg/l

Mortality

Propane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Aquatic Invertebrates

Product:

No data available.

Components:

Hexane

EC 50 (Daphnia magna, 48 h): 21.85 mg/l QSAR QSAR, Key study

LC 50 (Water flea (Daphnia magna), 24 h): > 50 mg/l Mortality

Butane

LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Siloxanes and Silicones,

di-Me

LC 50 (Water flea (Daphnia magna), 48 h): 44.5 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Components:

Hexane

NOAEL (Oncorhynchus mykiss): 2.8 mg/l QSAR QSAR, Key study

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Aquatic Invertebrates

Product:

No data available.

Components:

Hexane

NOAEL (Daphnia magna): 4.888 mg/l QSAR QSAR, Key study

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and Degradability

Biodegradation

Product:

No data available.

Components:

Hexane

81 % Detected in water. Read-across based on grouping of substances

(category approach), Key study

Butane

100 % (385.5 h) Detected in water. Experimental result, Key study

Propane

100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

BOD/COD Ratio

Product:

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:

No data available.

Components:

Hexane

Pimephales promelas, Bioconcentration Factor (BCF): 501. 19 Aquatic

sediment QSAR, Key study

Partition Coefficient n-octanol / water (log Kow)

Product:

No data available.

Mobility in soil:

No data available.

Components:

Hexane

No data available.

Butane Siloxanes and Silicones, di-Me No data available.

December

No data available.

Propane

No data available.

Other adverse effects:

Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long

lasting effects.

13. Disposal considerations

Disposal instructions:

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging:

No data available.

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14. Transport information		
DOT UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Special precautions for user:	UN 1950 Aerosols, flammable 2.1 — II Not regulated.	
UN Number: UN Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Special precautions for user: Other information Passenger and cargo airc Cargo aircraft only:	UN 1950 Aerosols, flammable 2.1 – – Not regulated.	
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Special precautions for user:	UN 1950 Aerosols, flammable 2 F-D, S-U Not regulated.	
15. Regulatory information		
US Federal Regulations Restrictions on use: Not know TSCA Section 12(b) Export Noti		
US. Toxic Substances Contro	Act (TSCA) Section 5(a)(2) Final Significant New Use Rule	s (SNURs) (40

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

Chemical Identity Benzene	OSHA hazard(s) Flammability Cancer Aspiration
	Eye Blood Skin respiratory tract irritation

Central nervous system

CFR 721, Subpt E)

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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

HEXANE

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

RCRA HAZARDOUS WASTE NO. D001

CYCLOHEXANE

BENZENE, HEXAHYDRO-

XYLENE (MIXED)

BENZENE, METHYL-

ETHYLBENZENE

BENZENE

NAPHTHALENE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases aerosols, liquids, or solids), Skin Corrosion or Irritation, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure), Aspiration Hazard

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity

% by weight

Hexane

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Hexane

Butane

Cyclopentane, methyl-

Propane

White mineral oil (petroleum)

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Hexane

Butane

Cyclopentane, methyl-

Propane

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Hexane

Stockholm convention

Hexane

Rotterdam	convention
Hexane	

Kyoto protocol

Inventory Status:

Australia AICS Not in compliance with the inventory.

Canada DSL Inventory List On or in compliance with the inventory

EINECS, ELINCS or NLP Not in compliance with the inventory.

Japan (ENCS) List Not in compliance with the inventory.

China Inv. Existing Chemical Substances Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI)

Not in compliance with the inventory.

Canada NDSL Inventory Not in compliance with the inventory.

Philippines PICCS Not in compliance with the inventory.

US TSCA Inventory On or in compliance with the inventory

New Zealand Inventory of Chemicals Not in compliance with the inventory.

Japan ISHL Listing Not in compliance with the inventory.

Japan Pharmacopoeia Listing Not in compliance with the inventory.

Mexico INSQ Not in compliance with the inventory.

Ontario Inventory Not in compliance with the inventory.

Taiwan Chemical Substance Inventory Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

Issue Date: 08/31/2020

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Safety Data Sheet



* Trusted Quality Since 1921 * www.rustoleum.com

1. Identification

Product Name:

SPECLT SSPR 6PK EPOXY GLOSS WHITE Revision Date:

10/5/2023

Product Identifier:

7881830

Supercedes Date:

2/21/2023

Recommended Use:

Topcoat/Aerosois

Supplier:

Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Manufacturer:

Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer:

Regulatory Department

Emergency Telephone:

24 Hour Hotline: 847-367-7700

Hazards Identification

Classification

ymbol(s) of Product







Signal Word Danger

Possible Hazards

29% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, Single Exposure, category 3, NE	нзз6	May cause drowsiness or dizziness.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive Toxicity, category 1B	H360	May damage fertility or the unborn child.
STOT, Repeated Exposure, category 2	H373	May cause damage to organs.
Gases under Pressure; Compressed Gas	H280	Contains gas under pressure; may explode if heated.
	i	

GHS LABEL PRECAUTIONARY STATEMP201	MENTS Obtain special instructions before use.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ign	j ition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.	_
P251	Do not pierce or burn, even after use.	
7360	Do not breathe dust/fumes/gas/mist/vapours/spray.	
264	Wash thoroughly after handling.	
P280	Wear protective gloves / protective clothing / eye protection / face prote	ection.
P405	Store locked up.	
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P501 Dispose of contents and container in accordance with local, regional and national regulations.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

108+P313 IF exposed or concerned: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P317 Get medical help.

P319 Get medical help if you fell unwell.

P337+P317 If eye irritation persists: Get medical help.

3. Composition / Information on Ingredients

HAZARDOUS SUBSTANCES				
<u>Chémical Name</u>	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Propane	74-98-6	10-25	GHS04	H280
n-Butyl Acetate	123-86-4	10-25	GHS02-GHS07	H226-336
Acetone	67-64-1	10-25	GHS02-GHS07	H225-319-332-336
Titanium Dioxide	13463-67-7	10-25	Not Available	Not Available
Dimethyl Carbonate	616-38-6	2.5-10	GHS02-GHS06	H225-331
n-Butane	106-97-8	2.5-10	GHS04	H280
Xylenes (o-, m-, p- Isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
thyl 3-Ethoxypropionate	763-69-9	1.0-2.5	GHS06	н331
Hydrotreated Light Distillate	64742-47-8	1.0-2.5	GHS08	H304
Barium Sulfate	7727-43-7	1.0-2.5	GHS07	н332
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07- GHS08	H225-304-332-351-373
Solvent Naphtha, Light Aromatic	64742-95-6	0.1-1.0	GHS07-GHS08	Н304-332
Zirconium 2-Ethylhexanoate	22464-99-9	0.1-1.0	GHS07-GHS08	H315+H320-360
Zirconium Acetate	5153-24-2	<0.1	Not Available	Not Available
	1			1

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. ill a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat physician or poison control center immediately. Never give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:

Aqueous Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam. Full protective equipment including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferred. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): Not a combustible dust.

6. Accidental Release Measure's

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing furnes, vapors, or mist. Do not get in eyes, on skin or clothing. Do not puncture or incinerate (burn) container, even after use.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store "bove 120°F (49°C).

dvice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	15.0	50 ppm	150 ppm	150 ppm	N.E.
Acetone	67-64-1	15.0	250 ppm	500 ppm	1000 ppm	N.E.
Titanium Dioxide	13463-67-7	15.0	0.2 mg/m3	N.E.	15 mg/m3	N.E.
Dimethyl Carbonate	616-38-6	10.0	N.E.	N,E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	10.0	20 ppm	N.E.	100 ppm	N.E.
Ethyl 3-Ethoxypropionate	763-69-9	5.0	N.E.	N.E.	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	5,0	N.E.	N.E.	N.E	N.E.
Barium Sulfate	7727-43-7	5,0	5 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	1.0	N.E.	N.E,	N.E	N.E.
Zirconium 2-Ethylhexanoate	22464-99-9	1.0	5 mg/m3	10 mg/m3	5 mg/m3	N.E.
Zirconium Acetate	5153-24-2	0.1	5 mg/m3	10 mg/m3	5 mg/m3	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Facilities storing of utilizing this material should be equipped with an eyewash facility and a safety shower. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be be be believed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic approximately approved air purifying respirator with organic approximately approved air purifying respirator with organic approximately approved air purifying respirator with organic approved air purifying respirator with a purifying respirator

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Date Printed: 10/5/2023 Page 4 / 6

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

'GIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.844	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	
Decomposition Temp., °C:	N.D.	water:	Ņ.D.
Boiling Range, °C:	-37 - 537	Explosive Limits, vol%:	0.8 - 13.0
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-Ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	Ņ.D.
(See "Other information" Section	n for abbreviation legend)		

10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid excess heat. Keep from freezing.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid noke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

....zardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Can cause severe eye irritation. Causes eye and skin irritation which may lead to dermatitis with repeated exposures. Irritating, and may injure eye tissue if not removed promptly.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. Low hazard for usual industrial handling or commercial handling by trained personnel.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs.

EFFECTS OF OVEREXPOSURE - INGESTION: Substance may be harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)May cause genetic defects. May damage fertility or the unborn child.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

CUTE TOXICITY VALUES

he acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rab	bit > 21 mg/L Rat

Date Printed: 10/5/2023 67-64-1 Acetone 13463-67-7 Titanium Dioxide 616-38-6 Dimethyl Carbonate 106-97-8 n-Butane 330-20-7 Xylenes (o-, m-, p- Isomer 33-69-9 Ethyl 3-Ethoxypropionate 64742-47-8 Hydrotreated Light Distillar 7727-43-7 Barium Sulfate 100-41-4 Ethylbenzene 64742-95-6 Solvent Naphtha, Light Arch	te	5800 mg/kg Rat >10000 mg/kg Rat 13000 mg/kg Rat N.E. 3500 mg/kg Rat 5000 mg/kg Rat >5000 mg/kg Rat 307000 mg/kg Rat 3500 mg/kg Rat 8400 mg/kg Rat	>5000 mg/kg Rabbit N.E. >4350 mg/kg Rabbit >9500 mg/kg Rabbit >2000 mg/kg Rabbit	N.E. >5.36 mg/L Rat 658 mg/L Rat 29.08 mg/L Rat >5.96 mg/L Rat >5.900 mg/L Rat N.E. 17.4 mg/L Rat
12. Ecological Information		·		
ECOLOGICAL INFORMATION: Product is	a mixture o	f listed components. No ecotor	kicity data was found for	this product.
13. Disposal Information	-		: •	
DISPOSAL: Dispose of material in accordate containers. This product as supplied is a Uwaste (D001) in accordance with local, state Dispose of in accordance with U.S. EPA 40 mg/L.	S EPA defin	ed ignitable hazardous waste. al regulation. EPA Hazardous	Dispose of unusable pro Waste Number (RCRA)	duct as a hazardous
14. Transport Information		<u> </u>		
	.A.	International (IMDG) 1950	<u>Air (IATA)</u> 1950	TDG (Canada) N.A.
	Related Spray	Aerosols	Aerosols, flammable	Aerosois
Hazard Class:	I.A.	2	2.1	N.A.
Packing Group:	ı.A.	N.A.	N.A.	N.A.
Limited Quantity:	es es	Yes	Yes	Yes
15. Regulatory Information				
U.S. Federal Regulations:				
CERCLA - SARA Hazard Category		والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة		
This product has been reviewed according Superfund Amendment and Reauthorization meet the following categories:	ng to the EP	A 'Hazard Categories' promulg 986 (SARA Title III) and is cons	ated under Sections 311 sidered, under applicable	and 312 of the edefinitions, to
Gas under pressure, Carcinogenicity, Ro (single or repeated exposure)	productive t	oxicity, Serious eye damage o	eye irritation, Specific to	arget organ toxicity
SARA Section 313				
This product contains the following subs Superfund Amendment and Reauthorize	tances subje	ect to the reporting requirement 986 and 40 CFR part 372:	s of Section 313 of Title	III of the
Chemical Name Xylenes (o-, m-, p- Isomers) Barium Sulfate Ethylbenzene		<u>CAS-No.</u> 1330-20-7 7727-43-7 100-41-4		
Specialty Appliance Epoxy Gloss White				

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Safety Data Sheet



CORPORATION

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1. Identification

Product Name:

CC 1280Z 4PK MOLD CONTROL

Revision Date:

9/19/2019

Product Identifier:

25001

Supercedes Date:

9/17/2019

Recommended Use:

Biocidal Products

Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Manufacturer:

Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Siamons International, Inc. 48 Galaxy Blvd., Unit 413 Toronto, ON M9W 6C8

Canada

Phone: 001+416-213-0219 Toll Free: 1-866-811-4148

Siamons International, Inc. 48 Galaxy Blvd., Unit 413 Toronto, ON M9W 6C8

Canada

Phone: 001-416-213-0219 Toll Free: 1-866-811-4148

Preparer:

Supplier:

Regulatory Department

Emergency Telephone:

24 Hour Hotline: 847-367-7700

2. Hazard Identification

Classification

Symbol(s) of Product

No symbol is required per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200.

Signal Word

No Signal Word has been assigned.

Possible Hazards

1% of the mixture consists of ingredient(s) of unknown acute toxicity.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

Chemical Name

CAS-No. Wt.% Range GHS Symbols

GHS Statements

Trisodium phosphate

7601-54-9

1.0-2.5

GHS06

H311-332

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical ittention. Do NOT allow rubbing of eyes or keeping eyes closed.

IRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. If swallowed, rinse mouth with water. If feeling unwell, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:

None Known

UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards noted. Keep containers tightly closed. FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measure's

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Store in a dry, well ventilated place. Keep container tightly closed when not in use.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-T	WA OSHA PEL- CEILING
Trisodium phosphate	7601-54-9	5.0	N.E.	N.E.	N.E.	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88 2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

Page 3 / 5 9. Physical and Chemical Properties Appearance: Liquid Physical State: Liquid Odor: Characteristic Odor Threshold: N.E. Specific Gravity: 1.010 pH; 11.1 - 11.5 Freeze Point, °C: N.D. Viscosity: N.D. Solubility in Water: Soluble Partition Coefficient, n-octanol/ Decompostion Temp., °C: N.D. water: N.D. Boiling Range, °C: 100 - 537 Explosive Limits, vol%: N.A. - N.A. Flammability: Does not Support Combustion Flash Point, °C: 94 **Evaporation Rate:** Slower than Ether Auto-ignition Temp., °C; N.D. Vapor Density: Heavier than Air Vapor Pressure: N.D. (See "Other information" Section for abbreviation legend) 10. Stability and Reactivity CONDITIONS TO AVOID: No Information INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies. HAZARDOUS DECOMPOSITION: When heated to decomposition, it emits acrid smoke and irritating fumes. HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. STABILITY: This product is stable under normal storage conditions. 11. Toxicological Information EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritating, and may injure eye tissue if not removed promptly. EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Low hazard for usual industrial handling or commercial handling by trained personnel. EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. EFFECTS OF OVEREXPOSURE - INGESTION: Substance may be harmful if swallowed. EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information PRIMARY ROUTE(S) OF ENTRY: No Information **ACUTE TOXICITY VALUES** The acute effects of this product have not been tested. Data on individual components are tabulated below: CAS-No. Chemical Name Oral LD50 Dermal LD50 Vapor LC50 7601-54-9 Trisodium phosphate >2000 mg/kg Rat >300 mg/kg Rabbit N.E. N.E. - Not Established 12. Ecological Information ECOLOGICAL INFORMATION: Product is a mixture of listed components. 13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances.

14. Transport Informa	tion			
	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	NA.	N.A.	N.A.	N.A.
Proper Shipping Name:	Not Regulated	Not Regulated	Not Regulated	Not Regulated
	1			
Hazard Class:	N.A.	N.A.	N.A.	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	No	No	No	No
15. Regulatory Inform	ation			
U.S. Federal Regulatio				
CERCLA - SARA Hazard Ca				
•		A 'Hazard Categories' promul	Mated under Sections 211	and 212 of the
Superfund Amendment and meet the following categorie	Reauthorization Act of 1	986 (SARA Title III) and is col	nsidered, under applicable	e definitions, to
None Known				
Sara Section 313:				میرند _ک و سیبیت و میبودی سیب. ا
This product contains the fo Amendment and Reauthoriz	llowing substances subjectation Act of 1986 and 40	ect to the reporting requirement	nts of Section 313 of Title	III of the Superfund
No Sara 313 components ex		•		
Toxic Substances Control A	*			
This product contains the for the United States:	llowing chemical substan	nces subject to the reporting re	equirements of TSCA 12(t) if exported from
No TSCA 12(b) components	exist in this product.			
U.S. State Regulations:	:		ļ	
California Proposition 65:				
WARNING: No Prop. 65 war	rning is required			
THE TOP, 00 Wal	rning is required.			
16. Other Information				
HMIS RATINGS				
Health: 2* Flammabi	lity: 1	Physical Hazard: 0	Personal Protect	ion: X
NFPA RATINGS Health: 2 Flammabil	lity: 1	Instability 0		
Volatile Organic Compounds	0.00%			
SDS REVISION DATE:	9/19/2019			
REASON FOR REVISION:				
Legend: N.A Not Applicable,	 N.E Not Established. N	N.D Not Determined		
- ,				

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Safety Data Sheet



CORPORATION * Trusted Quality Since 1921 *

www.rustoleum.com

1. Identification

Product Name:

SPECLT GLOSS APPLIANCE TOUCH-UP

WHITE

Revision Date:

8/10/2017

Product Identifier:

203000

Supercedes Date:

8/25/2016

Product Use/Class:

Touch-Up Paint/Appliance

Supplier:

Rust-Oleum Corporation 11 Hawthorn Parkway

Vernon Hills, IL 60061

USA

Manufacturer:

Rust-Oleum Corporation

11 Hawthorn Parkway Vernor Hills, IL 60061

USA

Preparer:

Regulatory Department

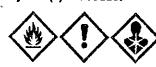
Emergency Telephone:

24 Hour Hotline: 847-367-7700

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word Danger

GHS HAZARD STATEMENTS

Flammable Liquid, category 2 Reproductive Toxicity, category 2 STOT, single exposure, category 3, NE STOT, repeated exposure, category 2 Skin Irritation, category 2

Skin Sensitizer, category 1 **GHS LABEL PRECAUTIONARY STATEMENTS**

H225 Highly flammable liquid and vapour. H361

Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged of repeated exposure.

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

P280

P370+P378

P403+P235

308+P313

P304+P340

P501

P201

405

P271

P210

P303+P361+P353

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to extinguish.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local, regional and national regulations.

Obtain special instructions before use.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Date F	rinted:	8/10/2017
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P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 For specific treatment see label

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P272 Contaminated work clothing should not be allowed out of the workplace.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

GHS SDS PRECAUTIONARY STATEMENTS

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P363 Wash contaminated clothing before reuse.

3. Composition / Information On Ingredients

<u>CAS-No.</u>	Wt.% Range	GHS Symbols	GHS Statements
108-65-6	25-50	GHS02	H226
108-88-3	10-25	GHS02-GHS07- GHS08	H225-304-315-332-336-361-373
13463-67-7	10-25	Not Available	Not Available
7631-86-9	1.0-2.5	Not Available	Not Available
64742-47-8	1.0-2.5	GHS08	 H304
8052-41-3	0.1-1.0	GHS08	 H304-372
97-88-1	0.1-1.0	GHS02-GHS07	H226-315-317-319-332-335
	108-65-6 108-88-3 13463-67-7 7631-86-9 64742-47-8 8052-41-3	Range 108-65-6 25-50 108-88-3 10-25 13463-67-7 10-25 7631-86-9 1.0-2.5 64742-47-8 1.0-2.5 8052-41-3 0.1-1.0	Range 108-65-6 25-50 GHS02 108-88-3 10-25 GHS02-GHS07-GHS08 13463-67-7 10-25 Not Available 7631-86-9 1.0-2.5 Not Available 64742-47-8 1.0-2.5 GHS08 8052-41-3 0.1-1.0 GHS08

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:

Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Isolate from heat, electrical equipment, sparks and open flame. Vapors can travel to source of ignition and flash back. Vapors may form explosive mixtures with air. No unusual fire or explosion hazards noted. osed containers may explode when exposed to extreme heat due to buildup of steam. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Use only with adequate ventilation precautions even after container is emptied because it may retain product residues. Remove contaminated cothing and launder before reuse. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Avoid excess heat. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids.

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
1-Methoxy-2-Propyl Acetate	108-65-6	40,0	N.E.	N.E.	N.E.	
Toluene	108-88-3	25.0	20 ppm	N.E.		N.E.
Titanium Dioxide	13463-67-7	20.0	10 mg/m3	N.E.	200 ppm	300 ppm
Amorphous Silica	7631-86-9	5.0	N.E.	N.E.	15 mg/m3 N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.		N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	N.E.	N.E.
Butyl Methacrylate	97-88-1	1.0	N.E.	N.E.	500 ppm N.E.	N.E. N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve crossventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

9. Physical and Chemical Properties

Appearance: Liquid Physical State: _iquid Odor: Solvent Like Odor Threshold: N.E. Relative Density: 1.125 pH: N.A. Freeze Point, °C: N.D. Viscosity: N.D. Solubility in Water: Negligible Partition Coefficient, n-octanol/ Decompostion Temp., °C: N.D. water: N.D. Boiling Range, °C: 106 - 169 Explosive Limits, vol%: 1.2 - 7.1 Flammability: Supports Combustion Flash Point, °C: 13 **Evaporation Rate:** Slower than Ether Auto-ignition Temp.. °C: N.D. Vapor Density: Heavier than Air Vapor Pressure: N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid all possible sources of ignition. Avoid temperatures above 120°F (49°C). Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May be absorbed through the skin in harmful amounts. Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. May cause headaches and dizziness. High vapor concentrations are irritating to the eyes, nose, throat and lungs. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

_			u. u. u. u. u. u. u. u. u. u. u. u.		
<u>CAS-No.</u>	Chemical Name	Oral LD50 Dermal LD50	Vanor I C50		
108-65-6 108-88-3 13463-67-7 7631-86-9 64742-47-8 97-88-1	1-Methoxy-2-Propyl Aceta Toluene Titanium Dioxide Amorphous Silica Hydrotreated Light Distilla Butyl Methacrylate	8532 mg/kg Rat >5000 mg/kg Rabbit 2600 mg/kg Rat 12000 mg/kg Rabbit >10000 mg/kg Rat 2500 mg/kg >5000 mg/kg Rat >2000 mg/kg Rabbit >5000 mg/kg Rat >2000 mg/kg Rabbit	<u>Vapor LC50</u> N.I. 12.5 mg/L Rat N.I. 25 mg/L >5000 mg/L Rat		
07 00 1	Butyl Welliaci ylate	16000 mg/kg Rat 10181 mg/kg Rabbit	N.I.		

N.I. - No Information

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

		sewer systems.		
14. Transport Inform	nation			
UN Number:	Domestic (USDOT) N.A.	International (IMDG) 1263	<u>Air (IATA)</u> 1263	TDG (Canada) N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Paint	Paint	Paint Products in Limited Quantities
Hazard Class:	NA.	3	3	N.A.
Packing Group:	NA.	11	ii	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes
15. Regulatory Inform	mation			
U.S. Federal Regulati	ions:	<u></u>		
CERCLA - SARA Hazard				
This product has been rev	riewed according to the El	PA 'Hazard Categories' promulo 1986 (SARA Title III) and is con	gated under Sections 3 sidered, under applica	311 and 312 of the able definitions, to
ara Section 313:				
This product contains the s Superfund Amendment an	following substances subj	ect to the reporting requiremen 1986 and 40 CFR part 372:	ts of Section 313 of Tit	ile III of the
<u>Chemical Name</u> Toluene		<u>CAS-No.</u> 108-88-3	,	
Toxic Substances Control	Act:			
This product contains the the United States:	following chemical substa	nces subject to the reporting re	quirements of TSCA 1	2(b) if exported from

No TSCA 12(b) components exist in this product.

16. Other Information

HMIS RATINGS

Health:

2*

Flammability:

3 Physical Hazard:

Λ

Personal Protection:

Х

NFPA RATINGS

Health: 2

Flammability:

3

Instability

0

VOLATILE ORGANIC COMPOUNDS, g/L

669

SDS REVISION DATE:

8/10/2017

REASON FOR REVISION:

Product Composition Changed

Substance and/or Product Properties Changed in Section(s):

02 - Hazard Identification 05 - Fire-fighting Measures

09 - Physical & Chemical Properties

15 - Regulatory Information 16 - Other Information Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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PRESTONE ® DexCool 50/50 Prediluted Extended Life ANTIFREE ZE/COOLANT

Date Prepared: 09/17/2019

SAFETY DATA SHEET

1. Product And Company Identification

SDS ID: SDS484

PRODUCT NAME:

Prestone ® DexCool 50/50 Prediluted Extended Life Antifreeze/Coolant

PRODUCT NUMBER:

71159, AF850, AF850-55, 88862645, 88864314, 88864315, 9986100-1KL, AF850-55/F-M1,

AF850/2F, 71159/2F, 71159/2FC, 71159/2FC3, AF850/XF, AF850-72/F

FORMULA NUMBER:

YA-956B-P50, YA-956B-P50-B

MANUFACTURER:

CANADIAN OFFICE:

MEXICO OFFICE:

Prestone Products

69 Eagle Rd.

Prestone Canada

ASG Operations Mexico S. de R.L. de C.V.

Corporation

33 MacIntosh Blvd.

Carretera Mexico Cuautitlan, Kilometro 31.5, Nave

Concord, ON L4K 4L5

Industrial 5.

Danbury, CT 06810.

Loma Bonita, Cuautitlan, Mexico, 54800

MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:

(888)269-0750 (in the US and Canada)

01-800-715-4135 (in Mexico)

TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):

CHEMTREC 1-800-424-9300 (in the US and Canada) +1 703 741-5970 (outside the US and Canada)

PRODUCT USE: Automobile Antifreeze - consumer product

RESTRICTIONS ON USE: None identified

2. Hazards Identification

GHS/HAZCOM 2012 Classification:

Health	Physical
Acute Toxicity Category 4	Not Hazardous
Specific Target Organ Toxicity – Repeated Exposure	1
Category 2	
Toxic to Reproductive Category 2	

Label Elements





WARNING!

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373 May cause damage to kidneys through prolonged or repeated exposure.

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapors.



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P264 Wash exposed skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective gloves and eye protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

P330 Rinse mouth.

P308 + P313 IF exposed or concerned: Get medical advice.

Disposal:

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

3. Composition/Information on Ingredients

Component	CAS No.	Amount
Ethylene Glycol	107-21-1	30-60%
Water	7732-18-5	30-60%
2-Ethyl Hexanoic Acid, Sodium Salt	19766-89-3	1-5%
Diethylene Glycol	111-46-6	0-5%

The exact concentrations are a trade secret.

4. First Aid Measures

INHALATION: Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get medical attention.

SKIN CONTACT: Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. If irritation persists, get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Seek immediate medical attention. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

MOST IMPORTANT SYMPTOMS: May cause eye irritation. Inhalation of mists may cause nose and throat irritation and nervous system effects. Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects. May cause developmental effects based on animal data.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: Seek immediate medical attention for large ingestions.

NOTES TO PHYSICIAN: The principal toxic effects of ethylene glycol, when swallowed, are kidney damage and metabolic acidosis. The combination of metabolic acidosis, an osmol gap and oxalate crystals in the urine is evidence of ethylene glycol poisoning. Pulmonary edema with hypoxemia has been described in a number of patients following poisoning with ethylene glycol. Respiratory support with mechanical ventilation may be required. There may be cranial nerve involvement in the late stages of toxicity from swallowed ethylene glycol. In particular, effects have been reported involving the seventh, eighth, and ninth cranial nerves, presenting with bilateral facial paralysis, diminished hearing and dysphagia.

Ethanol is antidotal and its early administration may block the formation of nephrotoxic metabolites of ethylene glycol in the liver. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood



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levels should be checked frequently. Hemodialysis may be required. 4-Methyl pyrazole (Fomepizole®), a potent inhibitor of alcohol dehydrogenase, has been used the apeutically to decrease the metabolic consequences of ethylene glycol poisoning. Fomepizole® is easier to use clinically than ethanol, does not cause CNS depression or hypoglycemia and requires less monitoring than ethanol. Additional therapeutic modalities which may decrease the adverse consequences of ethylene glycol metabolism are the administration of both thiamine and pyridoxine. As there are complicated and serious overdoses, we recommend you consult with the toxicologists at your poison control center.

5. Firefighting Measures

spray, carbon dioxide or dry chemical.

SUITABLE EXTINGUISHING MEDIA: For large fires, use alcohol type or all-purpose foams. For small fires, use water

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: A solid stream of water or foam directed into hot, burning liquid can cause frothing. Burning may produce carbon monoxide and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Do not spray pool fires directly. Firefighters should wear positive pressure selfcontained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate protective clothing and equipment (See Section 8).

METHODS AND MATERIALS FOR CONTAINMENT/CLEANUP: Collect with absorbent material and place in appropriate, labeled container for disposal or, if permitted flush spill area with water.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Harmful or Fatal if Swallowed. Do not drink antifreeze or solution. Avoid eye and prolonged or repeated skin contact. Avoid breathing vapors or mists. Wash exposed skin thoroughly with soap and water after use. Do not store in opened or unlabeled containers. Keep container away from open flames and excessive heat. Do not reuse empty containers unless properly cleaned. Empty containers retain product residue and may be dangerous. Do not cut, weld, drill, etc. containers, even empty.

Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without any obvious ignition sources. Published "autoignition" or "ignition" temperatures cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Use of this product in elevated temperature applications should be thoroughly evaluated to assure safe operating conditions.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store away from excessive heat and oxidizers.

NFPA CLASSIFICATION: IIIB (May qualify for the following consumer quantity exemption: Consumer products that contain not more than 50 percent by volume of water-miscible flammable or combustible liquids, with the remainder of the product consisting of components that do not burn and where packaged in individual containers that do not exceed 1.3 gal (5 L) capacity.)



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Ŕ.	Exposure	Controls /	Personal	Protection
٧٠	CALCORIC	COULT OFF 1	A CLOUMAL	TIOLOCCHOM

EXPOSURE GUIDELINES

CHEMICAL	EXPOSURE LIMIT		
Ethylene Glycol	25 ppm TWA, 50 ppm STEL ACGIH TLV (as vapor) 10 mg/m ³ TWA ACGIH TLV (as inhalable fraction of the		
	aerosol)		
Diethylene Glycol	10 mg/m³ TWA AIHA WEELs		
2-Ethyl Hexanoic Acid	None Established		

APPROPRIATE ENGINEERING CONTROLS: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For operations where the exposure limit is exceeded a NIOSH approved respirator with organic vapor cartridges and dust/mist prefilters or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Chemical resistant gloves such as neoprene or PVC where contact is possible.

EYE PROTECTION: Splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact.

9. Physical and Chemical Properties

APPEARANCE:	Orange liquid	ODOR:	Characteristic odor
ODOR THRESHOLD:	None	pH:	9.0
MELTING/FREEZING POINT:	-34°F (-36°C)	BOILING POINT/RANGE:	229°F (109°C)
FLASH POINT:	>220°F (104°C)	EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID, GAS)	Not Applicable	FLAMMABILITY LIMITS:	LEL: Not determined UEL: Not determined
VAPOR PRESSURE:	< 0.1 mmHg @ 68°F	VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	1.07	SOLUBILITIES	Water: 100%
PARTITION COEFFICIENT (n-octanol/water)	Not determined	AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined	VISCOSITY:	Not determined

10. Stability and Reactivity

REACTIVITY: Normally unreactive

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Reaction with strong oxidizers will generate heat.



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CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace, may produce nausea, vomiting, headache, dizziness and irregular eye movements.

SKIN CONTACT: No evidence of adverse effects from available information.

EYE CONTACT: Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

INGESTION: May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary edema may develop. Severe kidney damage which may be fatal may follow the swallowing of ethylene glycol. A few reports have been published describing the development of weakness of the facial muscles, diminishing hearing, and difficulty with swallowing, during the late stages of severe poisoning.

CHRONIC EFFECTS: Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, particularly dizziness and jerking eye movements. Prolonged or repeated skin contact may cause skin sensitization and an associated dermatitis in some individuals. Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined. 2-Ethyl Hexanoic Acid, Sodium Salt is suspected of causing developmental effects based on animal data.

CARCINOGENICITY LISTING: None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

ACUTE TOXICITY VALUES:

Ethylene Glycol:

LD50 Oral Rat: 4700 mg/kg

LD50 Skin Rabbit: 9530 mg/kg

Diethylene Glycol:

LD50 Oral Rat: 12,565 mg/kg

LD50 Skin Rabbit: 11,890 mg/kg

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH:

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses. Also, in a preliminary study to assess the effects of exposure of pregnant rats and mice to aerosols at concentrations 150, 1,000 and 2,500 mg/m3 for 6 hours a day throughout the period of organogenesis, teratogenic effects were produced at the highest concentrations, but only in mice. The conditions of these latter experiments did not allow a conclusion as to whether the developmental toxicity was mediated by inhalation of aerosol, percutaneous absorption of ethylene glycol from contaminated skin, or swallowing of ethylene glycol as a result of grooming the wetted coat. In a further study, comparing effects from high aerosol concentration by whole-body or nose-only exposure, it was shown that nose-only exposure resulted in maternal toxicity (1,000 and 2,500 mg/m3) and developmental toxicity in with minimal evidence of



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teratogenicity (2,500 mg/m3). The no-effects concentration (based on maternal toxicity) was 500 mg/m3. In a further study in mice, no teratogenic effects could be produced when ethylene glycol was applied to the skin of pregnant mice over the period of organogenesis. The above observations suggest that ethylene glycol is to be regarded as an animal teratogen; there is currently no available information to suggest that ethylene glycol caused birth defects in humans. Cutaneous application of ethylene glycol is ineffective in producing developmental toxicity; exposure to high aerosol concentration is only minimally effective in producing developmental toxicity; the major route for producing developmental toxicity is perorally.

Two chronic feeding studies, using rats and mice, have not produced any evidence that ethylene glycol causes dose-related increases in tumor incidence or a different pattern of tumors compared with untreated controls. The absence of carcinogenic potential for ethylene glycol has been supported by numerous invitro genotoxicity studies showing that it does not produce mutagenic or clastogenic effects.

In a study of Wistar rats, adverse developmental results were reported at a dose of 100 mg/kg of body weight for 2-Ethyl Hexanoic Acid, Sodium Salt.

This product contains less than 0.2% tolytriazole which has demonstrated mutagenic activity in a bacterial test system. A correlation has been established between mutagenic activity and carcinogenic activity for many chemicals. Tolytriazole has not been identified as a carcinogen or probable carcinogen by NTP, IARC, ACGIH, or OSHA.

12. Ecological Information

ECOTOXICITY:

Ethylene Glycol: LC50 Fathead Minnow <10,000 mg/L/96 hr.

EC50 Daphnia Magna 100,000 mg/L/48 hr Bacterial (Pseudomonas putida): 10,000 mg/l

Protozoa (Entosiphon sulcatum and Uronema parduczi; Chatton-Lwoff): >10,000 mg/l

Algae (Microcystis aeruginosa): 2,000 mg/l

Green algae (Scenedesmus quandricauda): >10,000 mg/l

Diethylene Glycol: LC50 western mosquitofish >32,000 mg/L/96 hr

PERSISTENCE AND DEGRADABILITY:

Ethylene Glycol is readily biodegradable (97-100% in 2-12 days). Diethylene glycol is readily biodegradable (>70% in 19 days).

BIOACCUMULATIVE POTENTIAL:

Ethylene glycol: A BCF of 10, reported for ethylene glycol in fish, Golden ide (Leuciscus idus melanotus), after 3 days of exposure suggests the potential for bio concentration in aquatic organisms is low.

Diethylene glycol: An estimated BCF of 3 suggests the potential for bio concentration in aquatic organisms is low. MOBILITY IN SOIL: Ethylene glycol and diethylene glycol are highly mobile in soil.

OTHER ADVERSE EFFECTS: None known

13. Disposal Considerations

Dispose of product in accordance with all local, state/provincial and federal regulations.

14. Transport Information

U.S. DOT HAZARD CLASSIFICATION: Not regulated (unless package contains a reportable quantity)

Note: IF A SHIPMENT OF A REPORTABLE QUANTITY (9,090 LBS/933 GAL.) IN A SINGLE PACKAGE IS INVOLVED. THE FOLLOWING INFORMATION APPLIES:

PROPER SHIPPING NAME: RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)



PRESTONE ® DexCool 50/50 Prediluted Extended Life ANTIFREE ZE/COOLANT

Date Prepared: 09/17/2019

UN NUMBER: UN3082
PACKING GROUP: III
LABELS REOUIRED: Class 9

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION: Not Regulated

CANADIAN TDG CLASSIFICATION: Not Regulated

15. Regulatory Information

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Ethylene Glycol (60% maximum) of 5,000 lbs., is 8,333 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol

107-21-1

30-60%

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CALIFORNIA PROPOSITION 65: This product contains the following chemicals regulated under California Proposition 65: Ethylene Glycol 107-21-1 30-60% developmental

EPA TSCA INVENTORY: All of the components of this material are listed on or exempt from the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS): All of the ingredients are listed on or exempt from the EINECS inventory.

AUSTRALIA: All of the ingredients of this product are listed on or exempt from the Australian Inventory of Chemical Substances. The sodium salt of 2-ethylhexanoic acid is not listed on the chemical inventory however, it is a reaction by product of the neutralization of antifreeze and therefore is exempt.

JAPAN: All of the ingredients of this product are listed on or exempt from the Japanese Existing and New Chemical Substances (MITI) List.

CHINA: All of the ingredients of this product are listed on or exempt from the Inventory of Existing Chemical Substance in China (IECSC).

KOREA: All of the ingredients of this product are listed on or exempt from the Korean Existing Chemical List (KECL).

PHILIPPINES: All of the ingredients of this product are listed on or exempt from the Philippine Inventory of Chemical and Chemical Substance (PICCS)

NEW ZEALAND: All of the components of this product are listed on or exempt from the New Zealand Inventory of Chemicals. (NZIoC)

16. Other Information





PRESTONE ® DexCool 50/50 Prediluted Extended Life ANTIFREEZE/COOLANT

Date Prepared: 09/17/2019

NFPA RATING - FIRE: 1

HEALTH: 2

INSTABILITY: 0

REVISION SUMMARY: Section 1: Part Number

SDS Date of Preparation/Revision: September 17, 2019

This SDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While Prestone Products Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Prestone Products Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

PENNZOIL® SAE 5W-30 MOTOR OIL

TECHNICAL DATA SHEET



Pennzoil® Motor Oil helps prevent dirt and contaminants from turning into performance robbing deposits to protect your engine between every oil change. It provides proven wear protection, and it's backed by our 10-year, 300,00-mile warranty*. Because at Pennzoil® we know, a cleaner engine is better protected and responsive.

*Up to 10 years or 300,000 miles, whichever comes first, if you exclusively use Pennzoil® motor oil, Pennzoil® Professional® motor oil, Pennzoil® Gold Synthetic Blend motor oil, Pennzoil® High Mileage motor oil, Pennzoil® High Mileage Full Synthetic motor oil, or Pennzoil® Full Synthetic motor oil, Your engine must have fewer than 125,000 miles and have been manufactured in the past 72 months. To maintain your warranty, change your vehicle's oil and oil filter at least as often as recommended by the vehicle manufacturer. Enrollment required. Keep your receipts. Other conditions apply. See pennzoil.com/warranty to enroll and for full details and terms.

PERFORMANCE, FEATURES & BENEFITS

- Pennzoil® SAE 5W-30 Motor Oil meets the toughest industry standards.
- · Protects between oil changes
- · Provides proven wear protection
- Helps prevent sludge and other damaging deposits
- · Compatible with engine seals and all conventional oils
- Keeps your engine clean and responsive
- Suitable for all car, SUV, light van and truck gasoline engines; under all driving conditions.

MAIN APPLICATIONS

Pennzoil* SAE 5W-30 Motor Oil is recommended for use in all vehicles requiring the use of SAE 5W-30 viscosity grade engine oils under all driving conditions.

Pennzoil® SAE 5W-30 Motor Oil can be mixed with other synthetic and mineral oils and is recommended for use in all vehicle applications under all driving conditions.

Always consult your owner's manual for the correct viscosity grade and performance recommendation required for your vehicle.

This product is harmonized with other existing products within the overall SOPUS portfolio.

SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

Exceeds the requirements of the following industry and OEM specifications:

- API SP-Resource Conserving and all previous Categories
- ILSAC GF-6A and all previous ILSAC Standards
- Chrysler MS-6395
- Ford WSS-M2C961-A1

To find the right Pennzoil product for your vehicles and equipment, please consult www.pennzoil.com to look up the right motor oil recommendation using our oil selector.

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PENNZOIL® SAE 5W-30 MOTOR OIL

TYPICAL PHYSICAL CHARACTERISTICS

Properties			Method	PENN	ZOIL® SAE 5W-30 Motor Oil
Viscosity Grade			'SAE J300		5W-30
Service Category				1	SP-RC
ILSAC				Γ !	GF-6A
ACEA					N/A
Density		kg/m³	ASTM D4052		860
Flash Point			ASTM D93	1	216
Pour Point		_	ASTM D97		-42
Kinematic Viscosity	@100°C	cSt	ASTM D445		10.65
Kinematic Viscosity	@40ºC	cSt	ASTM D445		64.6
Viscosity Index			ASTM D2270	;	158
CCS Viscosity	@-30°C	сР	ASTM D5293		5 800
MRV Viscosity	@-35°C	сР	ASTM D4684	1	23 000

These characteristics are typical of current production. While future production will conform to Pennzoil's* specification, variations in these characteristics may occur.

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

Pennzoil® SAE 5W-30 Motor Oil is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from https://www.epc.shell.com

Safety data sheet available on request. For Health Emergencies or Consumer Information call 1-877-276-7285.

Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

ADDITIONAL INFORMATION

Advice

Advice on applications not covered here may be obtained from your Pennzoil® Lubricants distributor representatives or local technical helpdesk.

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SAFETY DATA SHEET

Revision Date 21-Mar-2019

Version 12

		<u> </u>
	1. IDENTIFICATION	
Product identifier Product Name	HIGH STRENGTH THREADLOCKER RED 6ML	
Other means of identification Product Code	 27100	
Recommended use of the chemical a		
	Adhesive No information available	
Details of the supplier of the safety d	ata sheet	
Manufacturer Address	May Also Be Dist	! ributed by:
ITW Permatex	ITW Permatex Car	ada
6875 Parkland Blvd.	101-2360 Bristol C	
Solon, Ohio 44139 USA	Oakville, ON Cana	
Telephone: 1-87-Permatex	Telephone: (800) 9	24-6994
(866) 732-9502		
24-hour emergency phone number		
Chem-Tel: 800-255-3924		
International Emergency:	•	
00+1+ 813-248-0585		,
Contract Number: MIS0003453		
E-mail address: mail@permatex.com		
	2. HAZARDS IDENTIFICATION	-
	All to the little to the littl	
Classification		
OSHA Regulatory Status This chemical is considered hazardous	by the 2012 OSHA Hazard Communication Standard (29 CFR 19	10.1200)
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Carcinogenicity	Category 2	
Specific target organ toxicity (single ex	cosure) Category 3	
Label elements		
	Emergency Overview	
Signal word	mineral eventuen	
Warning		
waiting		
Causes skin irritation		
Causes serious eye irritation		
Suspected of causing cancer		
May cause respiratory irritation		
,		
'		
ı		

Page 1/8





Appearance Red

Physical state Liquid

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Avoid breathing dust/fume/gas/mist/vapbrs/spray

Use only outdoors or in a well-ventilated area

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Not applicable

Unknown acute toxicity

25.63 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
DIMETHYLBENZYL HYDROPEROXIDE	80-15-9	1 - 5
CUMENE	98-82-8	0.1 - 1

4. FIRST AID MEASURES

Description of first aid measures

General advice

Get medical advice/attention if you feel unwell.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician.

Take off contaminated clothing and wash before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

None in particular.

Explosion data

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions | Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.

Use personal protective equipment as required.

Environmental precautions

Environmental precautions | See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel

into suitable containers for disposal.

Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations.

	Ï		<u> </u>			
	7. HANDLING	AND STORAGE				
recautions for safe handling						
dvice on safe handling	vapors or mists. Avoid cor	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required				
onditions for safe storage, inc	luding any incompatibilities					
torage Conditions	Store locked up.					
compatible materials	Strong oxidizing agents, P	eroxides, Reducing agents				
8.	EXPOSURE CONTROLS	PERSONAL PROTECTION	, ,			
ontrol parameters						
xposure Guidelines						
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH			
CUMENE 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ (vacaled) TWA: 50 ppm (vacated) TWA: 245 mg/m³ (vacated) S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³			
IOSH IDLH Immediately Dange	rous to Life or Health	S*				
ther Information	Vacated limits revoked by (11th Cir., 1992).	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2 (11th Cir., 1992).				
ppropriate engineering contro	<u>ols</u>					
Engineering Controls Showers Eyewash stations Ventilation systems						
ndividual protection measures	, such as personal protective	<u>equipment</u>				
Eye/face protection	Tight sealing safety goggl	es.				
Skin and body protection Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.			PVC gloves.			
Respiratory protection	Use NIOSH-approved air- appropriate.	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.				
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Regular clean equipment, work area and clothing is recommended.			ty practice. Regular cleaning			

Red Appearance Odor Mild

No information available

Odor threshold

<u>Values</u> No information available **Property** pН No information available 200 °C / 392 °F Melting point / freezing point Boiling point / boiling range

Remarks • Method

6ML 131 °C / 268 °F Flash point No information available Evaporation rate Flammability (solid, gas) No information available Flammability Limit in Air No information available Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density 1.11 Relative density Immiscible in water Water solubility Solubility(ies) No information available Partition coefficient No information available Autoignition temperature No information available No information available **Decomposition temperature** No information available Kinematic viscosity Dynamic viscosity 500 mPas @ 20°C (68°F) No information available **Explosive properties** No information available **Oxidizing properties** Other Information No information available Softening point Molecular weight No information available 1,06% (11.8 g/l) **VOC Content (%)** No information available Density **Bulk density** No information available SADT (self-accelerating No information available decomposition temperature) 10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents, Peroxides, Reducing agents

Hazardous Decomposition Products

Carbon oxides

2	11. TOXICOLOGIC	11. TOXICOLOGICAL INFORMATION				
nformation on likely route	s of exposure					
Inhalation	May cause irritation of re	May cause irritation of respiratory tract.				
Eye contact	Contact with eyes may c	Contact with eyes may cause irritation. May cause redness and tearing of the eyes. May cause skin irritation and/or dermatitis.				
Skin contact	May cause skin irritation					
Ingestion	Ingestion may cause irrit	Ingestion may cause irritation to mucous membranes.				
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50			

27100 - HIGH STRENGTH THREADLOCKER RED

6ML

DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	÷ 382	2 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat)4 h
CUMENE 98-82-8	= 140	0 mg/kg (Rat)	= 12300 μL/kg (Rabbit)	> 3577 ppm (Rat) 6 h = 39000 mg/m³ (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

			<u> </u>	
Chemical Name	ACGIH	IARC	NTP_	OSHA
CUMENE	4	Group 2B	Reasonably Anticipated	į X
98-82-8		<u> </u>		

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)

6442 mg/kg

ATEmix (dermal)

18879 mg/kg

ATEmix (inhalation-dust/mist)

12.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

25.63 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Na	me Partition coefficient	
CUMENE 98-82-8		
Other adverse effects No information available		
	13. DISPOSAL CONSIDERATIONS	
Waste treatment methods		
Disposal of wastes	Disposal should be in accordance with applicable regional, national a regulations.	nd local laws and
Contaminated packaging	Do not reuse container.	

6ML

US EPA Waste Number

Not applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
DIMETHYLBENZYL HYDROPEROXIDE	Toxic
80-15-9	Ignitable
CUMENE	Toxic
98-82-8	Ignitable

14. TRANSPORT INFORMATION

DOT

Proper shipping name:

Not regulated

IATA

Proper shipping name:

Not regulated

<u>IMDG</u>

Proper shipping name:

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies Complies **PICCS** Not Listed **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9	1,0		
SACCHARIN - 81-07-2	1.0		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	No		
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

27100 - HIGH STRENGTH THREADLOCKER RED

6ML

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	. 10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
CUMENE 98-82-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
CUMENE - 98-82-8	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	×	x	X
SACCHARIN 81-07-2	Х	X	X
CUMENE 98-82-8	Х	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number | Not applicable

WHMIS Hazard Class

D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA

Health hazards 2

Flammability 1

Instability 0

HMIS

Health hazards 2

Flammability 1

Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

Revision Date

21-Mar-2019

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

Revision Date 11-May-2020 Version 8 1. IDENTIFICATION Product identifier **Product Name** 133K ANTI-SEIZE LUBRICANT 80Z Other means of identification **Product Code** 80078 Recommended use of the chemical and restrictions on use Recommended Use Lubricant No information available Uses advised against Details of the supplier of the safety data sheet Manufacturer Address May Also Be Distributed by: **ITW Permatex** ITW Permatex Canada 6875 Parkland Blvd. 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Solon, Ohio 44139 USA Telephone: (800) 924-6994 Telephone: 1-87-Permatex (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+813-248-0585 Contract Number: MIS0003453 E-mail address: mail@permatex.com 2. HAZARDS IDENTIFICATION Classification_ **OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Category 4 Acute toxicity - Oral Category 1B Carcinogenicity Label elements **Emergency Overview** Signal word Danger Harmful if swallowed May cause cancer



Appearance Silver

Physical state Paste Liquid

Odor Petroleum

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
CALCIUM OXIDE	1305-78-8	10 - 30
GRAPHITE	7782-42-5	10 - 30
ALUMINIUM POWDER	7429-90-5	5 - 10
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED LIGHT	64742-71-8	3-7

4. FIRST AID MEASURES

Description of first aid measures

General advice

If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact

Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a

Methods for cleaning up

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. -[No smoking. Use

personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep

in properly labeled containers.

Incompatible materials

Strong oxidizing agents, Acids, Alkalis, Amines

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Exposure Odiacinics				
Chemical Name	ACGIH TLV	OSHA PEL	<u> </u>	NIOSH IDLH
CALCIUM OXIDE	TWA: 2 mg/m ³	TWA: 5 mg/m ³		IDLH: 25 mg/m ³
1305-78-8	_	(vacated) TWA: 5 mg/m³ not in	,	TWA: 2 mg/m ³
		effect as a result of reconsideration		4.4.
GRAPHITE	TWA: 2 mg/m³ respirable	TWA: 15 mg/m³ total dust		IDLH: 1250 mg/m ³
7782-42-5	particulate matter all forms except	synthetic	TWA: 2,	5 mg/m³ natural respirable
	graphite fibers	TWA; 5 mg/m3 respirable fraction		dust
		synthetic		
		(vacated) TWA: 2.5 mg/m ³		
		respirable dust natural		
		(vacated) TWA: 10 mg/m³ total		
		dust synthetic		
		(vacated) TWA: 5 mg/m³ respirable		
		fraction synthetic	l í	
		TWA: 15 mppcf natural		
ALUMINIUM POWDER	TWA: 1 mg/m³ respirable	TWA: 15 mg/m³ total dust	TWA	A: 10 mg/m ³ total dust
7429-90-5	particulate matter	TWA: 5 mg/m³ respirable fraction	TWA	5 mg/m³ respirable dust
	· ·	(vacated) TWA: 15 mg/m³ total		TWA: 5 mg/m³ Al
		dust	1 1	
		(vacated) TWA: 5 mg/m3 respirable		
		fraction (vacated) TWA: 5 mg/m3 Al	1	
		Aluminum		

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

Respiratory protection

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

appropriate.

General Hygiene Considerations

When using do not eat, drink or smoke, Regular cleaning of equipment, work area and clothing is recommended.

Air = 1

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Paste Liquid
Appearance Silver
Odor Petroleum

Odor threshold No information available

Property Values Remarks • Method

pH No information available
Melting point / freezing point
Boiling point / boiling range No information available

Flammability (solid, gas) No information available

Flammability Limit in Air
Upper flammability limit:
No information available

Lower flammability limit:
No information available
Vapor pressure

Vapor pressure

Vapor density

Relative density

Water solubility

Solubility

Negligible

No information average and information average are average and information average and information average and information average and information average and information average are average and

Solubility(ies)
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available
No information available
No information available
No information available
No information available

Dynamic viscosity

Explosive properties

Oxidizing properties

No information available
No information available
No information available

Other Information
Softening point
Molecular weight
VOC Content (%)
No information available
No information available

Density

Bulk density

No information available
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

decomposition temperature)

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents, Acids, Alkalis, Amines

Page 7/9

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
ALUMINIUM POWDER - 7429-90-5	1.0		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	No	J	
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
CALCIUM OXIDE 1305-78-8	X	X	X
GRAPHITE 7782-42-5	×	X	Х
ALUMINIUM POWDER 7429-90-5	X	X	X
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED LIGHT 64742-71-8	-	X	•
COPPER 7440-50-8	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2A - Very toxic materials

16. OTHER INFORMATION,	INCLUDING DATE OF PREPARATION OF THI	LAST REVISION
	•	

NFPA Health hazards 2 Flammability 1 Instability 0 Physical hazards 0 Personal protection B

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Revision Date 11-May-2020

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End of Safety Data Sheet



SAFETY DATA SHEET

Revision Date 15-May-2020 Version 7 1. IDENTIFICATION Product identifier **Product Name ÜLTRA BLACK GASKET MAKER 3.350Z** Other means of identification **Product Code** 82180 Recommended use of the chemical and restrictions on use Recommended Use Sealant Uses advised against No information available Details of the supplier of the safety data sheet **Manufacturer Address** May Also Be Distributed by: **ITW Permatex** ITW Permatex Canada 6875 Parkland Blvd. 101-2360 Bristol Circle Solon, Ohio 44139 USA Oakville, ON Canada L6H 6M5 Telephone: 1-87-Permatex Telephone: (800) 924-6994 (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+813-248-0585 Contract Number: MIS0003453 E-mail address: mail@permatex.com 2. HAZARDS IDENTIFICATION Classification **OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Carcinogenicity Category 2 Label elements **Emergency Overview** Signal word Warning Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer



Appearance Black

Physical state Paste Liquid

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Harmful to aquatic life with long lasting effects.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
CALCIUM CARBONATE	471-34-1	15 - 40
LIMESTONE	1317-65-3	10 - 30
2-BUTANONE OXIME	96-29-7	1 - 5
CARBON BLACK	1333-86-4	0.1 - 1

4. FIRST AID MEASURES

Description of first aid measures

General advice

If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

IF ON SKIN: Wash with soap and water, if skin irritation or rash occurs: Get medical Skin contact

> advice/attention. Wash contaminated clothing before reuse. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. If skin irritation persists, call a physician.

Immediate medical attention is not required. If symptoms persist, call a physician. Move to Inhalation

fresh air in case of accidental inhalation of vapors or decomposition products.

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth Ingestion

to an unconscious person. Call a physician. Do NOT induce vomiting.

Use personal protective equipment as required. Self-protection of the first aider

Most important symptoms and effects, both acute and delayed

May cause allergic skin reaction. **Symptoms**

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None. None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Personal precautions

Remove all sources of ignition. Pay attention to flashback. Take precautionary measures

against static discharges. Use personal protective equipment as required.

Environmental precautions

See section 12 for additional ecological information. Prevent further leakage or spillage if **Environmental precautions**

safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for containment

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth Methods for cleaning up

or other non-combustible absorbent material. Take up mechanically, placing in appropriate

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Paste Liquid
Appearance Black
Odor Mild

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Melting point / freezing point

Boiling point / boiling range No information available

No information available

Boiling point / boiling range No information available Polymerization
Flash point 95 °C / > 203 °F Tag Closed Cup
Evaporation rate No information available

Flammability (solid, gas)

No information available
Flammability Limit in Air

Upper flammability limit: No information available
Lower flammability limit: No information available
Vapor pressure

No information available

No information available

No information available

No information available

No information available

Vapor density

Air = 1

Relative density 1.44

Water solubility Not applicable Polymerization Solubility(ies) No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available
No information available
No information available
No information available

Kinematic viscosity

Dynamic viscosity

Explosive properties

No information available
No information available
No information available
No information available

Other InformationNo information availableSoftening pointNo information availableMolecular weightNo information available

VOC Content (%) 3%

Density No information available
Bulk density No information available
SADT (self-accelerating No information available

decomposition temperature)

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents, Acids, Water

Hazardous Decomposition Products

Mobility

No information available.

SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard Nο Fire hazard No Sudden release of pressure hazard No Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

The product contains are reliciting the position of strainfeate	
Chemical Name	California Proposition 65
CARBON BLACK 1333-86-4	*Carcinogen (airborne, unbound particles of respirable size)
SILICA, QUARTZ 14808-60-7	*Carcinogen (airborne particles of respirable size only)

 ^{*}The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
LIMESTONE 1317-65-3	X	X	X
ALUMINIUM POWDER 7429-90-5	X	X	X
CARBON BLACK 1333-86-4	Х	X	X
SILICA, QUARTZ 14808-60-7	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 1 Instability 0 Health hazards 2 Flammability 1 Physical hazards 0 Personal protection B HMIS

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

15-May-2020

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82180 - ULTRA BLACK GASKE	1 MAKER 3.3502	Revision Date 15-May-2020
use of this product. Ensure you hasite.	ve the most current version of this data	sheet by contacting us or reviewing our web
	End of Safety Data Sheet	



SAFETY DATA SHEET

Revision Date 25-Feb-2020

Version 6

1. IDENTIFICATION

Product identifier

Product Name

DIELECTRIC TUNE-UP GREASE 3 OZ

Other means of identification

Product Code

22058

Recommended use of the chemical and restrictions on use

Recommended Use

Lubricant

Uses advised against

No information available

Details of the supplier of the safety data sheet

Manufacturer Address

ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex

(866) 732-9502

24-hour emergency phone number

Chem-Tel: 800-255-3924 International Emergency: 00+1+813-248-0585

Contract Number: MIS0003453

E-mail address: mail@permatex.com

May Also Be Distributed by:

ITW Permatex Canada 101-2360 Bristol Circle

Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance White

Physical state Grease

Odor Mild

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Page 1/7

Personal precautions

Avoid contact with eyes and skin. Wash thoroughly after handling.

Environmental precautions

Environmental precautions

See section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate

containers for disposal. Clean contaminated surface thoroughly.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents, Acids, Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Appropriate engineering controls

Engineering Controls

Eyewash stations

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

Respiratory protection

None under normal use conditions.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of

Remarks • Method

equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Appearance Odor

Grease White Mild

Odor threshold

No information available

Property

рΗ Melting point / freezing point Boiling point / boiling range

Values

No information available No information available

No information available

			
The state of the	05 10 1 200 00	- 0 0	
Flash point	> 95 °C / > 203 °F	Tag Closed Cup	
Evaporation rate	< 1	Butyl acetate = 1	
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		ļ
Vapor pressure	No information available	A1. 4	
Vapor density	≯ 1	Air = 1	
Relative density	1.0		
Water solubility	Negligible No information available		
Solubility(ies) Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
exidating proportion	To importation drainable		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	φ		
Density	No information available		
Bulk density	No information available		
SADT (self-accelerating	No information available		
decomposition temperature)			
Γ			
_	10. STABILITY AND	REACTIVITY	
<u>Reactivity</u>			<u> </u>
No information available		·	İ
Chemical stability			
Stable under normal conditions			1
Descibility of Hanandaya Describes			
Possibility of Hazardous Reactions	-		
None under normal processing.			
Conditions to avoid			
Excessive heat.			
Excessive fleat.			
Incompatible materials			
Strong oxidizing agents, Acids, Reduc	ina agents	,	
	g =3=		
Hazardous Decomposition Products	6		
Carbon oxides			
Formaldehyde			
	11. TOXICOLOGICAL	INFORMATION	
Information on likely routes of expo	sure_		
Inhalation	May cause irritation of respirat	ony tract	
maauon	way cause intration of respirat	ory daot.	
Eye contact	Contact with eyes may cause i	irritation, May cause redness and	tearing of the eyes.
-		-	
Skin contact	May cause skin irritation and/o	or dermatitis.	
	1		
Ingestion	Ingestion may cause irritation	to mucous membranes.	
	·		

Page 4/7

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)

91000 mg/kg

ATEmix (dermal)

2143 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.02 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

Not applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

<u>DOT</u>

Proper shipping name:

Not regulated

<u>IATA</u>

Proper shipping name:

Not regulated

IMDG

Proper shipping name:

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Does not comply
ENCS Does not comply

IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard
Chronic Health Hazard
Fire hazard
Sudden release of pressure hazard
No
Reactive Hazard
No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

U.S. State Right-to-Know Regulations

	,			
Chemical Name	New Jersey	Massachusetts		Pennsylvania
BORIC ACID	X	-	÷	-
10043-35-3			<u> </u>	

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA HMIS Health hazards 1
Health hazards 1

Flammability 1 Flammability 1 Instability 0

Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

25-Feb-2020

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End of Safety Data Sheet



SAFETY DATA SHEET

Revision Date 08-Feb-2019

Version 6

· .	1. IDENTIFICATION	
Product identifier	OPPOSITION OF STATE BLUE OF SOME DELA OF	
Product Name	6BR SENSOR SAFE BLUE SILICONE RTV 3 OZ	
Other means of identification		
Product Code	80022	
. 100001 0000		
Recommended use of the chemical	and restrictions on use	
Recommended Use	Şealant	
Uses advised against	No information available	
m ()	 	
<u>Details of the supplier of the safety of th</u>	<u>May Also Be Distr</u>	ibuted by:
<u>Manutacturer Address</u> ITW Permatex	ITW Permatex Can	ada
6875 Parkland Blvd.	101-2360 Bristol C	
Solon, Ohio 44139 USA	Oakville, ON Cana	
Telephone: 1-87-Permatex	Telephone: (800) 9	
(866) 732-9502		
24-hour emergency phone number	·	
Chem-Tel: 800-255-3924		
International Emergency: 00+1+ 813-248-0585		
Contract Number: MIS0003453		
Contract Number: Microsco-25		
E-mail address: mail@permatex.com		
	2. HAZARDS IDENTIFICATION	· · · · · · · · · · · · · · · · · · ·
Classification		
00114 D		
OSHA Regulatory Status This chamical is considered bazardous	by the 2012 OSHA Hazard Communication Standard (29 CFR 19	10 1200\
This cheffical is considered hazardous	by the 2012 Oot A Hazard Communication Standard (25 of 17 19	10.1200)
Serious eye damage/eye irritation	Category 2A	
Skin sensitization	Category 1	
Carcinogenicity	Category 2	
<u>Label elements</u>		
	Emergency Overview	
Signal word		
Warning		
Causes serious eye irritation		
May cause an allergic skin reaction		
Suspected of causing cancer		
'		
		
1	1	



Appearance Blue

Physical state Paste

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Not applicable

Unknown acute toxicity

30.554 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

· ·		
Chemical Name	CAS No	Weight-%
LIMESTONE	1317-65-3	10 - 30
CALCIUM CARBONATE	471-34-1	10 - 30
DISTILLATES (PETROLEUM),	64742-47-8	3 - 7
HYDROTREATED LIGHT		
2-BUTANONE OXIME	96-29-7	1-5

4. FIRST AID MEASURES

Description of first aid measures

General advice

Get medical advice/attention if you feel unwell.

OZ

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN:. Wash with soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

None in particular.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.

Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Ensure adequate ventilation. Flood with water to complete polymerization and scrape off

floor. Sweep up and shovel into suitable containers for disposal. Clean up spill thoroughly

as residue is slippery.

80022 - 6BR SENSOR SAFE BI OZ	LUE SILICONE RTV 3		Revisio	n Date	08-Feb-2019
Prevention of secondary hazards	Clean contaminated object	ts and areas thoroughly observing	g envirot	nmental r	egulations.
	7. HANDLING	AND STORAGE		-	
Precautions for safe handling			ĺ		
Advice on safe handling	vapors or mists. Avoid cor	n good industrial hygiene and safe ntact with skin, eyes or clothing. W ng before reuse. Use personal pro	/ash tho	roughly a	ifter handling.
Conditions for safe storage, includ	ling any incompatibilities				
Storage Conditions	Keep container tightly clos	sed in a dry and well-ventilated pla	ace. Pro	tect from	moisture.
Incompatible materials	Strong oxidizing agents, A	Acids, Water			
8. EX	POSURE CONTROLS	PERSONAL PROTECTIO	N		
Control parameters				_	•
			l		
Exposure Guidelines Chemical Name	ACGIH TLV	OSHA PEL		NIOSH	
LIMESTONE 1317-65-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust			³ total dust respirable dust
		(vacated) TWA: 5 mg/m³ respirable fraction			
CALCIUM CARBONATE 471-34-1	-	-		\; 10 mg/n 5 mg/m³	13 total dust respirable dust
NIOSH IDLH Immediately Dangerou	s to Life or Health				
Other Information	Vacated limits revoked by (11th Cir., 1992).	the Court of Appeals decision in	AFL-C	O v. OSH	A, 965 F.2d 962
Appropriate engineering controls					
Engineering Controls	Showers Eyewash stations Ventilation systems				•
Individual protection measures, su	uch as personal protective	equipment			
Eye/face protection	Tight sealing safety gogg	les.			
Skin and body protection	Wear protective natural re	ubber, nitrile rubber, Neoprene™	or PV¢ (gloves.	
Respiratory protection	Use NIOSH-approved air appropriate.	-purifying respirator with organic v	apor ca	rtridge or	canister, as
General Hygiene Considerations		h good industrial hygiene and saf d clothing is recommended.	ety prac	tice, Reg	ular cleaning of
	9. PHYSICAL AND CH	IEMICAL PROPERTIES			
9.1. Information on basic physical Physical state Appearance Odor Odor threshold	and chemical properties Paste Blue Mild No information available				

Property_	<u>Values</u>	Remarks • Method _	
pH	No information available		
Melting point / freezing point	No information available		}
Boiling point / boiling range	No information available Not	Polymerization	
	Applicable		
Flash point	⅓ 100 °C / > 212 °F	Tag Closed Cup	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		}
Lower flammability limit:	No information available		
Vapor pressure	√5 mm Hg		
Vapor density	≯ 1	Air = 1	
Relative density	1.43		
Water solubility	Not applicable	Polymerization	
Solubility(ies)	No information available	•	
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Ninematic viscosity Dynamic viscosity	No information available		
	No information available		
Explosive properties	No information available		
Oxidizing properties	No intornation available		1
041 b-6			
Other Information	No information available		
Softening point			l l
Molecular weight	No information available		
VOC Content (%)	<3%, <43 g/l		
Density	No information available		
Bulk density	No information available		
SADT (self-accelerating	No information available		
decomposition temperature)			
	10. STABILITY AND R	EACTIVITY	
	10. STABLETT AND IC	LACITATI	
Reactivity			
No information available			
THO IIIIOIII GIGARDIO			
Chemical stability _			
Stable under normal conditions			
Stable dide: Horniat conditions			
Possibility of Hazardous Reaction	nne		
Mana under normal processing	JIIS .		
None under normal processing.			
Conditions to swald			
Conditions to avoid			
Excessive heat.			
Incompatible materials	otor		
Strong oxidizing agents, Acids, Wa	atei		İ
Unnerdana Danamasitian Ba-d	 		
Hazardous Decomposition Prod	uucis 		
Carbon oxides			
Nitrogen oxides (NOx)	1		
Formaldehyde	thul mathyl katavima) at alayatad tama	erature	
may release 2-butanone oxime (et	thyl methyl ketoxime) at elevated temp	cialule	
	11. TOXICOLOGICAL IN	IFORMATION	
Information on likely routes of e	exposure		
			i

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OZ

Inhalation May cause irritation of respiratory tract.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

Ingestion Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE 471-34-1	= 6450 mg/kg (Rat)	-	-
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	> 5000 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
2-BUTANONE OXIME 96-29-7	= 930 mg/kg (Rat)	1000 - 1800 mg/kg (Rabbit)	> 4.83 mg/L (Rat)4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available. No information available.

Carcinogenicity
Target Organ Effects

Eyes, Respiratory system, Skin.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)
ATEmix (dermal)

13876 mg/kg 10606 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

95.074 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
2-BUTANONE OXIME	0,65
96-29-7	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

80022 - 6BR SENSOR SAFE BLU OZ	JE SILICONE RTV 3 Rev	ision Date	08-Feb-2019
Contaminated packaging	Do not reuse container.		
US EPA Waste Number	Not applicable		
	14. TRANSPORT INFORMATION		
DOT Proper shipping name:	Not regulated		
<u>IATA</u> Proper shipping name:	Not regulated		
IMDG Proper shipping name:	Not regulated		
15. REGULATORY INFORMAT	ION .		
International Inventories	2	ĺ	
TSCA DSL/NDSL	Complies Complies		
EINECS/ELINCS	Complies		
ENCS	Not determined		
	Complies		
	Complies Complies		
	Complies		
Legend:			
TSCA - United States Toxic Substances CDSL/NDSL - Canadian Domestic SubstantelNECS/ELINCS - European Inventory of ENCS - Japan Existing and New Chemical IECSC - China Inventory of Existing Chemical FICCS - Philippines Inventory of Chemical AICS - Australian Inventory of Chemical S	ces List/Non-Domestic Substances List Existing Chemical Substances/European List of Notified Chemical Subs I Substances ical Substances temical Substances Is and Chemical Substances	stances	
US Federal Regulations			
	Amendments and Reauthorization Act of 1986 (SARA). This porting requirements of the Act and Title 40 of the Code of Federa		
SARA 311/312 Hazard Categories Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure hazard Reactive Hazard	Yes No No No No No		
CWA (Clean Water Act) This product contains the following sub and 40 CFR 122.42)	stances which are regulated pollutants pursuant to the Clean W	ater Act (40	CFR 122.21
	ntain any substances regulated as hazardous substances unde on and Liability Act (CERCLA) (40 CFR 302) or the Superfund A		
	Page 7/8		

ΟZ

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product is not known to contain any chemicals listed as carcinogens or reproductive toxins.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
LIMESTONE	X	X	X
1317-65-3			
CI PIGMENT BLUE 15, CI #74160	X	-	X
147-14-8			į

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA HMIS Health hazards 2 Health hazards 2 Flammability 1 Flammability 1

Instability 0

Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

Revision Date

08-Feb-2019

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



May cause respiratory irritation

SAFETY DATA SHEET

Revision Date 09-Dec-2020 Version 7 1. IDENTIFICATION Product identifier **Product Name** SUPER GLUE 2 GR Other means of identification **Product Code** 82190 Recommended use of the chemical and restrictions on use Recommended Use This product is a cyanoacrylate-based adhesive Uses advised against No information available Details of the supplier of the safety data sheet Manufacturer Address May Also Be Distributed by: **ITW Permatex ITW Permatex Canada** 6875 Parkland Blvd. 101-2360 Bristol Circle Solon, Ohio 44139 USA Oakville, ON Canada L6H 6M5 Telephone: 1-87-Permatex Telephone: (800) 924-6994 (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+813-248-0585 Contract Number: MIS0003453 E-mail address: mail@permatex.com 2. HAZARDS IDENTIFICATION Classification **OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity (single exposure) Category 3 Label elements **Emergency Overview** Signal word Warning Causes skin irritation Causes serious eye irritation



Appearance Clear

Physical state Liquid

Odor Irritating

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin. Very toxic to aquatic life.

Unknown acute toxicity

14.95 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
ETHYL-2-CYANOACRYLATE	7085-85-0	60 - 100
		·

4. FIRST AID MEASURES

Description of first aid measures

General advice

Get medical advice/attention if you feel unwell. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact

IF ON SKIN:. Wash with soap and water. Allow warm water to penetrate the bond and gently attempt to move bonded areas without pulling the skin away from bonded area. If skin irritation or rash occurs: Get medical advice/attention. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation

F INHALED: Remove victim to fresh air and keep at rest in a position comfortable for preathing. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition broducts.

Ingestion

Not an expected route of exposure. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT

induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms

May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

Combustible material. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None. None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment as required.

Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See section 12 for additional ecological information.

Methods and material for containment and cleaning up

82190 - SUPER GLUE 2 GF	Revision Date 09-Dec-2020		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Flood with water to complete polymerization and scrape off floor. Sweep up and shovel into suitable containers for disposal. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.		
Prevention of secondary hazard	ds Clean contaminated objects and areas thoroughly observing environmental regulations.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).		
Conditions for safe storage, inc	luding any incompatibilities		
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.		
Incompatible materials	Water, Alcohols, Amines, Alkalis		
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
Control parameters			
Exposure Guidelines			
Chemical Name ETHYL-2-CYANOACRYLATE	ACGIH TLV OSHA PEL NIOSH IDLH STEL: 1 ppm		
7085-85-0 NIOSH IDLH Immediately Dange	TWA: 0.2 ppm		
Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).		
Appropriate engineering contro	<u>ls</u>		
Engineering Controls	Showers Eyewash stations Ventilation systems		
Individual protection measures.	such as personal protective equipment		
Eye/face protection	Tight sealing safety goggles.		
Skin and body protection	Do not use PVC, nylon or cotton. Wear protective nitrile rubber gloves.		
Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.		
General Hygiene Consideration:	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.		
	9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1. Information on basic physic Physical state Appearance	cal and chemical properties Liquid Clear		
	Page 4/8		

82190 - SUPER GLUE 2 GR		Revision Dat
Odor Odor threshold	Irritating	
Odor threshold	1 ppm	
<u>Property</u>	<u>Values</u>	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range Flash point	> 150 °C / > 302 °F	
Evaporation rate	80-93.4 °C / 176-200 °F No information available	Tag Closed Cup
Flammability (solid, gas)	No information available	
Flammability Limit in Air	10 mornation available	
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	<0.2 mm Hg	
Vapor density	No information available	
Relative density	1.06	
Water solubility	Insoluble in water	Solidifies
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature Decomposition temperature	485 °C / 905 °F No information available	
Kinematic viscosity	30-70	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
• .		
Other Information		
Softening point	No information available	
Molecular weight	No information available	
VOC content	0.05%	
Density Bulk density	No information available	
SADT (self-accelerating	No information available No information available	
decomposition temperature)	ino information available	
doomposition temperature/		
a.	10. STABILITY AND REA	CTIVITY
Reactivity		
No information available		
Chemical stability		
Stable under normal conditions		
orable and hermal conditions		
Possibility of Hazardous Reactions		
None under normal processing.	-	
Conditions to avoid		
Heat, flames and sparks.		
Incompetible water-tails		
Incompatible materials Water, Alcohols, Amines, Alkalis		
vvater, Alconols, Amilies, Alkalis		
Hazardous Decomposition Products		
Carbon oxides		

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

Carbon oxides

May cause irritation of respiratory tract.

Eye contact

Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact

Will bond to skin. May cause skin irritation and/or dermatitis.

Ingestion

ingestion may cause irritation to mucous membranes.

Chemical Name	0-11050		
	Oral LD50	Dermal LD50	Inhalation LC50
ETHYL-2-CYANOACRYLATE 7085-85-0	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	< 21.1 mg/L (Rat) 1 h
	'		<u> </u>

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

STOT - single exposure

May cause respiratory irritation.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)
ATEmix (dermal)

5008 mg/kg

2003 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.95 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

Not applicable

14. TRANSPORT INFORMATION

DOT

Proper shipping name

Not regulated

IATA

Proper shipping name

Not regulated

IMDG

Proper shipping name

Not regulated

15. REGULATORY INFORMATION

<u>International Inventories</u>	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

U.S. State Right-to-Know Regulation's

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ETHYL-2-CYANOACRYLATE 7085-85-0	X	-	
HYDROQUINONE	X	x -	X
123-31-9			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA

Health hazards 2

Flammability 2

Instability 1

<u>HMIS</u> Health hazards 12

Flammability 2

Physical hazards 1

Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

09-Dec-2020

Disclaimer

Illinois Tool Works Inc. believes the information contained in this data sheet is accurate as of the date compiled. However, Illinois Tool Works Inc. makes no warranty, express or implied, as to the accuracy, reliability or completeness of the information. User is responsible for evaluating whether such information or this product is fit for a particular purpose and suitable for a particular use or application. The information in this data sheet may not be valid if this product is used in combination with other products or in processes for which it was not designed. Illinois Tool Works Inc. disclaims any liability for consequential or incidental damages of any kind, including lost profits, arising from the sale or use of this product. Ensure you have the most current version of this data sheet by contacting us or reviewing our web

End of Safety Data Sheet



SAFETY DATA SHEET

Revision Date 24-Feb-2020

Version 5

	1. IDENTIFICATION		
	1. IDENTIFICATION		
<u>Product identifier</u> Product Name	PX 116DA SILICONE LUBE 10.25 OZ		
Other means of identification Product Code	80070		
Recommended use of the chemical a	ind restrictions on use		
	Lubricant		
Uses advised against	No information available		
Details of the supplier of the safety d	ata sheet		
Manufacturer Address		so Be Distributed	bv:
ITW Permatex	ITW Pe	rmatex Canada	-1
6875 Parkland Blvd.		60 Bristol Circle	
Solon, Ohio 44139 USA		e, ON Canada L6H	
Telephone: 1-87-Permatex (866) 732-9502	Teleph	one: (800) 924-699	4
24-hour emergency phone number Chem-Tel: 800-255-3924			
International Emergency:			
00+1+ 813-248-0585			
Contract Number: MIS0003453			
E-mail address: mail@permatex.com			
	2. HAZARDS IDENTIFICATION		
Classification			
OSHA Regulatory Status	1. 11. 0040 001111		
This chemical is considered hazardous	by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Germ cell mutagenicity		ategory 1B	
Carcinogenicity		ategory 1A	
Aspiration toxicity		ategory 1	
Flammable liquids		ategory 2	
Label elements			
	Emergency Overview		
Signal word			
Danger			
May cause genetic defects			
May cause genetic defects May cause cancer		ĺ	
May be fatal if swallowed and enters air	Mave		
Highly flammable liquid and vapor	,.]	
			ı

Page 1/8



Appearance White

Physical state Liquid Flammable Aerosol

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	15 - 40
BUTANE	106-97-8	10 - 30
PROPANE PROPANE	74-98-6	3 - 7

4. FIRST AID MEASURES

Description of first aid measures

General advice

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye contact

F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

Inhalation

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Administer oxygen if breathing is difficult.

Ingestion

F SWALLOWED:. Call a physician or poison control center immediately. Do NOT induce

vomiting.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms

See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Keep victim warm and quiet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Dry chemical or CO2, Water spray, fog or regular foam, Move containers from fire area if you can do it without risk, Damaged cylinders should be handled only by specialists

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

Some may burn but none ignite readily. Ruptured cylinders may rocket.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information

Ventilate the area.

Environmental precautions

Environmental precautions

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined

areas.

Methods and material for containment and cleaning up

Methods for containment

If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance

to evaporate.

Odor	Mild	
Odor threshold	No information available	
	No information available	
Property	Values	Demondra - Martin I
pH	No information available	Remarks • Method
Melting point / freezing point	No information available	
Boiling point / boiling range	> 38 °C / > 100 °F	
Flash point	-104 °C / -155 °F	Civos a flome projection of full cut as
F	104 6 7 -155 1	Gives a flame projection at full valve opening or
Evaporation rate	No information available	flashback at any degree of valve opening
Flammability (solid, gas)	No information available	
Flammability Limit in Air	To mornadon available	
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	40 psig @ 20°C (68°F)	
Vapor density	No information available	
Relative density	0.94	
Water solubility	No information available	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
	140 IIIIOIIIIalioii avallable	
Other Information	1	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	20.5	
Density	No information available	
Bulk density	No information available	
SADT (self-accelerating	No information available	
decomposition temperature)		
	10. STABILITY AND I	REACTIVITY
	10.017.017.77.00	TENOTIVII I
Reactivity No information available		
TO INIOMICATOR CYCINDDIC		
Chemical stability		
Stable under normal conditions		
,		
Possibility of Hazardous Reaction	s	
None under normal processing.		
, ,		
Conditions to avoid		
Heat, flames and sparks.		
·		
Incompatible materials		
Strong oxidizing agents		
Hazardous Decomposition Production Carbon oxides	<u>:ts</u>	
	11. TOXICOLOGICAL II	FORMATION
Information on likely routes of exp	osure	
-		
Inhalation	May cause irritation of respirator	y tract,
	Page 5/8	
	1	

Eye contact

Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact

May cause skin irritation and/or dermatitis.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and

pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	> 5000 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
BUTANE 106-97-8	-	-	= 658 g/m³ (Rat)4 h
PROPANE 74-98-6	-	•	> 800000 ppm (Rat) 15 min

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity

Carcinogenicity
Target Organ Effects

No information available. No information available. No information available.

Central nervous system.

The following values are calculated based on chapter 3.1 of the GHS document ...

ATEmix (oral)

16683 mg/kg 6673 mg/kg

ATEmix (dermal)
ATEmix (inhalation-gas)

1263198 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
BUTANE 106-97-8	2.89
PROPANE 74-98-6	2.3

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

Fire hazard

Sudden release of pressure hazard

Reactive Hazard

Yes

No No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122,42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvanja		
BUTANE 106-97-8	Х	X	X		
PROPANE 74-98-6	X	х	Х		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

B2 - Flammable liquid

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA

Health hazards 2

Flammability 3

Instability 0

HMIS

Health hazards 2

Flammability 3

Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

24-Feb-2020

Disclaimer

Illinois Tool Works Inc. believes the information contained in this data sheet is accurate as of the date compiled. However, Illinois Tool Works Inc. makes no warranty, express or implied, as to the accuracy, reliability or completeness of the information. User is responsible for evaluating whether such information or this product is fit for a particular purpose and suitable for a particular use or application. The information in this data sheet may not be valid if this product is used in combination with other products or in processes for which it was not designed. Illinois Tool Works Inc. disclaims any liability for consequential or incidental damages of any kind, including lost profits, arising from the sale or use of this product. Ensure you have the most current version of this data sheet by contacting us or reviewing our web site.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: (9991-L) LIQUID ROOF

PRODUCT CODE: F9991

HMIS CODES H F R P

220G

SECTION - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pro Guard Coatings	
ADDRESS: One Industrial Way, PA 19608	
EMERGENCY PHONE: 1-800-424-9300	INFORMATION PHONE: 717-336-7900
DATE REVISED : 02-12-04	NAME OF PREPARER: Sue Nielsen

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

		NAL EXPOSUR	RE LIMITS	VAPOR PRESSURE	WEIGHT	
HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIR TLV	OTHER	mm Hg @ TEMP	PERCENT
* HIGH FLASH NAPHTHA 100/VOLATILE SOLVENT	64742-95-6	 	100 ppm		10.0 77F	10
STYRENE-ETHYLENE/BUTYLENE-STYRENE BLOCK COPOLYMER	MIXTURE				N/A	· · · · · · · · · · · · · · · · · · ·
TITANIUM DIOXIDE	13463-67-7	1			N/A	<u>-</u>
TALC	14807-96-6				N/A	
BARIUM SULFATE	7727-43-7		-		N/A	
NON-FERROUS METAL OXIDE	1314-13-2				N/A	
ALIPHATIC HYDROCARBON	64742-47-8	100 ppm	100 ppm		N/A	
Technical white mineral oil	8042-47-5	5mg/m3	5mg/m3	10mg/m3	0.1 70F	
HYDROCARBON POLYMER	N/A	1		T .	N/A	
DIOCTYL SEBACATE	122-62-3	1			5.0 256F	
t-butyl peroxybenzoate	614-45-9				7.6 7,5F	-
METALLIC SOAPS			1		2.5 100F	

^{*} Indicates toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

LUILING RANGE:	300 to 450 deg F	SPECIFIC GRAVITY (H20=1): 1.0
VAPOR DENSITY:	HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN
COATING V.O.C. :	2.47 LB/GL (296 G/L)	
MATERIAL V.O.C.:	2.46,LB/GL (295 G/L)	
SOLUBILITY IN WATER:	Insoluble	
APPEARANCE AND ODOR:	White viscous liquid with petroleum odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

ELACU DOINT: 445 E		METHOD HEED.	2-4-51			
FLASH POINT: 115 F	METHOD USED: Setaflash					
FLAMMABLE LIMITS IN AIR BY VOLU	JME-	LOWER:	0.9%	UPPE	R:	7.0%
EXTINGUISHING MEDIA: FOAM, C02,	DRY CHEMICAL	<u> </u>				
		_				
SPECIAL FIREFIGHTING PROCEDURI	ES			1		
Full protective equipment. Water spra	ay may be ineffecti	ve, but may be used	to cool clos	ed cont	ainers.	
		·				
UNUSUAL FIRE AND EXPLOSION HA						
(eep containers tightly closed. Isolate	e from heat, electri eat. Decompositio	cal equipment, spart n products may caus	ks and open se health ha	flame. zard.	Closed	containers

STABILITY: STABLE CONDITIONS TO AVOID

Strong oxidizers

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide and asphyxiants

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

N/A

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes. See SKIN ABSORPTION SIGNS AND SYMPTOMS OF EXPOSURE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in dermatitis. Eyes: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged contact may be more irritating.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Contains organic solvent. Chronic exposure may cause damage to the central nervous system, respiratory system, lung. eye, skin, liver, gastrointestinal tract, spleen, kidneys and blood. Vapor harmful and irritating. Avoid breathing fumes,

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Liquid ingestion may result in vomiting. Aspiration 'breathing' of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness nausea, and loss of consciousness.

CARCINOGENICITY: NTP? NO

N/A,

IARC MONOGRAPHS? NO

OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

N/A

EMERGENCY AND FIRST AID PROCEDURES

Eye: Flush with water for 15 minutes while holding eye-lids open. Get medical attention immediately, Skin: Wash with soap and water. Remove contaminated clothing and shoes. Do not reuse until cleaned. Get medical attn. Inhalation: Remove victim to fresh air, provide oxygen if breathing is difficult. Give art, resp. if not breathing. Ingestion: Do not induce vomiting! If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention immediately.

	9991 MATERIAI	SAFETY DATA SHEET	PAGE 3 OF	3
=	======================================	II - PRECAUTIONS FOR SAFE HANDLIN	NG AND USE====	
	STEPS TO BE TAKEN IN CASE MAT Prevent ignition; stop leak; ventilate are	ERIAL IS RELEASED OR SPILLED ea; contain spill; absorb on inert material.		
	WASTE DISPOSAL METHOD Follow Federal, State, and Local regula	ations, RCRA Hazardous waste. Incinerat	e. Contract to aut	horized disposal service.
	PRECAUTIONS TO BE TAKEN IN HA	NDLING AND STORING Keep containers tightly closed. Keep in	well ventilated spa	ace.
	OTHER PRECAUTIONS This product is designated as a hazard entering or leading to surface waters.	ous substance under the Clean Water Act	Keep out of surf	ace waters or severs
		SECTION VIII - CONTROL MEASURES:		
	ESPIRATORY PROTECTION	rexposure. Use either an Atmosphere-sup		
	VENTILATION Use explosion-proof ventilation as requ	ired to control vapor concentrations.		
	PROTECTIVE GLOVES Impervious gloves			
	EYE PROTECTION			

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Protective clothing as required to prevent skin contact.

WORK/HYGIENIC PRACTICES

Do not weld, heat or drill near containers. Even empty containers may contain explosive vapors.

DISCLAIMER

Chemical goggles.

The facts stated are based upon information believed to be accurate. No guarantee is made of data accuracy. We do not assume responsibility or liability for use of this product, since we have no control over the methods or conditions of use. Compliance with all applicable federal, state and local regulations is the responsibility of the user.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: (9991-L) LIQUID ROOF

PRODUCT CODE: F9991

HMIS CODES: H F R P

2 2 0 G

SECTION | - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pro Guard Coatings	
ADDRESS: One Industrial Way, PA 19608	
EMERGENCY PHONE: 1-800-424-9300	INFORMATION PHONE: 717-336-7900
DATE REVISED : 02-12-04	NAME OF PREPARER : Sue Nielsen

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZADBOUG GOLDONENTA		OCCUPATIO	NAL EXPOSUR	RE LIMITS	VAPOR	PRESSURE	WEIGHT
HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIR TLV	OTHER	mm Hg	@ TEMP	PERCENT
* HIGH FLASH NAPHTHA 100/VOLATILE SOLVENT	64742-95-6	<u> </u>	100 ppm		10.0	77 F	10
STYRENE-ETHYLENE/BUTYLENE-STYRENE BLOCK COPOLYMER	MIXTURE		Тоо рриг		10.0	N/A	
TITANIUM DIOXIDE	13463-67-7	 -	 		 	N/A	<u>_</u>
TALC	14807-96-6	 		-	 	N/A	
BARIUM SULFATE	7727-43-7		 		 	N/A	
NON-FERROUS METAL OXIDE	1314-13-2	 -	 		 	N/A	
ALIPHATIC HYDROCARBON	64742-47-8	100 ppm	100 ppm	 		N/A	
Technical white mineral oil	8042-47-5	5mg/m3	5mg/m3	10mg/m3	0.1	70F	
HYDROCARBON POLYMER	N/A	3,11,0	-	Tomgrino	- '''	N/A	
DIOCTYL SEBACATE	122-62-3		 		5.0	256F	
t-butyl peroxybenzoate	614-45-9	<u> </u>	 	 	7.6	75F	
METALLIC SOAPS			 		2.5	100F	

^{*} Indicates toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

ILING RANGE:	300 to 450 d	deg F	SPECIFIC GRAVITY (H20=1): 1.0
VAPOR DENSITY:	HEAVIER TI	HAN AIR	EVAPORATION RATE: SLOWER THAN
	ETHER		ı
COATING V.O.C. :	2.47 LB/GL (296 G/L)	
MATERIAL V.O.C.:	2.46,LB/GL (295 G/L)	
SOLUBILITY IN WATER:	Insoluble		
APPEARANCE AND	White viscou	s liquid with petroleum	
ODOR:	odor	· ·	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 115 F		METHOD US	ED: Setaflash		<u> </u>
FLAMMABLE LIMITS IN AIR BY VOLUM	ЛЕ	LOWER:	0.9%	UPPER:	7.0%
EXTINGUISHING MEDIA: FOAM, C02, D	RY CHEMICAL				
SPECIAL FIREFIGHTING PROCEDURE		<u> </u>			
Full protective equipment. Water spray	may be ineffect	ve, but may be	used to cool clos	ed containe	ers.
INUSUAL FIRE AND EXPLOSION HAZ	ARDS				
eep containers tightly closed. Isolate	from heat, electr it. Decomposition	ical equipment, on products may	sparks and open cause health ha	flame. Clo	sed container

SECTION V - REACTIVITY DATA =====

STABILITY: STABLE CONDITIONS TO AVOID

Strong oxidizers

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide and asphyxiants

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

N/A

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes, See SKIN ABSORPTION SIGNS AND SYMPTOMS OF EXPOSURE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in dermatitis. Eyes: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged contact may be more irritating.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Contains organic solvent. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys and blood. Vapor harmful and irritating. Avoid breathing fumes.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Liquid ingestion may result in vomiting. Aspiration 'breathing' of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness nausea, and loss of consciousness.

CARCINOGENICITY: NTP? NO N/A,

IARC MONOGRAPHS? NO

OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

N/A

EMERGENCY AND FIRST AID PROCEDURES

Eye: Flush with water for 15 minutes while holding eye-lids open. Get medical attention immediately. Skin: Wash with soap and water. Remove contaminated clothing and shoes. Do not reuse until cleaned. Get medical attn. Inhalation: Remove victim to fresh air, provide oxygen if breathing is difficult. Give art, resp. if not breathing. Ingestion: Do not induce vomiting! If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention immediately.

	^	^	•	4
•	u	ш	ч	7

MATERIAL SAFETY DATA SHEET

PAGE 3 OF 3

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Prevent ignition; stop leak; ventilate area; contain spill; absorb on inert material.

WASTE DISPOSAL METHOD

Follow Federal, State, and Local regulations, RCRA Hazardous waste. Incinerate. Contract to authorized disposal service.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, or flame. Keep containers tightly closed. Keep in well ventilated space.

OTHER PRECAUTIONS

This product is designated as a hazardous substance under the Clean Water Act. Keep out of surface waters or severs entering or leading to surface waters.

ESPIRATORY PROTECTION

Use a NIOSH respirator to prevent overexposure. Use either an Atmosphere-supplying Respirator or an Air-purifying respirator for organic vapors.

VENTILATION

Use explosion-proof ventilation as required to control vapor concentrations.

PROTECTIVE GLOVES

Impervious gloves

EYE PROTECTION

Chemical goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Protective clothing as required to prevent skin contact.

WORK/HYGIENIC PRACTICES

Do not weld, heat or drill near containers. Even empty containers may contain explosive vapors.

DISCLAIMER

The facts stated are based upon information believed to be accurate. No guarantee is made of data accuracy. We do not ssume responsibility or liability for use of this product, since we have no control over the methods or conditions of use. Compliance with all applicable federal, state and local regulations is the responsibility of the user.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: (9991-L) LIQUID ROOF

PRODUCT CODE: F9991

HMIS CODES: H F R P

220G

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pro Guard Coatings	
ADDRESS: One Industrial Way, PA 19608	
EMERGENCY PHONE: 1-800-424-9300	INFORMATION PHONE: 717-336-7900
DATE REVISED : 02-12-04	NAME OF PREPARER : Sue Nielsen

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

		OCCUPATIO	NAL EXPOSUR	RE LIMITS	VAPOR	PRESSURE	WEIGHT
HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIR TLV	OTHER	mm Hg	@ TEMP	PERCENT
* HIGH FLASH NAPHTHA 100/VOLATILE SOLVENT	64742-95-6	 _	100 ppm		10.0	77F	10
STYRENE-ETHYLENE/BUTYLENE-STYRENE BLOCK COPOLYMER	MIXTURE		100 pp		10.0	N/A	10
TITANIUM DIOXIDE	13463-67-7		· -		 	N/A	
TALC	14807-96-6	1	_			N/A	
BARIUM SULFATE	7727-43-7			-	 	N/A	
NON-FERROUS METAL OXIDE	1314-13-2	1	 	<u> </u>		N/A	
ALIPHATIC HYDROCARBON	64742-47-8	100 ppm	100 ppm		 	N/A	
Technical white mineral oil	8042-47-5	5mg/m3	5mg/m3	10mg/m3	0.1	70F	
HYDROCARBON POLYMER	N/A	1 3	- Cingilio	- Joing/illo	<u> </u>	N/A	
DIOCTYL SEBACATE	122-62-3	<u> </u>		 	5.0	256F	
t-butyl peroxybenzoate	614-45-9	 	† —	+	7.6	75F	
METALLIC SOAPS			 	1	2.5	100F	·

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

الله ILING RANGE:	300 to 450 deg F	SPECIFIC GRAVITY (H20=1): 1.0
VAPOR DENSITY:	HEAVIER THAN AIR ETHER	EVAPORATION RATE: SLOWER THAN
COATING V.O.C. :	2.47 LB/GL (296 G/L)	
MATERIAL V.O.C.:	2.46,LB/GL (295 G/L)	
SOLUBILITY IN WATER:	Insoluble	
APPEARANCE AND	White viscous liquid with petroleum	
ODOR:	odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 115 F	METHOD USE	D: Setaflash		
FLAMMABLE LIMITS IN AIR BY VOLUME-	LOWER:	0.9%	UPPER:	7.0%
EXTINGUISHING MEDIA: FOAM, C02, DRY CHEMI	CAL			
SPECIAL FIREFIGHTING PROCEDURES	<u> </u>			
Full protective equipment. Water spray may be inc	effective, but may be u	sed to cool clo	sed containers	
	- <u>-</u>	<u> </u>		
UNUSUAL FIRE AND EXPLOSION HAZARDS				
(eep containers tightly closed. Isolate from heat,	electrical equipment, si	parks and one	n flame Close	d contai

Geep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers are explode when exposed to extreme beat. Decomposition products may cause health hazard.

STABILITY: STABLE **CONDITIONS TO AVOID**

Strong oxidizers

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide and asphyxiants

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

N/A

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

High concentrations or prolonged exposure to lower concentrations may be slightly irritating to muchus membranes. See SKIN ABSORPTION SIGNS AND SYMPTOMS OF EXPOSURE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in dermatitis. Eyes: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged contact may be more irritating.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Contains organic solvent. Chronic exposure may cause damage to the central nervous system, respiratory system, lung. ye, skin, liver, gastrointestinal tract, spleen, kidneys and blood. Vapor harmful and irritating. Avoid breathing fumes.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Liquid ingestion may result in vomiting. Aspiration 'breathing' of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness nausea, and loss of consciousness.

CARCINOGENICITY: NTP? NO

IARC MONOGRAPHS? NO

OSHA REGULATED? NO

N/A,

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE N/A

EMERGENCY AND FIRST AID PROCEDURES

Eye: Flush with water for 15 minutes while holding eye-lids open. Get medical attention immediately. Skin: Wash with soap and water. Remove contaminated clothing and shoes. Do not reuse until cleaned. Get medical attn. Inhalation: Remove victim to fresh air, provide oxygen if breathing is difficult. Give art, resp. if not breathing. Ingestion: Do not induce vomiting! If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention immediately.

9991	MATERIAL SAFETY DATA	SHEET	PAGE 3 OF	 3
======== \$	ECTION VII - PRECAUTION	NS FOR SAFE HANDLING	AND USE====	
STEPS TO BE TAKEN IN C Prevent ignition; stop leak; v				
WASTE DISPOSAL METHO Follow Federal, State, and Lo		ardous waste. Incinerate.	Contract to auti	norized disposal service.
PRECAUTIONS TO BE TAK Keep away from heat, sparks			ell ventilated spa	ce.
OTHER PRECAUTIONS This product is designated as entering or leading to surface	s a hazardous substance un e waters.	nder the Clean Water Act.	Keep out of surfa	ace waters or severs
=======================================	====== SECTION VIII - (CONTROL MEASURES==		=======================================
ESPIRATORY PROTECTION Use a NIOSH respirator to purespirator for organic vapors.	revent overexposure. Use e	either an Atmosphere-supp	lying Respirator	or an Air-purifying
VENTILATION Use explosion-proof ventilation	on as required to control var	oor concentrations.		
PROTECTIVE GLOVES Impervious gloves				
EYE PROTECTION Chemical goggles.				
OTHER PROTECTIVE CLO Protective clothing as require				
WORK/HYGIENIC PRACTION Do not weld, heat or drill nea		-	·	
	SECTION IX	DISCLAIMER=====		

DISCLAIMER

The facts stated are based upon information believed to be accurate. No guarantee is made of data accuracy. We do not ssume responsibility or liability for use of this product, since we have no control over the methods or conditions of use. Compliance with all applicable federal, state and local regulations is the responsibility of the user.

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard,

29 CFR 1910.1200. Standard must be ===sulted for specific requirements.

OMB No. 1218-0072

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved



NTITY (As Used on Label and List) PC Metal		Note: Blank spaces information is	are not permitted, available, the space	if any item e must be	s not ap	oplicable, or no to indicate that.
Section I			 		 	
Manulacturer's Name	-	Emergency Telepho	ne Number		+	
Protective Coating Co.		610-432-				
Address (Number, Street, City, State, and ZIP Code		Telephone Number		•	 	
221 S. Third St.		610-432-	-3543			
Allentown, PA 18102		Date Prepared 9-26-95				
		Signature of Prepare	er (optional)			
				<u> </u>	<u> </u>	
Section II — Hazardous Ingredients/Ide	entity Information	·				
Hazardous Components (Specific Chemical Identity	Common Name(s))	OSHA PEL	ACGIH TLV		Limits mended	% (optional)
Glycidyl ethers of bisph	enol A resi	ns N.E.	N.E.	N.	E.	
CAS# 25068-38-6					Ţ 	
Tri (Dimethylamino Methy	1) Pnenol	N.E.	N.E.	N.	E.	
CAS# 90-72-2			. 		-	
	G:1:			.	<u> </u>	
Sodium Calcium Magnesium CAS# 65997-17-3	Silicate	N.E.	N.E.	N.	E	<u> </u>
Magnesium Silicate Hydra	te CAS# 148	07-96-6	N.E.	N.	F	•
Polyether Polymercaptan	CAS# Trade	Secret N.E.	····		1	
:			N.E.	N.	E	
rystalline Silica		N.E.	N.E.	N,	Ε.	
CAS# 14808-60-7						
Iron		N.E.	N.E.	N.	Ε.	
CAS# 7439-89-6						
Section III — Physical/Chemical Charac	cteristics N	E. = Not Es	tablished			——— ———
Boiling Point		Specific Gravity (H ₂ 0				T
N/A		18.15	-			
Vapor Pressure (mm Hg.) N/A		Melting Point N/A				<u> </u>
Vapor Density (AIR = 1)		Evaporation Rate				
N/A	- {	(Butyl Acetate 4 1)	N/A	ļ		1
Solubility in Water						
Insoluble			<u>.</u>			
Appearance and Odor Putty						
Section IV — Fire and Explosion Hazar	d Data			<u>;</u>		
Tash Point (Method Used)		Flammable Limits		LEL	 T	VEL
None	_	Not establi	.shed	None		None
Extinguishing Media Foam, CO2, Dry Chemicals						
Special Fire Fighting Procedures Use Self-contained breat	hing appara	tus.	,			<u></u>
ual Fire and Explosion Hazards None Known						
Reproduce Incally)					OSHA	174, Sept. 1985

Section V — Reactivity Data						
Stability	Unstable		Condi	ilons to Avold	· · ·	
	Stable	x	Ev	cessive heat over long periods of t	<u> </u>	
Incompatibility	(Materials to Avoid)	1_^		cessive heat over long periods of t	ine.	
itrong	oxidizers, mposition or Byprodu	aci	ids,	and bases.		
Carbon	Monoxide,	Älde	ehyd	es, Acids, Oxides of Sulfur and Nit	rogen.	
Hazardous Polymerization	May Occur		Condi	lions to Avoid		
<u></u>	Will Not Occur	Х	St	rong acids of bases.		
	- Health Hazard	Data				
Route(s) of Entry	: Inhal	alion?		Skin? Ingestion	7	
Health Hazards (Acute and Chronic) ie skin irr	itat	ion	or sensitization possible. Possib	le redness of skin	
rash, i	tching, al	lerc	ly,	eczema skin conditions.		
			<u></u>			
Carcinogenicity:	NTP (None	<u>} </u>		IARC Monographs? OSHA R (None) (Not	egulated? Regulated)	
Signs and Sympt POSSIDI	loms of Exposure e irritati	on,	ras	h, or asthmatic type response in se	nsitized persons	
				ged contact with skin.		
Medical Condition Generally Aggray	ns ated by Exposure	Skir	ı an	d eye conditions.		
		•				
Emergency and I	First Ald Procedures	- d wa	ter	, remove contaminated clothing and	launder before	
				water for 15 minutes - call physic:		
	- Precautions fo				i,air.	
Steps to Be Take	on in Case Material is with glove	Releas	sed or	Spilled		
<u></u>						
<u> </u>						
Waste, Disposal N	Method		7.7 7	th local, state, and federal regular	Hiona	
Dispose	in accord	ance	- W.J.	ch local, State, and rederal regular	410118.	
Precautions to Be	Taken in Handling (and Sto	ring			
Avoid c	ontact with	h sk	in .	and eyes. Store in cool area.		
Other Precautions						
None.	·			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
···						
	 Control Measu 					
				proved NIOSH dust mask when sanding sent when sanding or sawing material		
Ventilation	Local Exhaust Goo	og_g gg_g	ene	cal ventilation Special	<u> </u>	
}	Mechanical (General)	ent	101	Other	<u> </u>	
Protective Gloves		ieed	eal	N/A Eye Protection	<u> </u>	
Rubber	aloves			Wear protective glasse	s.	
Other Protective Cone ne	lothing or Equipment eded.	ł				
Hygienic Pra	etices	loth	ing	and skin clean and free of uncured	epoxy.	
				given in good faith, but no warrant		
	ve informati ied is made		ıs	given in good faith, but no warrant	λ exhrespeα	

*Estimate N/A-Not Applicable N/R-Not Restricted N/E-Not Established

MATERIAL SAFETY DATA SHEET

NOTE: BLANK SPACES AF	<u>RE NOT PE</u>	RMITTED	. IF ANY ITE	EM IS I	NOT APP	LICABLE, TF	IE SPA	CE MUST	BE MARKY	D TO IN	NDICATE THAT.
INFULLIA								PART N	Ю.	Ť	<u></u>
(As shown on Label or packa	ge) VLP e	xcludes 1 oz	DZ. (F-631) IF APPLICABLE				ICABLE				
SECTION I											
MANUFACTURER'S			I					EMERG	ENCY		
NAME Plasti D	Dip Internatio	onal Inc.						PHONE	No. 1-800-424-	9300	
ADDRESS (NUMBER, STRE 3920 Pheasant Ridge Drive	ET, CITY,	STATE AN	ID ZIP CODE	,)		REVISION #	# 0002	2			
			· · · · · · · · · · · · · · · · · · ·			MANUFACT	TUREF	'S PHON	E		
Blaine, MN 55449						No. FOR IN	FORM/		-763-785-21 ₅₆	l	
						DATE MSDS					
CROSSON II II ZARROJIC						WAS PREPA	ARED	October 7,	2003		
SECTION II - HAZARDOUS carcinogens if 0.1% of the con	mposition or	r greater.	ORMATION.	All He	alth Hazar	rds which com	prise 19	% or great	ter of the comp	osition a	nd all
HAZARDOUS COMPONEN			% Wt.		C	AS NO.	T (OSHA	ACGIH	07	THER LIMITS
IDENTITY AND COM		(E (S)	(OPTION	AL)			1	PEL	TLV		ECOMMEND
<u>Tetrahydrofi</u>			60.3		1	09-99-9	20	00 ppm	200 ppm	1	None
Methyl Ethyl K			18.9		7	78-93-3		00 ppm	200 ppm	1	None
Acetic Acid Ethenyl Ester, Poly			8.5		90	003-22-9		N/E	N/E		None
Ethene, chloro-, hor			5.5	/		002-86-2		N/E	N/E	1	None
Cyclohexan	one		2.4			08-94-1	51	0 ppm	25 ppm		None
On Cart Chiese Printers and A							<u> </u>				
SECTION III - PHYSICAL /											
BOILING POINT 151 – 175°F	Specific G	Gravity (H20	0 =1) 0.90 - (0.92		_	AP	PROXIM	IATE WEIGH 7.65	r per G	ALLON (LBS)
VAPOR PRESSURE		VAPOR	DENSITY			EVAPORA'	TION	RATE			
143 mmHg @ 20°C				Heavier than air (BUTYL ACETATE =1) >1.0					.0		
SOLUBILITY IN WATER	1		ATILE 81.6 OTHER								
oluble		VOC LBS	S./GAL 6.2 (IF ANY)								
PEARANCE AND ODOR Clear liquid, st	trong solven	et odor									
SECTION IV-FIRE AND EXI	PLOSION I	HAZARD	ATA						\longrightarrow		
FLASH POINT 6.0°F	HODIOIT	MACHINE D.	 						T		
(METHOD USED) TCC		Į.	FLAMMABLE LIMITS 1.3 – 11.8			'	LEL	1.3	UEL	*** 0	
EXTINGUISHING			1.3 – 11.8					1.3	<u></u>	11.8	
MEDIA Carbon Diox	xide, Dry Ch	hemical, or Fo	oam								
SPECIAL FIRE FIGHTING	-										
PROCEDURES S	Self containe	d breathing	apparatus with	a full f	ace piece,	operated in pre	ssure de	mand or of	ther positive pre	ssure mo	de.
UNUSUAL FIRE AND EXPLOSION HAZARDS T	his material	is flammable	e and may be ig	onited h	u heat on:	arks flame or st	tatio ele	-teloity			
HAZARDOUS PRODUCTS F	ORMED B	Y	, min 1112, 00 -0	Jinica 5	y near, spa	IKS, Haine Or at	and elec	meny.			
FIRE OR THERMAL DECOM			ı dioxide and/or	r carbor	n monoxid	c. Hydrogen cl	nloride a	and organic	hydrocarbons		
EXPLOSIVE LIMITS						··,	1101,1	III OI D	- Hydrodaloons.		
(% BY VOLUME IN AIR) 1.3 – 11.8											
SECTION V - OPTIONAL HA	AZARD RA	TINGS IDF	ENTIFICATIO	ON							
HAZARD RATING					National	Fire Protection	n Assoc	iation (NF	(PA)		
4-EXTREME								•			
3-HIGH 2-MODERATE] '	FIRE3	REACTIV	ITY _	<u>0</u> .			
1-SLIGHT											
0-INSIGNIFICANT					HEAT TH		OTAT T	TIZIDDE			
**SEE SECTION IV				['	REALII	1 SPE	CIAL D	IAZAKDS	None .		ļ
									ĺ		

This is the "front" when printed in duplex. Page 1 of 2 pages if not duplex.

			ļ			
SECTION VI - REACTIVIT						
STABILITY UNSTAI						
NCOMPATIBILITY (Mater	ials to Avoid) Strong acids, bases, oxidizing	g agents, selected amines with alkali metals and halogens.				
AZARDOUS DECOMPOSI	TION OR BY PRODUCTS					
HAZARDOUS	MAY OCCUR	CONDITIONS TO AVOID				
POLYMERIZATION	WILL NOT OCCUR X	May be ignited by heat, sparks, flame or static electricity				
SECTION VII - HEALTH HA	ZARD DATA					
ROUTES OF ENTRY	INHALATION? YES SKIN? Y	ES INGESTION? YES EYES? YES				
HEALTH ACUTE	х					
HAZARDS CHRONIC	X					
CARCINOGENICITY: No						
070375						
SIGNS AND						
SYMPTOMS OF	Headache, Dizziness, Drowsiness, Fatigue	, Irregular Heartbeat, Skin and Eye Irritation.				
EXPOSURE						
NED TO THE PARTY OF THE PARTY O						
MEDICAL CONDITIONS G	ENERALLY AGGRAVATED BY EXPOS	SURE				
EMED CENCY AND						
EMERGENCY AND FIRST AID	Ingestion: Contact Physician or Poison Co	ontrol Immediatley.				
PROCEDURES	innalation: Remove to fresh air. Adminis	ter Oxygen or Artificial Respiration if Necessary.	<u> </u>			
PROCEDURES	Skin: Wash with soap and water.	water. If irritation persists, contact Physician.				
SECTION VIII PRECAUSE			<u> </u>			
SECTION VIII - PRECAUTE	ONS FOR SAFE HANDLING AND USE		<u> </u>			
STEPS TO BE TAKEN	W:					
IN CASE MATERIAL IS	Wipe up with floor absorbent. Transfer to	hood. Prevent run-off to sewers.				
RELEASED OR	Eliminate all sources of ignition. Ventilate	e to maintain exposure below P.E.L.'s. Use sand or other ma	aterial to dam or contain			
SPILLED	Spills. If large spill, notify appropriate sta	te and local agencies.				
	DC Disease of a state in a second state					
WASTE DISTOSAL METHO	DS Dispose of product in accordance with	local, county, state and federal regulations.				
PRECAUTIONS TO BE	Avoid ave contrat with ever Very service	and the state of t				
TAKEN IN HANDLING	Sources and store in a goal area. Avoid in	ner closed. Use with adequate ventilation. Keep away from halation of vapors and personal contact with liquid product.	sparks, flame and heat			
ID STORAGE	Use good personal hygiene practices.	natation of vapors and personal contact with liquid product.	 			
12 01 01 01	ose good personal nygiene practices.		 			
OTHER	Keen Container Closed When Not In Use	Containers should be disposed of in an environmentally sai				
PRECAUTIONS	with Governmental Regulations.	Containers should be disposed of in an environmentally sai	e manner in accordance			
SECTION IX - CONTROL M		<u> </u>				
RESPIRATORY PROTECTION		e airborne concentration, use a PROTECTIVE GLO	100			
Respirator or was mask with app	ropriate NIOSH approved cartridge and con	e airborne concentration, use a				
VENTILATION	LOCAL EXHAUST Supplemental (if r		npervious			
			<u> </u>			
EYE PROTECTION		aintain exposure below P.E.L.'s OTHER R PROTECTIVE CLOTHING OR EQUIPMENT	None			
Chemical splash goggles or approved eye protection. OTHER PROTECTIVE CLOTHING OR EQUIPMENT Impervious Clothing/Boots as needed,						
WORK HYGIENIC PRACTICES Wash thoroughly after handling.						
SECTION X - TRANSPORTATION INFORMATION						
T.M. broken compressions						
TATA PROPER SHIPPING NAME Coating Solution (UN 1139) IATA HAZARD CLASS 3, PG II DOT EXCEPTION See DOT 49CFR 172.102, New Special Provision 149 AND DOT 49CFR 171.8 FOR CONSUMER COMMODITY, ORM-D						
SECTION XI - 313 SUPPLIER NOTIFICATION						
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT -TO-KNOW ACT OF 1986, 40 CFR 372, (see table on page 1 for						
CAS # and percent by weight). Methyl Ethyl Ketone						
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH						
DEFECTS, OR OTHER REPRODUCTIVE HARM.						
	This is the "back" when printed in duplex. Page 2 of 2 pages if not duplex.					
			!			

Prepared By:

THE INFORMATION PROVIDED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM ITS USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND THE VENDORS CONTROL AND SINCE SUBSEQUENT DATA MAY SUGGEST MODIFICATION OF THE INFORMATION, VENDOR ASSUMES NO RESPONSIBILITY FOR THE RESULTS OF ITS USE.

Material Safety Data Sheet

Rubber Roof Cleaner

Date of Preparation: 1/10/95

MSDS No. 23

Revision: 1/26/10

						: I	ACAISIOII. 1/20/10
	Section 1	- Chemical	Product a	nd Comp	any Identi	fication	
Product/Chemical Na Chemical Formula: T CAS Number: NE	me: Rubber						
Other Designations:							
General Use: Cleaning	EPDM mof	material					
Manufacturer: Protect	t All. Inc. 19	10 E. Via Burton S	t. Anaheim C	A 92806_121	5 Dhone (714)4	35 4401 543	V (71 A) (2) E
9716 (Hours: M-F, 8a	am-5pm), (Er	nergency: Chem.	Tel-(800)255-3	3924)			X (714)633-
	Section	1 2 - Compos	ition / Info	rmation	on Ingredi	ents	
Ingredient Name					CAS	Number	% vol
Cleaning Agent				•		NE	24-30
Trace Impurities:	1 00		Ť				
Ingredient	1	HA PEL	ACGIE	1	NIOSI	H REL	NIOSH
Cleaning Agent	TWA none estab.	STEL none estab.	TWA 2 mg/m ³	STEL	TWA	STEL	IDLH
31-8		none estab.	, man	none est.	none estab.	non est.	none estab.
		Section 3	- Hazards	Identific	ation		·
							HMIS
	XXI)	计分录 Emerge	ncy Overvie	W KKKK	r#r	,	H I F 0
	, and the second	Potential :	Health Effe	ets			R 0
Primary Entry Routes	s: Skin, eyes	and inhalation.					PPE†
Target Organs: NF						. 1	†Sec. 8
Acute Effects				_		1	
Inhalation: Breathing Eye: Product may be	g of mist may	cause nasal and n	espiratory irrita	tion.			
Skin: Prolonged or rep	neated contac	taung to the eyes.	on and domestic	ı.		1	
Ingestion: Can cause	gastrointestir	al imitation	on and derman	us.		.	
Carcinogenicity: IAR(C, NTP, and	OSHA do not list I	Rubber Roof Cl	eaner as a car	rcinogen	.]	
Medical Conditions A	ggravated b	y Long-Term Ext	osure: NF		-		
Chronic Effects: Spec	ific toxicolo	y studies have not	t been run on th	is product. I	his hazard eval	uation is base	d on information
from the ingredients, i	nformation f	rom similar produc	ets and professi	onal experien	ce.		
		Section	4 - First A	id Measu	res		·
Inhalation: If affected, give artificial respirati	remove indi	vidual to fresh air.	If breathing is	difficult, adm	ninister oxygen.	If breathing	has stopped,
Eye Contact: Flush wi	th large amor	ison warm, quict a ints of water liftin	na naper & John	attention.	smaller Cas	1:1	
Skin Contact: Thoroug	chly wash ex	nosed area with so	ig upper & rowi	er iius occasio	onally. Get med	ucal attention.	
Ingestion: Do not indu	ce vomiting,	keep person warm	& aniet, get m	edical attentic	mateu cioning	. Launder bei	ore re-use.
and to somming can de	ause chemica	i pneumonitis which	ch can be fatal.			· ma martigi	me are anika
After first aid, get appr	opriate in-pl	ant, paramedic, or	community m	edical suppo	rL	·	
Note to Physicians: NF Special Precautions/Procedures: NF							
Special Precautions/Pi	roceaures: N	·				'	
						;	
	1					:	
						·	
NF=Not Found NE	=None Estab	lished NA=Not	Applicable				

MSDS No. 23	Rubber Roof Cleaner	Revision date: 1/26/10
	Section 5 - Fire-Fighting Measures	tevision date: 1/20/10
Flash Point: Nonflammable Flash Point Method: NA Burning Rate: NF	Tigating Moustains	NFPA
Autoignition Temperature: NF LEL: NF UEL: NF		1 0 B
Flammability Classification: NF Extinguishing Media: Treat prim	ary fire.	
Unusual Fire or Explosion Haza Hazardous Combustion Product	rds: None	
Fire-Fighting Instructions: Do n Fire-Fighting Equipment: Becau	of release runoff from fire control methods to sewers or waterways. se fire may produce toxic thermal decomposition products, wear a self piece operated in a pressure-demand or positive-pressure mode.	-contained breathing
	Section 6 - Accidental Release Measures	
Spill /Leak Procedures: Clean up Small Spills: Absorb liquid on pa containers.		e to waste storage
Sovers of Waterways.	op spill at source, dike far ahead of liquid spill to prevent spreading. D	
other absorbent material and sho	se caution. People not wearing protective equipment should be excluded. Pump to salvage or waste disposal tank. Remaining liquid may be talked into containers. Downweld into Containers. Down applicable OSHA regulations (29 CFR 1910.120).	ed from the area until cen up on sand, earth or
	Section 7 - Handling and Storage	
Storage Requirements: All hazar	rial is slippery. Proper footwear is required. Where splash can occur, usefor prolonged or repeated contact. Wash hands before eating or smoking precautions given in this datasheet must be observed. I local, state and federal requirements.	ise chemical goggles.
Section	on 8 - Exposure Controls / Personal Protection	
Engineering Controls: NE Ventilation: Provide general or lo (Sec. 2). Local exhaust ventilation its source. Administrative Controls: NE	cal exhaust ventilation systems to maintain airborne concentrations bel is preferred because it prevents contaminant dispersion into the work	area by controlling it at
provide adequate worker protection oxygen. For emergency or nonrous Air-purifying respirators do not provided in the property of the property of the property of the property of the property of the property of the property of the property of the property of the provided in the provided	fessional advice prior to respirator selection and use. Follow OSHA re wear a MSHA/NIOSH-approved respirator. Select respirator based on on for given working conditions, level of airborne contamination, and patine operations (cleaning spills, reactor vessels, or storage tanks), wear rotect workers in oxygen-deficient atmospheres. If respirators are used gram that includes at least: medical certification, training, fit-testing, potential and the selection of the	n its suitability to presence of sufficient or an SCBA. Warning!
Protective Clothing/Equipment:	On, cleaning, and convenient, sanitary storage areas. Wearing chemically protective gloves, boots, aprons, and gauntlets to a ded. Wear protective eyeglasses or chemical safety goggles, per OSH 10.133). Contact lenses are not even protective devices. Appropriate of	prevent prolonged or
Safety Stations: Make emergency	with contact lenses. eyewash stations, safety/quick-drench showers, and washing facilities ate contaminated work clothes from street clothes. I sunder before revi-	
Comments: Never eat, drink, or sn eating, drinking, smoking, using the	noke in work areas. Practice good nersonal hypiene after using this me	terial, especially before
Page 2 of 4		

Revision date: 1/26/10	Rubber Roof Cleaner	MSDS No. 23
	Section 9 - Physical and Chemical Properties	111000 110.25
Physical State: Liquid Appearance and Odor: Clear Odor Threshold: NE Vapor Pressure: = H ₂ 0 Vapor Density (Air=1): No va Formula Weight: NF Density: NE Specific Gravity (H ₂ O=1, at a pH: 13.0 – 13.5	Water Solubility: Complete Other Solubilities: NE Boiling Point: 212°F Freezing/Melting Point: 32°F Viscosity: NF Refractive Index: NF Surface Tension: NE	
	Section 10 - Stability and Reactivity	
Stability: Rubber Roof Cleaner Polymerization: Hazardous poly Chemical Incompatibilities: Do Conditions to Avoid: Same. Hazardous Decomposition Pro	s stable at room temperature in closed containers under normal storage and merization cannot occur. not mix with acids. ducts: None.	handling conditions.
	Section 11- Toxicological Information	
Eye Effects: Product may be ento the cyes. Skin Effects: Product may be confirmed unprotected skin. Carcinogenicity: NE *Specific toxicity studies have not been confirmed under the confi	Acute Oral Effects: NE	s, similar products and
professional experience.		
Ecotoxicity: NE	Section 12 - Ecological Information	
Ecoloxicity: NE	Section 12 Division 10	
Disposals Contact your quality	Section 13 - Disposal Considerations	
Disposal Regulatory Requirem disposal (TSD) facility.	or a licensed contractor for detailed recommendations. Follow applicable sents: Transport in DOT-approved containers to an EPA-approved treatments. Clean thoroughly as appropriate to the specific container. Observe recont.	at, storage and
	Section 14 - Transport Information	
Shipping Name: Compound, cleaning, liquid Shipping Symbols: Hazard Class: Not regulated b		
	Section 15 - Regulatory Information	
EPA Regulations: RCRA Hazardous Waste Numbe RCRA Hazardous Waste Classif CERCLA Hazardous Substance 307(a), CAA, Sec. 112	r: Not listed (40 CFR 261.33) cation (40 CFR 261.??): Not classified (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b))(4); CWA, Sec.

MSDS No. 23	Rubber Roof Cleaner	 Revision date: 1/26/10
CERCLA Reportable Quantity (RQ): No RQ for product or any constituent greater than 1% or 0.1% (ca	rcinogen).
SARA 311/312 Codes: NF		F '
SARA Toxic Chemical (40 CFR 37	2.65): No toxic chemical is present greater than 1% or 0.1% (carcino	gen).
SARA EHS (Extremely Hazardous	Substance) (40 CFR 355): No TPQ for product or any constituent gr	eater than 1% or 0.1%
(carcinogen). OSHA Regulations:		
Air Contaminant (29 CFR 1910.10	 	
OSHA Specifically Regulated Subs	stance (29CFR 1910 2222) NF	
State Regulations: NF		
	Section 16 - Other Information	
Prepared By: Protect All, Inc. ww	vv.protectall.com	
Revision Notes:		
1/26/10: Reviewed. No changes.		
12/23/2008: Reviewed. No change	es.	
1/20/06: Adjustment to D.O.T. info	o.	
7/13/2005: Reviewed. No revision		
11/15/2000: Converted to PDF for		
8/2/2000: MSDS reviewed. No ch	langes.	
Additional Hazard Rating System	ns:	
Disclaimer: Judements as to the su	uitability of information herein or the purchaser's purposes are necess	
responsibility. Reasonable care ha	s been taken in the preparation of this information, but Protect All, In	arily the purchaser's
warranties, makes no representation	ns and assumes no responsibility or suitability of this information for	any purchaser's use or
for any consequence of its use.	the second second of the second secon	my perchaser susc or
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Page 4 of 4		1

Material Safety Data Sheet

Rubber Roof Treatment

Date of Preparation: 2/26/00

MSDS No. 42

Date of Preparation: 2/20	5/99					'	Revision: 1/26/10
	Section 1 -	Chemical	Product an	nd Compa	ny Identif	ication	· · · · · · · · · · · · · · · · · · ·
Product/Chemical Nat Chemical Formula: To CAS Number: NE Other Designations: General Use: Treatmen Manufacturer: Protect 9716 (Hours: M-F, 8a	me: Rubber rade Secret at and protection All, Inc. 1910	of Treatment on for EPDM roo E. Via Burton S	f material. t., Anaheim, C.	A 92806-1215			AX (714)635-
	Section 2 - Composition / Information on Ingredients						
Ingredient Name					CAS	Number	% vol
Polymer Waxes			-			N/A	
Trace Impurities:							·
Ingredient	TWA	A PEL STEL	ACGIE		NIOSE		NIOSH
Polymer Waxes	none estab.	none estab.	TWA none estab.	STEL none est.	TWA none estab.	non est.	IDLH
- 1.7.2		none canab.	none catab.	none est.	none estab.	non est.	none estab.
	,	Section 3	- Hazards	Identifica	tion		
Target Organs: NF Acute Effects Inhalation: Breathing Eye: Can cause moder							H 1 F 1 R 1 PPE [†]
Ingestion: Can cause Carcinogenicity: IARO Medical Conditions A Chronic Effects: Spec	Skin: Prolonged or repeated contact can cause moderate irritation and dermatitis. Ingestion: Can cause gastrointestinal irritation. Carcinogenicity: IARC, NTP, and OSHA do not list Rubber Roof Treatment as a carcinogen Medical Conditions Aggravated by Long-Term Exposure: NF Chronic Effects: Specific toxicology studies have not been run on this product. This hazard evaluation is based on information from the ingredients, information from similar products and professional experience.					sed on information	
		Section	<u> 4 - First A</u>	id Measu	res		
Inhalation: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention. Eye Contact: Flush with large amounts of water, lifting upper & lower lids occasionally. Get medical attention. Skin Contact: Thoroughly wash exposed area with soap & water. Remove contaminated clothing. Launder before re-use. Ingestion: Get medical attention After first aid, get appropriate in-plant, paramedic, or community medical support. Note to Physicians: NF Special Precautions/Procedures: NF							
		Section 5 -	Fire-Figh	ting Mea	sures	 -	
Flash Point: Nonflams Flash Point Method: Burning Rate: NF Autoignition Tempera LEL: NF	PMCC iture: NF			0 =		:	NFPA

Revision date: 1/26/10

UEL: NF

Flammability Classification: NF

Extinguishing Media: Treat primary fire.
Unusual Fire or Explosion Hazards: None
Hazardous Combustion Products: None.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: NA

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Clean up spills promptly. Surfaces can be slippery. Spilled material will dry hard and be difficult to remove. Prior to hardening, material is water soluble.

Small Spills: Absorb liquid on paper, floor absorbent, vermiculite or other absorbent material and remove to waste storage containers.

Large Spills

Containment: For large spills, stop spill at source, dike far ahead of liquid spill to prevent spreading. Do not release into sewers or waterways.

Cleanup: People not wearing protective equipment should be excluded from the area until the clean-up has been completed. Pump to salvage or waste disposal tank. Remaining liquid may be taken up on sand, earth or other absorbent material and shoveled into containers.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Wet material is slippery. Proper footwear is required. Rubber gloves are recommended for prolonged or repeated contact. Wash hands before eating or smoking.

Storage Requirements: Keep from freezing. All hazard precautions given in this datasheet must be observed. Regulatory Requirements: Check local, state and federal requirements.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: NE

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls: NE

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wearing chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact is recommended. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worm instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties				
Physical State: Liquid Appearance and Odor: White Odor Threshold: NE Vapor Pressure: 17.2 (Water) Vapor Density (Air=1): No va Formula Weight: NF Density: NE Specific Gravity (H ₂ O=1, at 4	pors are produced.	Water Solubility: Negligible. Other Solubilities: NE Boiling Point: 212°F Freezing/Melting Point: Freezing 32°F Viscosity: NF Refractive Index: NF Surface Tension: NF % Volatile: NF Evaporation Rate (H20=1): 1 pH: NA		
	Section 10 - Stabi	lity and Reactivity		
Stability: Rubber Roof Treatment conditions. Polymerization: Hazardous poly Chemical Incompatibilities: Not Conditions to Avoid: Keep from Hazardous Decomposition Productions of the Condition Production Production Prod	merization cannot occur. ne are known. n freezing. ducts: None.	in closed containers under normal storage	and handling	
<u> </u>	Section 11- Toxico	logical Information		
Eye Effects: NE Skin Effects: NE Carcinogenicity: NE	Acute C Chroni Mutage Teratog	y Data:* nhalation Effects: NE Oral Effects: NE c Effects: NE enicity: NE genicity: NE evaluation is based on information from the ingredien		
professional experience.	numeration one product. This hazard	evaluation is based on intermation from the mgreaten	s, similar products and	
	Section 12 - Ecol	ogical Information		
Ecotoxicity: NE		<u> </u>		
	Section 13 - Dispo	osal Considerations .		
local regulations. Disposal Regulatory Requirem disposal (TSD) facility.	ents: Transport in DOT-approv	ailed recommendations. Follow applicable wed containers to an EPA-approved treatmentate to the specific container. Observe recontainer.	nt, storage and	
	Section 14 - Tran	sport Information		
Shipping Name: NA Shipping Symbols: NA Hazard Class: NA Special Provisions (172.102):	DOT Transportation	Data (49 CFR 172.101):		
	Section 15 - Regu	latory Information		
EPA Regulations: RCRA Hazardous Waste Number RCRA Hazardous Waste Classif CERCLA Hazardous Substance 307(a), CAA, Sec. 112	ication (40 CFR 261.7?): Not c	lassified ic per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec.	

MSDS No. 42	Rubber Roof Treatment Rev	 ision date: 1/26/10
SARA 311/312 Codes: NF SARA Toxic Chemical (40 CFR 37	2): No RQ for product or any constituent greater than 1% or 0.1% (carcin 2.65): No toxic chemical is present greater than 1% or 0.1% (carcinogen Substance) (40 CFR 355): No TPQ for product or any constituent greate 00, Table Z-1, Z-1-A): Not listed	ndgen).
	Section 16 - Other Information	
Prepared By: Protect All, Inc. ww		
Revision Notes: 1/26/10: Reviewed. No changes. 12/23/2008: Reviewed. No changes 7/13/2005: Reviewed. No revision 11/15/2000: Converted to PDF for 8/2/2000: MSDS reviewed. No ch 2/1/99: New product formula repla	ns necessary. mat. anges.	
Additional Hazard Rating System	us:	
responsibility. Reasonable care has	itability of information herein or the purchaser's purposes are necessarily been taken in the preparation of this information, but Protect All, Inc., eas and assumes no responsibility or suitability of this information for any	xtends no
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WINDOW; DOOR & SIDING SEALANT



DESCRIPTION

OSI® QUAD® MAX is the next generation of siding, window and door sealants that offers maximum durability and application performance for use in many interior or exterior conditions. QUAD MAX takes the guess work out of color matching with over 4,600 color matches to primary building material manufacturers. It has been proven to stick on wet and cold surfaces and offers long term durability against the harmful effects of sun exposure. Unlike traditional solvent sealants, QUAD MAX is resistant to bubbling and has no shrinkage. By providing superior protection against air and moisture, you've done it right the first time.

Available As:

ltem #	Size	Color
1868684	9.5 fl oz (280 ml) cartridge	White (001)
Various Colors	9.5 fl oz (280 ml) cartridge	See www.ositough.com
2058483	19.2 fl oz (568 ml) sausage	White (001)

FEATURES & BENEFITS

- •, Flexibility: ± 50% Joint Movement Capability
- Easy to Use in All Temperatures: 0°F to 140°F Application
- 24 Hour Fast Cure for Quicker Protection*
- Available in 4,600+ Color Matches
- Paintable in 1 Hour*
- Strong Adhesion to Most Building Materials Without Primer
 - *Cure time is dependent on temperature, humidity and depth of sealant applied

RECOMMENDED FOR

OSI QUAD Max is designed for interior/exterior use for sealing around windows, doors and siding. It bonds to a wide variety of materials without need for a primer such as fiber cement, cedar, brick, stone, XPS/EPS, coated aluminum, steel, fiberglass, vinyl, PVC, stucco, EIFS, wood, glass, concrete, masonry, flashing tapes and most architectural coatings/finishes.

LIMITATIONS

- DO NOT TOOL or smear/feather on prefinished colored claddings (i.e. siding, trim, etc.) as this will reduce any sealants ability to withstand UV exposure and joint movement, causing premature joint failure and color fading.
- DO NOT use as a nail hole filler or in touch-up applications on prefinished exterior building materials. Follow prefinished cladding manufacturer's instructions for nail hole filling
- · Not recommended for field joint/butt joint applications on pre-finished exterior claddings and trim materials
- Do not use on joints immersed in water or applications requiring continuous water immersion.
- Do not use on roof applications including but not limited to metal roof panels, or on log homes
- Do not use as a traffic bearing sealant
- For joints deeper than 3/8" (9.5 mm), a backing material should be used

COVERAGE

For a 9.5 fl. oz. (280 ml) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 29.1 ft. (8.9 m)
- A 3/8" (9.5 mm) bead extrudes approximately 13.3 ft. (4 m)

For a 19.2 fl. oz. (568 ml) sausage:

- A 1/4" (6 mm) bead extrudes approximately 58.8 ft. (17.9 m)
- A 3/8" (9.5 mm) bead extrudes approximately 26.9 ft. (8.2 m)

OSI® QUAD® MAX Window, Door & Siding Sealant Page 1 of 5



Flashpoint:

TECHNICAL DATA SHEET

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14061 = 61st day of 2014 = March 2, 2014

TECHNICAL DATA

Typical Uncured Physical Properties: **VOC Content:** 2.48% by weight CARB 4,600 color Matches listed on ositough.com Color: 36 g/i SCAQMD rule 1168 Shelf Life: Appearance: Non-slumping paste 24 months from date of manufacture (unopened) Base: Silane Modified Polymer Lot Code **Explanation:** YY= Last two digits of year of manufacture Odor: Alcohol DDD= Day of manufacture based on 365 days in a **Specific Gravity:** 1.4 - 1.5

Example:

Typical Application Properties: **Application Temperature:** Can be applied between 0°F (-18°C) and 140°F (60°C) For easier extrusion of sealant at lower temperatures, store cartridge at room temperature at least 24 hours prior to use Skin Formation Time: 17-20 minutes* At 72°F and 70% relative humidity Tack-free Time: 15 hours At 72°F and 70% relative humidity **Cure Time:** 24-72 hours* *Cure time is dependent on temperature, humidity and depth of sealant applied **Extrusion Rate:** 42 ml/min ASTM C1183 (Procedure A) Vertical Sag: **ASTM C639**

Typical Cured Performance Properties: Color: Various colors Hardness: 32 ASTM C661 Service Temperature: -14°F (-25°C) to 158°F (70°C) Joint Movement: ± 50% ASTM C719 Water Resistant: Yes Tensile Strength: 234 psi ASTM D412 Paintable: Yes, with latex paint or primer Maximum Elongation: 577% ASTM D412 **Bubble Resistant:** Nail-Hole Filling: DO NOT use as a nail hole filler or in touch-up applications on prefinished colored claddings and trim. Suitable only on unfinished or primed siding materials prior to painting. Follow prefinished cladding manufacturer's instructions for nail hole filling.

ASTM C794 180° Peel Adhesion: Specifications: Meets the performance requirements of: PVC Trim: 47.6 lb./in ASTM C 920: Type S, Grade NS, Use NT, Class 50, M, G and A Fiber Cement: 47.0 lb./in Federal Spec. TT-S-00230C, Type II Coated (Painted) Aluminum: 51.1 lb./in AAMA 808.3 (Type I) Exterior Perimeter Sealing

Vinyl Siding: 54.7 lb./in AAMA 802.3 (Type I) & 805.2 (Group C) Back Bedding/Glazing 42.0 lb./in Mortar:

AAMA 713-08 Chemical Compatibility of Sealants

GREENGUARD Certified

DIRECTIONS

Tools Typically Required: Utility knife and caulking gun. For best application results, OSI recommends the use of a high-quality caulking gun such as the Albion® B12 Cartridge Gun.

Safety Precautions: Wear gloves and wash hands after use.

224.6° F (107° C)

0 inches

Surface Preparation: All surfaces should be clean, dry, and free of all contaminates, such as, old caulking, grease, dust, and any other material that can interfere with adhesion. Remove any ice, snow, or frost that may be present on substrates. For more information refer to cladding manufacturer's instructions for approved cleaning methods. Ensure proper drain plane design to avoid trapped water and or moisture. The combination of trapped moisture and other variables will tend to create back pressure and cause sealant bubbling regardless of technology. While QUAD MAX is generally considered a non-priming sealant, special circumstances or substrates may require a primer. It is the user's responsibility to test substrate compatibility and the adhesion of the cured sealant on a test joint before applying to the entire project. It is also the end user's responsibility to verify acceptable color match to all substrates prior to the start of job and during the application.

> OSI® QUAD® MAX Window, Door & Siding Sealant Page 2 of 5



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DIRECTIONS

Masonry: Concrete, stone, stucco and other masonry must be cleaned where necessary by grinding or wire brushing to expose a sound surface free of contamination and laitance. Concrete must be fully cured and free of release agents.

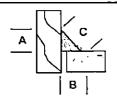
<u>Wood and painted wood:</u> New and weathered wood must be clean and structurally sound. Cut back weathered surfaces and dry rot until clean, sound wood is reached. Scrape away paint to bare wood. Any coating that cannot be removed must be tested to verify adhesion of the sealant. QUAD MAX will adhere to most new and old, dry, oil-free wood.

Metal: Remove scale, rust, and residue from metal to expose a bright metal sheen by wire brushing. Remove any chemical residue, film/oils, and loose or incompatible coatings using the appropriate solvent. Any coating that cannot be removed must be tested to verify adhesion of the sealant. Remove any other coatings or finishes that could interfere with adhesion. An adhesion test is recommended for anodized aluminum or any questionable substrates.

Joint Preparation: The number of joints and the joint width should be designed for a maximum of ± 50% joint movement from the initial joint width. The depth of the sealant joint should be one-half the width of the joint. The maximum depth is ½ inch (13 mm) and the minimum is ¼" (6 mm). The minimum recommended joint width is 1/4" inch and the maximum recommended joint width is 5/8" inches (15 mm). See table below.

Joint Width (inches)	Sealant Depth @ Midpoint (inches)
1/4	1/4
1/2	1/4
5/8	1/2

Joint Width (mm)	Sealant Depth @ Midpoint (mm)
6	6
13	-6
15	13

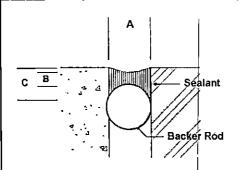


Fillet Joint Design

- Dimension A and B must be a minimum of ¼"
- Dimension C must be a minimum of 3/4"

Fig. 1

Fig. 2



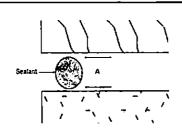
Control Joint Design

- Dimension A must be a minimum of ¾" or maximum of ⅓"
- Dimension B must be a minimum of 1/4" depth
- Dimension C can be a maximum of 1/2"

Dynamic Joint Design

- Dimension A can be up to ¾" wide
- Dimension B must be 3/6" in depth
- Dimension C must be a maximum depth of ½"

NOTE: Form bead to a concave shape keeping sealant inside the joint edges. DO NOT bridge the sealant or smear beyond the joint edges otherwise it may result in premature color fading on prefinished siding and trim materials. Tooling spatula recommended. Size to joint width. Use masking tape to prevent smearing of sealant if necessary.



Bedding Bead Structure

- Dimension A must be a ¾" rounded sealant bead
- Apply sealant to substrate.
- Minimize pressure when applying sealant to maintain a rounded bead
 - Compress sealant between both substrates
- Avoid excessive substrate movement after compression. Movement of the substrates can smear sealant and breakdown the sealants capacity to maintain a seal.

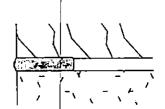


Fig. 3



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DIRECTIONS

If the depth of the joint exceeds 3/8" (9.5 mm) the use of a backer rod such as a Closed-Cell Backer-Rod or Soft Backer-Rod is recommended. Where the joint depth does not permit the use of backer-rod, a bond breaker (polyethylene strip) must be used to prevent three-sided adhesion. To maintain the recommended sealant depth, install backer-rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-Cell Backer-Rod should be approximately 1/8" (3 mm) larger in diameter than the width of the joint to allow for compression. Soft Backer-Rod should be approximately 25% larger in diameter than the joint width. Backer-rod becomes an integral part of the joint. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer-rod.

General Preparation: The temperature of the product, the surfaces and the working area should be between 0°F (-18°C) and 140°F (60°C). For best performance, store cartridge at room temperature at least 24 hours before use. Use nozzle to fully puncture seal and cut the tip at a 30° to 45° angle with a sharp blade. Screw on plastic nozzle, insert cartridge into a high-quality caulking gun, and dispense a 3/8" bead of sealant for optimal joint protection. For more information, refer to ASTM C1193 – Standard Guide for Use of Joint Sealants.

Application Instructions:

Using a caulking gun, the sealant can be pushed or pulled when applying but positive pressure should be maintained throughout extrusion. Use steady pressure to force sealant into joint ensuring an adequate and even bond of sealant to substrate and to maintain consistency avoiding irregular bead shapes, such as, too small or too large. If the depth of the joint exceeds 3/8" (9.5 mm) the use of a backer rod is recommended. Always apply sealant in a bead form. A fillet joint is formed when two surfaces come together to form a right angle (see Fig. 1). The sealant used to join these two surfaces is triangular in shape. Masking tape can be used to ensure a clean application. DO NOT TOOL or smear/feather on prefinished colored claddings (i.e. siding, trim) as this will reduce any sealants ability to withstand UV exposure and joint movement, causing premature joint failure and color fading. If masking tape is used along the sides of the joint to prevent surface smearing, ensure the tape is removed immediately by pulling the tape away. Full cure may take 24-72 hours or longer depending on ambient conditions and volume of sealant used. Sealant is paintable in 1 hour*. High quality latex paint is recommended. If using oil based/alkyd paint, a latex primer should be used first. (See OSI BEST PRACTICE GUIDE FOR PROPER INSTALLATION).

Tips on Terminating Sealant Beads:

- Terminating Beads at the End of a Joint: When terminating a bead at the end of a joint, first release dispensing gun pressure to prevent run-on by pressing the release trigger, then use a twist and pinch motion at a sharp angle to sever the bead. In the event of excess string formation, guide onto existing bead. DO NOT pull or smear the bead onto adjacent surfaces like cladding or trim materials. DO NOT TOOL on prefinished cladding or trim materials.
- Terminating Beads that will be Continued: When terminating a bead that is to be continued (i.e. at the end of a tube), first release dispensing gun pressure to prevent run-on by pressing the release trigger. Next, pinch-off the bead by pressing the nozzle onto the joint surface to cut-off the bead. DO NOT smear bead onto adjacent surfaces. This action will create a slight smear inside the joint. Cover this smear with the start of the next bead

DO NOT TOOL: Do Not Tool or smear/feather sealant on prefinished colored claddings (i.e. siding, trim) as this will reduce any sealants ability to withstand UV exposure and joint movement, causing premature joint failure and color fading. If smearing/feathering of the sealant occurs, painting over the smeared areas will be the only corrective resolution.

DO NOT USE AS NAIL HOLE FILLER: DO NOT use as a nail hole filler or in touch-up applications. Doing so will limit the sealant's ability to withstand UV exposure, and will result in fading or white out within six months. Follow prefinished cladding manufacturer's instructions for nail hole filling.

BUTT / FIELD JOINT APPLICATIONS: QUAD MAX is not recommended for field joint/butt joint applications on pre-finished siding and trim materials. However, QUAD MAX may be used in butt or field joint applications on unfinished or primed siding and trim materials prior to painting. Care must be taken to NOT smear the sealant beyond the joint edges. Masking tape can be used to ensure a clean application. It should be noted that joint widths of less than ¼" and ¼" in depth will become "maintenance" situations and need to be inspected regularly for premature failure. The reason being that joints less than ¼" are too small to accommodate a sufficient amount of sealant in the joint to warrant long term durability. If the sealant is showing signs of degradation, remove sealant and apply fresh sealant to the joint. What is important to know is that all sealants will require maintenance and sometimes replacement, because of the effects of aging, insufficient sealant used, or because of poor joint design. When using prefinished exterior claddings (i.e. siding and trim) please refer to manufacturer's instructions for proper installation.

CONTROL / DYNAMIC JOINT APPLICATIONS: For control and dynamic joints form bead to a concave shape (see Fig. 2). Use of a spatula, sized to joint width. Care must be taken to NOT smear the sealant beyond the joint edges. Masking tape can be used to ensure a clean application and prevent smearing sealant on adjacent surfaces.

COMMERICAL APPLICATIONS: For all commercial applications or applications not mentioned herein contact Henkel Technical support for review of intended use.

PAINTABILITY: QUAD MAX can be painted one hour after application using a high quality exterior latex paint. In situations where less humidity is present it is important to wait until a skin has formed over the sealant before painting. In joints that have a high degree of movement capability, the paint can crack, distort, or delaminate from the substrate. The reason for this is simple: the paint does not have the flexibility of a high movement/ Class 50 sealant, such as, QUAD MAX. It is the responsibility of the applicator to conduct on-site testing to determine compatibility and adhesion. It is always recommended to use a color matched sealant where available. Visit OSITough.com for a complete color match listing.

<u>Clean-up:</u> Clean tools and uncured sealant residue immediately with mineral spirits or paint thinner following solvent manufacturers precautions. Cured sealant must be carefully cut away with a sharp-edged tool. **NOTE:** Use of solvents may damage prefinished siding and trim materials. Always test a small area before proceeding! Painting affected areas may be only remedy.



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STORAGE & DISPOSAL

NOT DAMAGED BY FREEZING. Store away from heat, flame and spark in a cool, dry, well-ventilated area. Storing product in too hot or too cold of conditions will considerably reduce Shelf Life of unopened containers. Use an approved hazardous waste facility for disposal.

LABEL PRECAUTIONS

WARNING! UNCURED SEALANT IRRITATES EYES, SKIN AND RESPIRATORY TRACT.

WARNINGI Contains vinyl trimethoxysilane. May be harmful if inhaled or swallowed. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea. Use in a well-ventilated area. Do not breathe vapors. Avoid eye and skin contact. Prolonged or repeated skin contact with uncured sealant may cause irritation. Wear gloves and safety glasses when applying product. Remove contact lenses before using sealant. Wash hands after using. FIRST AID: For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash thoroughly with soap and water. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting; call a physician or Poison Control Center immediately. DO NOT TAKE INTERNALLY, KEEP OUT OF THE REACH OF CHILDREN.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Refer to the Safety Data Sheet (SDS) for further information.

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

LIMITED WARRANTY

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.



OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.

OSI works side by side with residential builders, contractors and remodeling professionals who use our products every day on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

For Technical Assistance call: 1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET www.ositough.com



OSI Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

Henkel Corporation - Professional & Consumer Adhesives Headquarters - Rocky Hill, CT 06067 www.henkel-northamerica.com



Blue DEF Diesel Exhaust Fluid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ECTION 1: Identification of the sub	stance	/mixture and of the compa	ny/undertakin		
1.1. Product Identifier				~	
Product form	: Mixt	ure			
Product name.	: Blue	DEF Diesel Exhaust Fluid			
1.2. Relevant identified uses of the subs	stance o	r mixture and uses advised again	ct		
Use of the substance/mixture		tion for NOx reduction in SCR syste		·	
1.3. Details of the supplier of the safety	ļ	•			
Old World Industries, LLC	uata siis	<u>get</u>			
4065 Commercial Ave.					
Northbrook, IL 60062 - USA T (847) 559-2000					
www.aldworldind.com	<u> </u>				
1.4. Emergency telephone number	_		The state of the s		
Emergency number	: (800) 424-9300; (703) 527 3887 (Interna			
	Chei	mtrec	,		
SECTION 2: Hazards identification					
2.1. Classification of the substance or n					
	iixture				
GHS-US classification					
Not classified					
*****	<u> </u>				
2.2. Label elements	- 17-2				
GHS-US labelling					
Signal word (GHS-US)	: None	•			
्रियाय statements (GHS-US)	: None	9'			
ecautionary statements (GHS-US)	: None)			
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS-US)					
No data available	-				
				1	
SECTION 3: Composition/informatio	n on in	gredients	<u> </u>		^
3.1. Substance	-				
Not applicable					
3.2. Mixture					
Name		Product identifier	% by wt	GHS-U	S classification
Water		(CAS No) 7732-18-5	67.5	Not clas	
urea	<u> </u>	(CAS No) 57-13-6	32.5	Not clas	sified
SECTION 4: First aid measures		* *)			
4.1. Description of first aid measures					
First-aid measures general	: Neve	r give anything by mouth to an unco e (show the label where possible).	onscious person. If	ou feel un	well, seek medical
First-aid measures after inhalation	ľ	victim to breathe fresh air. Allow th	e victim to rest.		
First-aid measures after skin contact	: Rem	ove affected clothing and wash all e		ith mild so	i ap and water, followed
First-aid measures after eye contact	: Rinse persi	e immediately with plenty of water. (st.	Obtain medical atter	ition if pain	blinking or redness
First-aid measures after ingestion	: Rinse	e mouth, Do NOT induce vomiting, (Obtain emergency n	nedical atte	i ention:
1. Most important symptoms and effec	ı		-		
mptoms/injuries	ı	expected to present a significant haz	ard under anticipate	ed conditio	ns of normal use.
03/18/2015	EN (E	Inglish)	www.xiie.a		Page 1
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BlueDEF Diesel Exhaust Fluid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

In any case was a second of the second of th		<u></u>
	attention and special treatment needed	
o additional information available		1
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Sand.	<u> </u>
Unsuitable extinguishing media	: Do not use a heavy water stream.	!
5.2. Special hazards arising from the sub	stance or mixture	
No additional information available		
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise cautio	n when fighting any
	chemical fire. Prevent fire-fighting water from entering environment.	i when lighting any
Protection during firefighting	: Do not enter fire area without proper protective equipment, including re	spiratory protection.
SECTION 6: Accidental release meas	ures	
6.1. Personal precautions, protective equ		**************************************
General measures	The EPA has no established reportable quantity for spills for this mater containment is not specified.	ial, secondary
	somanament is not specified.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	Equip cleanup crew with proper protection.	1
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.	'
}. Methods and material for containmen	nt and cleaning up	
zithods for cleaning up	: Dilute with plenty of water and mop up. Soak up spills with inert solids	such as clay or
	diatomaceous earth as soon as possible. Collect spillage. Store away f	rom other materials.
6.4. Reference to other sections		
See Heading 8. Exposure controls and personal p	rotection,	<u> </u>
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before smoking and when leaving work. Provide good ventilation in process ar of vapor.	eating, drinking or ea to prevent formation
7.2. Conditions for safe storage, includin		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away Heat sources. Keep container closed when not in use.	from : Direct sunlight,
Incompatible products	: Strong bases, Strong acids,	
Incompatible materials	: Sources of ignition. Direct sunlight.	
7.3. Specific end use(s)		!
No additional information available		
SECTION 8: Exposure controls/perso	nal protection	· · · · · · · · · · · · · · · · · · ·
8.1. Control parameters	The state of the s	
No additional information available		
8.2. Exposure controls		
Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective goggles.	The state of the s
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Hand protection

! Wear protective gloves.

! Chemical goggles or safety glasses.

! Spiratory protection

! Wear appropriate mask.

Other information

! Do not eat, drink or smoke during use.

	. So not only drink of shoke during use.	
SECTION 9: Physical and chemical p		
9.1. Information on basic physical and c		
Physical state	: Liquid	
Color	: Coloriess;Clear	
Odor	: ammonia odor	
Odor threshold	: No data available	
pΗ	: 9-10	
Relative evaporation rate (butylacetate=1)	: <1	
Freezing point	: -11 °C (12 °F)	
Boiling point	: > 100 °C (212 °F)	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: Not Applicable	
Relative vapor density at 20 °C	: 0,6 H2O, >1	
Specific Gravity	: 1.09	
Solubility	: Soluble in water. Water: 100 %	
Log Pow	: No data available	
Log Kow	: No data available	
scosity, kinematic	: No data available	
್ರಚಿcosity, dynamic	: No data available	1
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosive limits	: No data available	
	. No data available	
9.2. Other information No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		j
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		<u> </u>
Not established.		
10.4. Conditions to avoid	No. 16. AND TO S. AND T. AND	
No additional information available		
10.5. Incompatible materials		
Strong acids. Strong bases, oxidizing agents (per	oxides, chromates, dichromates).	
10.6. Hazardous decomposition products		
Carbon monoxide, Carbon dioxide, Fume.		
SECTION 11: Toxicological information	on'	
11.1. Information on toxicological effects		
ute toxicity	: Not classified	
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_Urea (57-13-6) _D50 oral rat		
_D50 dermal rat	8,471 mg/kg (Rat)	
LD50 dermal rabbit	> 3,200 mg/kg (Rat)	
ATE US (oral)	> 21,000 mg/kg (Rabbit)	
Skin corrosion/irritation	8,471 mg/kg bodyweight : Not classified	
	pH: 9 - 10	
Serious eye damage/irritation	: Not classified	
	pH: 9 - 10	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity		
Specific target organ toxicity (single exposure)	: Not classified	
	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met.	
symptoms		
SECTION 12: Ecological information		
12.1. Toxicity		
urea (57-13-6)		ř ,
LC50 fish 1	> 6,810 mg/l (96 h; Leuciscus idus)	
EC50 Daphnia 1	> 10,000 mg/l (48 h; Daphnia magna)	
LC50 fish 2	17,500 mg/l (96 h; Poecilia reticulata)	
C50 Daphnia 2	> 10,000 mg/l (24 h; Daphnia magna)	
"LM fish 1	17,500 ppm (96 h; Poecilia reticulata)	
Threshold limit other aquatic organisms 1 Threshold limit other aquatic organisms 2	120,000 mg/l (16 h; Bacteria; Toxicity test)	
Threshold limit algae 2	> 10,000 mg/l (Pseudomonas putida)	
·····	> 10,000 mg/l (168 h; Scenedesmus quadricauda)	
12.2. Persistence and degradability		
urea (57-13-6)		
Persistence and degradability	Inherently biodegradable. Hydrolysis in water.	
ThOD	0.27 g O₂/g substance	
12.3. Bioaccumulative potential	1	
urea (57-13-6)		
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)	1
BCF other aquatic organisms 1	11700 (Chlorella sp.)	<u> </u>
Log Pow	-2,591,59	
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4. Mobility in soil		
14-		
12.5. Other adverse effects	3	
Effect on ozone layer	:	
Effect on global warming	: No known ecological damage caused by this product.	
Other information	: Avoid release to the environment.	
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SECTION 13: Disposal consideratio	ņs		
3.1. Waste treatment methods			;
ুaste disposal recommendations	liquid waste, it s	fe manner in accordance with local/national regulations, should be solidified with stabilizing agents such as sand, hat no free liquid remains before disposal to an industria	fly ach or clay
Ecology - waste materials	: Avoid release to	the environment.	i vasto tarionii.
SECTION 14: Transport information			
In accordance with DOT		<u> </u>	·
Not a dangerous good in sense of transport regu	ulations		
Other information	: No supplementa	ary information available.	
ADR			
No additional information available	i .		
Transport by sea	İ		
UN-No. (IMDG)	Not regulated by	v IMDC (in quantities under 5 000 lb - t	
· ,	. Not regulated by	y IMDG (in quantities under 5,000 lbs in any one inner p	ackage)
Air transport	1		
UN-No.(IATA)	: Not regulated by	y IATA (in quantities under 5,000 lbs in any one inner pa	ickage)
		·	5-7
SECTION 15: Regulatory information			
15.1. US Federal regulations	·		
BlueDEF Diesel Exhaust Fluid			
EPA TSCA Regulatory Flag		I 	
	1	This material or all of its components are listed on the of Exisiting Chemical Substances under the Toxic Sub Control Act (TCSA)	Inventory pstance
RQ (Reportable quantity, section 304 of EPA's		None. This material is not classified as hazardous und EPA regulations.	ler U.S.
SARA Section 302 Threshold Planning Quantit	y (TPQ)	No extremely hazardous substances are in this produce	
SARA Section 311/312 Hazard Classes	<u> </u>	Urea. No hazards resulting from the material as suppli	ed.
urea (57-13-6)	-	1	
SARA Section 311/312 Hazard Classes	Immediate (acut	te) health hazard	
15.2. International regulations			
CANADA	1		
BlueDEF Diesel Exhaust Fluid	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
WHMIS Classification	Uncontrolled pro	oduct according to WHMIS classification criteria	
WHMIS Classification	!	desired to William Charletta	
Uncontrolled product			
according to WHMIS classification criteria	Ì		
EU-Regulations	: •		
No additional information available			
Classification according to Regulation (EC) N			
Classification according to Directive 67/548/E	EC [DSD] or 1999/4	I5/EC [DPD]	
Not classified			
15.2.2. National regulations			
BlueDEF Diesel Exhaust Fluid			
Canadian Environmental Protection Act (CEPA) information: All ingr	redients listed appear on the Domestic Substances List	(DSL).
•			
15.3. US State regulations			
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SECTION 16: Other information

NFPA health hazard

 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

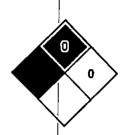
NFPA fire hazard

0 - Materials that will not burn.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 0 Minimal Hazard

Physical

0 Minimal Hazard

Personal Protection

: в

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.



Fleet Charge 50/50 Prediluted Antifreeze & Coolant

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SECTION 4. H. A.S.		
SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking	
1.1. Product identifier		,
Product form	: Mixture	
Product name	: Fleet Charge 50/50 Prediluted Antifreeze & Coolant	
1.2. Relevant identified uses of the sub-	tance or mixture and uses advised against	
Use of the substance/mixture	: Heavy Duty Engine Coolant	
1.3. Details of the supplier of the safety	data sheet	
Old World Industries, LLC 4065 Commercial Ave.		
Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com		
1.4. Emergency telephone number		
Emergency number	: (800) 424-9300; (703) 527 3887 (International) Chemtrec	
SECTION 2: Hazards identification	*	
2.1. Classification of the substance or m	ixture	
GHS-US classification		
Acute Tox. 4 (Oral) H302		
STOT RE 2 H373		
Full text of H-phrases: see section 16		
2.2. Label elements		
HS-US labelling		
Hazard pictograms (GHS-US)		
Signal word (GHS-US)	GHS07 GHS08 : Warning	
Hazard statements (GHS-US)	: H302 - Harmful if swallowed	
Precautionary statements (GHS-US)	H373 - May cause damage to organs (kidneys) through prolonged or : P201 - Obtain special instructions before use	1
i	P202 - Do not handle until all safety precautions have been read and P260 - Do not breathe mist, spray, vapors	understood
	P264 - Wash affected areas thoroughly after handling	
	P270 - Do not eat, drink or smoke when using this product P280 - Wear personal protective equipment as required	
	P301+P310 - If swallowed: Immediately call doctor/physician or poiso:	 n center
	P301+P330+P331 - If swallowed: rinse mouth, Do NOT induce vomition	nia
	P304+P340 - If inhaled: Remove person to fresh air and keep comfort P308+P313 - If exposed or concerned: Get medical advice/attention	able for breathing
	P405 - Store locked up	
	P501 - Dispose of contents/container, in a safe manner, to appropriate in accordance with local/regional/national/international regulations	waste disposal facility,
	seestatinee mai locastegionavilationavillernational regulations	
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS-US)		
No data available		
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SECTION 3: Composition/information	on on i	igredients						
1. Substance								
ot applicable								
3.2. Mixture								
Name.	 	Product identifier	% by wt	GHS-US classification				
ethylene glycol		(CAS No) 107-21-1	<= 50	Acute Tox. 4 (Oral), H302				
water		(CAS No) 7732-18-5	< 50	Not classified				
diethylene glycol	-	(CAS No) 111-46-6	< 3	Acute Tox. 4 (Oral), H302				
denatonium benzoate		(CAS No) 3734-33-6	30 - 50 ppm	STOT RE 2, H373 Acute Tox. 4 (Oral), H302 Skin Irrit! 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335				
SECTION 4: First aid measures				1				
.1. Description of first aid measures	 -							
irst-aid measures general	· New	or give english by mouth to		(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)				
general	advio	er give anything by mouth to an i e (show the label where possible	unconscious person. If y leì.	ou feel unwell, seek medical				
First-aid measures after inhalation	: If bre		to fresh air and keep at	rest in a position comfortable for o rest. If not breathing, give				
First-aid measures after skin contact	: Rem cloth least	ove contaminated clothing. Was	h with pienty of soap an	d water. Wash contaminated tely with plenty of water (for at tment (see supplemental first aid				
First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.								
irst-aid measures after ingestion	: Obta him/h NOT advice	n emergency medical attention, ler drink two glasses of water. N induce vomiting. Call a POISON e is delayed, and if the person h	Rinse mouth, If the persever give an unconscioud CENTER/doctor/physicals swallowed a modera	son is fully conscious, make us person anything to drink. Do cian if you feel unwell. If medical				
.2. Most important symptoms and effect	propo ts, both	as), then give three to four ounce ortionally less liquor, according to acute and delayed	es of hard liquor, such a beginning to weight.	s whiskey! For children, give				
ymptoms/injuries ymptoms/injuries after skin contact	1	es damage to organs (kidneys)	(oral).					
ymptoms/injuries after eye contact		es skin irritation.						
ymptoms/injuries after eye contact ymptoms/injuries after ingestion	1	es serious eye damage.						
-	in nur	nans is estimated to be 100 mL	(3 oz).	us health hazard. The lethal dose				
Indication of any immediate medica	attentio	n and special treatment needs	d					
more effective intravenous antidote for physici ormation of toxic metabolites of ethylene glycol, netabolic acidosis coma, seizures, and renal fail	n nas bei	30 USEO to decrease the metabo	hibitor of alcohol dehydr lic consequences of eth	ogenases, which effectively blocks ylene glycol poisoning before				
ECTION 5: Firefighting measures								
1. Extinguishing media								
uitable extinguishing media	: Water	fog. Fine water spray. Alcohol- er. Sand.	resistant foam. Foam. C	arbon dioxide. Dry chemical				
nsuitable extinguishing media	1	t use a heavy water stream. Ma	y spread fire.					
	stance	or mixture						
Special hazards arising from the sul	1							
	varyın	g a fire, smoke may contain the g composition which may be to ot limited to: Carbon monoxide, (dc and/or irritating. Com	ion to combustion products of bustion products may include and				
re hazard	are no	g composition which may be to ot limited to: Carbon monoxide. (dic and/or irritating. Com Carbon dioxide.	bustion products may include and				
eactivity	are no	g composition which may be to	dic and/or irritating. Com Carbon dioxide.	bustion products may include and				
re hazard eactivity 3. Advice for firefighters	are no	g composition which may be too t limited to: Carbon monoxide, (ngerous reactions known under	dc and/or irritating. Com Carbon dioxide. normal conditions of us	e.				
re hazard eactivity 3. Advice for firefighters	: Use w	g composition which may be too t limited to: Carbon monoxide, (ngerous reactions known under	dc and/or irritating. Com Carbon dioxide. normal conditions of us	e.				
eactivity	: Use w	g composition which may be too t limited to: Carbon monoxide, (ngerous reactions known under	dc and/or irritating. Com Carbon dioxide. normal conditions of us cosed containers. Exerci er from entering environ	e. se caution when fighting any				

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Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

ECTION 6: Accidental release measures

				And the second of the party of the second			
l6.1.	Darcana	Invacations	nrotoatisis	AMILIMAN	tand on		procedures
10.1.	reisona	i precautions	. DIOLECLIVE	: cuulbillel:	i anu en	ieruency	mocedures

6.1.1. For non-emergency personnel

Emergency procedures

Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Emergency procedures Equip cleanup crew with proper protection. Refer to section 8.2.

Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash affected area's thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

ൂറrage conditions

Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -37 °C (-34 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill,

weld, use a blowtorch on, etc. containers even when empty.

Keep away from strong acids, strong bases and oxidizing agents.

Incompatible products Incompatible materials

Sources of ignition,

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)	}	
USA ACGIH	ACGIH Ceiling (mg/m³)	100.00 mg/m³
USA ACGIH	Remark (ACGI뉘)	Upper Respiratory Tract (URT) & Eye irritant

8.2. Exposure controls

Personal protective equipment

: Avoid all unnecessary exposure. Gloves. Safety glasses.





Hand protection

Wear protective gloves.

Eye protection

Other information

Chemical goggles or safety glasses.

Respiratory protection

: If exposed to levels above exposure limits wear appropriate respiratory protection.

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

_		• •								. — '.					
	מו	tor	mai	inn	On.	hac	ir n	ivsica	land	1 6	1em	ical	nro	DOD	rioc
 •		101	mat		011	200		гүзгса		,	10111	ıca	, ,,,	MC1	1160

Julysical state : Liquid

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Color	: Pink	
~or	Mild	
or threshold	No data available	
pН	10.5 - 11	
Relative evaporation rate (butylacetate=1)	Nil	
Freezing point	-37 °C (-34 °F)	
Boiling point	107 °C (224 °F)	
Flash point	116 °C (241 °F) [100% Ethylene Glycol] ASTM D56	15
Auto-ignition temperature	400 °C (752 °F) [100% Ethylene Glycol] Literature	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: < 0.1 mm Hg @ 20 ℃	
Relative vapor density at 20 °C	: No data available	
Specific Gravity	: 1.07	
Density	: 1.04 kg/l (8.7 lbs/gal)	
Solubility	: Water: Complete	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, kinematic Viscosity, dynamic	: No data available	
Explosive properties	: Not applicable,	
Oxidizing properties	: Not applicable.	
Explosive limits	: Not applicable.	
9.2. Other information		
VOC content	: 0.00 %	
ECTION 10: Stability and reactivity	W ₃ · · · · · · · ·	
(10.1. Reactivity		
No dangerous reactions known under normal co	nditions of use	
	nutions of use.	
10.2. Chemical stability		
Stable.		
10.3. Possibility of hazardous reactions		
Hazardous polymerization will not occur.		
10.4. Conditions to avoid		
Keep away from any flames or sparking source.	Extremely high or low temperatures.	
,10.5. Incompatible materials		
Keep away from strong acids, strong bases and	oxidizing agents.	
ļ		
10.6. Hazardous decomposition products		
Carbon dioxide, Carbon monoxide, Fume, Alcoh		
SECTION 11: Toxicological informat	lion	
11.1. Information on toxicological effects		
Acute toxicity	: Oral: Harmful if swallowed.	
diethylene glycol (111-46-6)	,	
	12.565 mg/kg (Rat)	
LD50 oral rat	12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit)	
LD50 oral rat LD50 dermal rabbit	11,890 mg/kg (Rabbit)	
LD50 oral rat LD50 dermal rabbit ATE US (oral)	11,890 mg/kg (Rabbit) 500 mg/kg bodyweight	
LD50 oral rat LD50 dermal rabbit ATE US (oral) ATE US (dermal)	11,890 mg/kg (Rabbit)	
LD50 oral rat LD50 dermal rabbit ATE US (oral)	11,890 mg/kg (Rabbit) 500 mg/kg bodyweight	
LD50 oral rat LD50 dermal rabbit ATE US (oral) ATE US (dermal) ethylene glycol (107-21-1)	11,890 mg/kg (Rabbit) 500 mg/kg bodyweight 11,890 mg/kg bodyweight	

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denatonium benzoate (3734-33-6)	
D50 oral rat	584 mg/kg (Rat)
D50 dermal rabbit	> 2,000 mg/kg (Rabbit)
ATE US (oral)	584 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: 10.5 - 11
Serious eye damage/irritation	: Not classified
	pH: 10.5 - 11
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye damage,
Symptoms/injuries after ingestion	Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).
SECTION 12: Ecological information	
12.1. Toxicity	

SECTION 12: Ecological informatio	n ,	
12.1. Toxicity		
diethylene glycol (111-46-6)		
`` _₹ C50 fish 1	> 5,000 ppm (24 h; Carassius auratus)	
≗C50 other aquatic organisms 1	1,174 mg/l (Xenopus laevis)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	61,072 ppm (168 h; Poecilia reticulata)	
TLM fish 1	> 32,000 mg/l (96 h; Gambusia affinis)	
TLM other aquatic organisms 1	> 1,000 ppm (96 h)	
Threshold limit other aquatic organisms 1	1,174 mg/l (72 h; Xenopus laevis; Toxicity test)	
Threshold limit other aquatic organisms 2	10,745 mg/l (16 h; Protozoa; Toxicity test)	
Threshold limit algae 1	2,700 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	100 mg/l (Selenastrum capricornutum)	
ethylene glycol (107-21-1)	42	
LC50 fish 1	53,000 mg/l (96 h; Pimephales promelas; Static system)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	40,761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)	
Threshold limit algae 1	> 10,000 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	2,000 mg/l (192 h; Microcystis aeruginosa)	
denatonium benzoate (3734-33-6)		
LC50 fish 1	> 1,000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	13 mg/l (48 h; Daphnia magna)	
2.2. Persistence and degradability		
diethylene glycol (111-46-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.	

12.2. Persistence and degradability		
diethylene glycol (111-46-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.	
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.51 g O₂/g substance	
ThOD	1.51 g O₂/g substance	
BOD (% of ThOD)	0.015 % ThOD	
hylene glycol (107-21-1)		
: ersistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Not established.	

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Fleet Charge 50/50 Prediluted Antifreeze & Coolant

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diethylene glycol (111-46-6)		1
liochemical oxygen demand (BOD)	0.47 g O₂/g substance	
hemical oxygen demand (COD)	1.24 g O₂/g substance	-
ThOD	1.29 g O₂/g substance	<u> </u>
BOD (% of ThOD)	0.36 % ThOD	
denatorium benzoate (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility available.	of the substance
2.3. Bioaccumulative potential		
diethylene glycol (111-46-6)		
Log Pow	-1.98	
Bioaccumulative potential	Bioaccumulation: not applicable.	
ethylene glycol (107-21-1)	Dioaccumulation, not applicable.	
BCF fish 1	10 (72 h; Leuciscus idus)	!
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp.; Chronic)	
BCF other aquatic organisms 2	190 (24 h; Algae)	<u> </u>
Log Pow	-1.34 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.	
denatonium benzoate (3734-33-6)	1) Low potential for bloaccumulation (bor > 500). Not established.	
Log Pow	1.78 (Estimated value)	:
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	<u> </u>
	Low potential for bloaccumulation (Log Now < 4).	
2.4. Mobility in sail		
		<u> </u>
diethylene glycol (111-46-6)		1
Surface tension	0.0485 N/m	
ethylene glycol (107-21-1)		
্রিurface tension	0.048 N/m (20 °C / 68 °F)	
5. Other adverse effects		ļ
Effect on ozone layer	: No known effect on the ozone layer	
-	·	
Effect on global warming	: No known ecological damage caused by this product.	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideratio	ns	
13.1. Waste treatment methods		
Waste disposal recommendations	: Dispose of contents/container, in a safe manner, to appropriate waste accordance with local/regional/national/international regulations.	disposal facility, in
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		<u> </u>
n accordance with DOT	- HN0000 F	
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III	
JN-No.(DOT)	: 3082	
DOT NA no.	: UN3082	
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.	
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140	
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)	
OT Symbols	: G - Identifies PSN requiring a technical name	
acking group (DOT)	: III - Minor Danger	
	Amioi wongo.	
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Fleet Charge 50/50 Prediluted Antifreeze & Coolant

passenger vessel.

package).

Safety	Data	Sh	eet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Packaging Exceptions (49 CFR 173.xxx) :	155
OT Packaging Non Bulk (49 CFR 173.xxx)	203
∂T Packaging Bulk (49 CFR 173,xxx) :	241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	No limit
DOT Quantity Limitations Cargo aircraft only (49	No limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

DOT Vessel Stowage Location

Other information

ADR

No additional information available

Transport by sea UN-No. (IMDG)

UN-No.(IATA)

Air transport

Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner

Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

SECTION 15: Regulatory information

15.1. US Federal regulations		
Fleet Charge 50/50 Prediluted Antifreeze & C	oolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
diethylene glycol (111-46-6)		

isted on the United States TSCA (Toxic Substances Control Act) inventory

thylene glycol (107-21-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's | 5000 lb(s)

List of Lists)
SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard Delayed (chronic) health hazard

Ethylene glycol is subject to Tier 1 and/or Tier II annual inventory reporting.

Ethylene glycol is subject to Form R Reporting requirements.

SARA Section 313 - Emission Reporting denatonium benzoate (3734-33-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Fleet Charge 50/50 Prediluted Antifreeze & Coolant

WHMIS Classification

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

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WHMIS Classification



Class D Division 2 Subdivision A - Very toxic material causing other toxic

TI-Regulations

additional information available

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Fleet Charge 50/50 Prediluted Antifreeze & Coolant Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Classification according to Regulation (EC) No. 1272/2008 [CLP] assification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] t classified الب، National regulations 15.2.2. Fleet Charge 50/50 Prediluted Antifreeze & Coolant DSL (Canada): The intentional ingredients of this product are listed ECL (South Korea): The intentional ingredients of this product are listed. EINECS (Europe): The intentional ingredients of this product are listed ENCS (Japan): The intentional ingredients of this product are listed 15.3. US State regulations ethylene glycol (107-21-1) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List SECTION 16: Other information Full text of H-phrases: Acute Tox, 4 (Oral) Acute toxicity (oral), Category 4 Eve Irrit, 2A Serious eye damage/eye irritation, Category 2A Skin corrosion/irritation, Category 2 Skin Irrit, 2 Specific target organ toxicity - Repeated exposure, Category 2 STOT RE 2 Specific target organ toxicity --- Single exposure, Category 3, STOT SE 3 Respiratory tract irritation H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation May cause damage to organs through prolonged or repeated H373 exposure 1 - Exposure could cause irritation but only minor residual NFPA health hazard injury even if no treatment is given. NFPA fire hazard 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, NFPA reactivity and are not reactive with water. HMIS III Rating : 2 Moderate Hazard - Temporary or minor injury may occur Health : 1 Slight Hazard Flammability : 0 Minimal Hazard **Physical** : B Personal Protection

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability erising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS GHS US (GHS HazCom 2012) OWI



CTION 1: Identification of the su	ibstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: NAPA Concentrate Antifreeze & Coolant
1.2. Relevant identified uses of the sul	ostance or mixture and uses advised against
Use of the substance/mixture	Automotive Engine Antifreeze & Coolant
1.3. Details of the supplier of the safet	y data sheet
Old World Industries, LLC 4065 Commercial Ave. Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com	
1.4. Emergency telephone number	
Emergency number	(800) 424-9300; (703) 527 3887 (International) Chemtrec
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
GHS-US classification	
Acute Tox. 4 (Oral) H302 STOT RE 2 H373	
Full text of H-phrases: see section 16	
2.2. Label elements	
CHS-US labelling 'zard pictograms (GHS-US)	
	GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)
Precautionary statements (GHS-US)	: P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe mist, spray, vapors P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear personal protective equipment as required P301+P310 - If swallowed: Immediately call doctor/physician or poison center P301+P330+P331 - If swallowed: rinse mouth, Do NOT induce vomiting P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention P405 - Store locked up P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
No data available	
SECTION 3: Composition/informati	on on ingredients
Substance	· · · · · · · · · · · · · · · · · · ·
t applicable	
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3.2. Mixture			
ame	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS No) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
diethylene glycol	(CAS No) 111-46-6	< 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water	(CAS No) 7732-18-5	< 4	Not classified
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302
			Skin Irrit. 2, H315 Eye Irrit. 2A, H319
			STOT SE 3, H335
SECTION 4: First aid measures			
.1. Description of first aid measures			
rirst-aid measures general	: Never give anything by mouth to an uncoadvice (show the label where possible).	onscious person. If y	ou feel unwell, seek medical
First-aid measures after inhalation	If breathing is difficult, remove victim to f	resh air and keep at	rest in a position comfortable for
	breathing. Seek immediate medical advi- artificial respiration. If breathing is difficu	ce, Allow the victim t	o rest. If not breathing, give
First-aid measures after skin contact	Remove contaminated clothing. Wash w	ith plenty of soap an	d water. Wash contaminated
	clothing before reuse. If skin irritation occleast 15 minutes). Get medical advice/at instructions on this label).	curs: Rinse immedia tention. Specific trea	tely with plenty of water (for at at a later) timent (see supplemental first aid
First-aid measures after eye contact	Remove contact lenses, if present and e plenty of water for 15 minutes, lifting low immediately with plenty of water. Get me	er and upper lids. If	eye irritation persists: Rinse
First-aid measures after ingestion	Obtain emergency medical attention. Rir him/her drink two glasses of water. Neve NOT induce vomiting. Call a POISON Ct advice is delayed, and if the person has ounces), then give three to four ounces or proportionally less liquor, according to w	nse mouth. If the per or give an unconscio ENTER/doctor/physi swallowed a modera of hard liquor, such a	son is fully conscious, make us person anything to drink. Do cian if you feel unwell. If medical ate volume of material (a few
Most important symptoms and effects		eigiit.	
தாptoms/injuries	Causes damage to organs (kidneys) ora	al.	
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye damage.		
Symptoms/injuries after ingestion	 Swallowing a small quantity of this mater in humans is estimated to be 100 mL (3) 	rial will result in seric oz).	ous health hazard. The lethal dose
.3. Indication of any immediate medical	attention and special treatment needed		
A more effective intravenous antidote for physicial ormation of toxic metabolites of ethylene glycol. It netabolic acidosis coma, seizures, and renal failu	has been used to decrease the metabolic	tor of alcohol dehyd consequences of eth	rogenases, which effectively blocks hylene glycol poisoning before
SECTION 5: Firefighting measures	3 a	** · · · ·	
.1. Extinguishing media	- china a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a		
Suitable extinguishing media	 Water fog. Fine water spray. Alcohol-res powder. Sand. 	istant foam, Foam, (Carbon dioxide. Dry chemical
Insuitable extinguishing media	: Do not use a heavy water stream. May s	pread fire.	
.2. Special hazards arising from the subs			
Fire hazard	 During a fire, smoke may contain the ori- varying composition which may be toxic are not limited to: Carbon monoxide. Car 	and/or irritating. Cor	ition to combustion products of nbustion products may include and
Reactivity	: No dangerous reactions known under no		se.
.3. Advice for firefighters			
	: Use water spray or fog for cooling expos chemical fire. Prevent fire-fighting water		
Protection during firefighting	: Do not enter fire area without proper pro	=	I
	: Wear positive pressure self-contained br	eathing apparatus (SCBA). Protective fire fighting
7	clothing (includes fire-fighting helmet, co	at, pants, boots and	gloves).
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SECTION 6: Accidental release meas	ures '		
Personal precautions, protective equ	pment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protect	tion. Refer to section 8.2.	
Emergency procedures	: Ventilate area.	}	
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or publi	c waters.	
6.3. Methods and material for containmen	nt and cleaning up		
Methods for cleaning up	Soak up spills with inert solids, such a spillage. Store away from other materi	s clay or diatomaceous earth as soon as poss als.	sible. Collect
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal	protection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling	À		
Precautions for safe handling	 Wash hands and other exposed areas smoking and when leaving work. Prov of vapor. 	with mild soap and water before eating, drini ide good ventilation in process area to prever	king or it formation
Hygiene measures	handling.	y this product, Wash affected areas thoroughl	y after
7.2. Conditions for safe storage, including			
Storage conditions	Keep container closed when not in us	a cool, well ventilated place away from : Heat e. Product may become solid at temperatures stuffs, drugs or potable water supplies. Do no ers even when empty	s below -18
4compatible products	: Keep away from strong acids, strong I		
Incompatible materials	: Sources of ignition.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/person	ngal protection		
8.1. Control parameters			
ethylene glycol (107-21-1) USA ACGIH ACGIH Ceiling	(ma/m³)	100.00 mg/m³	
USA ACGIH Remark (ACGI		Upper Respiratory Tract (URT) & Eye irritar	nt
8.2. Exposure controls			
Personal protective equipment	: Avoid all unnecessary exposure. Glov	res. Safety glasses.	
•			
Hand protection	: Wear protective gloves.		
Eye protection			
Respiratory protection	: If exposed to levels above exposure limits wear appropriate respiratory protection.		
Other information : Do not eat, drink or smoke during use.			
SECTION 9: Physical and chemical			
9.1. Information on basic physical and c			
Physical state	: Liquid		
olor	: Green		
Odor	: Mild	1	
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	: No data available	
∄50% water solution	: 10.5 - 11	
√lative evaporation rate (butylacetate=1)	: Nii	
Freezing point	: -18 °C (0 °F)	
Boiling point	158 °C (317 °F)	
Flash point	116 °C (241 °F) [100% Ethylene Glycol] ASTM D56	
Auto-ignition temperature	400 °C (752 °F) [100% Ethylene Glycol] Literature	
Decomposition temperature	No data available	
Flammability (solid, gas)	No data available	
Vapor pressure	< 0.1 mm Hg @ 20 °C	
Relative vapor density at 20 °C	No data available	
Specific Gravity	1.12	
Density	1.12 kg/l (9.3 lbs/gal)	
Sölubility	: Water: Complete	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosive limits	: 3.2 - 15,3 vol %	
9.2. Other information		
VOC content	: 0.00 %	
VOC Content.	. 0.00 %	
SECTION 10: Stability and reactivity	ALC: 1 TE	·
11. Reactivity		
angerous reactions known under normal-co	onditions of use.	
10.2. Chemical stability		
Stable.		
10.3. Possibility of hazardous reactions		
Hazardous polymerization will not occur.		
		·
10.4. Conditions to avoid	Eutromoly high as law tomporatures	
Woon away from any tinmes or energing course.	, Extremiely high or low temperatures.	
Keep away from any flames or sparking source.		
10.5. Incompatible materials		
(10.5. Incompatible materials Keep away from strong acids, strong bases and	oxidizing agents.	
10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product	oxidizing agents.	
(10.5. Incompatible materials Keep away from strong acids, strong bases and	oxidizing agents.	
(10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product.	oxidizing agents. shols. Aldehydes. Ethers.	
10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohol.	oxidizing agents. shols. Aldehydes. Ethers.	
10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide, Carbon monoxide, Fume, Alcohol SECTION 11: Toxicological informa	oxidizing agents. shols. Aldehydes. Ethers.	
(10.5. Incompatible materials Keep away from strong acids, strong bases and [10.6. Hazardous decomposition product Carbon dioxide, Carbon monoxide, Fume, Alcoholic SECTION 11: Toxicological information [10.5].	oxidizing agents. shols. Aldehydes. Ethers.	
10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product. Carbon dioxide. Carbon monoxide. Fume. Alcohage SECTION 11: Toxicological information on toxicological effects. Acute toxicity	oxidizing agents. shols. Aldehydes. Ethers.	
(10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohological information on toxicological effects	oxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed.	
10.5. Incompatible materials Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohagical information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1)	oxidizing agents. shols. Aldehydes. Ethers.	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcoh SECTION 11: Toxicological information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat	coxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat)	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohological information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral)	coxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat)	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohological information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) diethylene glycol (111-46-6) LD50 dermal rabbit	coxidizing agents. Shools. Aldehydes. Ethers. Lion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat) 500 mg/kg bodyweight 12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit)	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohological information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) diethylene glycol (111-46-6) LD50 dermal rabbit ATE US (oral)	coxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat) 500 mg/kg bodyweight 12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit) 500 mg/kg bodyweight	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcoh SECTION 11: Toxicological information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) diethylene glycol (111-46-6) LD50 dermal rabbit ATE US (oral) ATE US (oral)	coxidizing agents. Shools. Aldehydes. Ethers. Lion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat) 500 mg/kg bodyweight 12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit)	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcol SECTION 11: Toxicological information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) diethylene glycol (111-46-6) LD50 dermal rabbit ATE.US (oral) ATE.US (oral) ATE US (dermal) lenatonium benzoate (3734-33-6)	coxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat) 500 mg/kg bodyweight 12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit) 500 mg/kg bodyweight 11,890 mg/kg bodyweight 11,890 mg/kg bodyweight	
Keep away from strong acids, strong bases and 10.6. Hazardous decomposition product Carbon dioxide. Carbon monoxide. Fume. Alcohological information. Information on toxicological effects Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) diethylene glycol (111-46-6) LD50 dermal rabbit ATE US (oral) ATE US (oral)	coxidizing agents. shols. Aldehydes. Ethers. tion : Oral: Harmful if swallowed. > 5,000 mg/kg (Rat) 500 mg/kg bodyweight 12,565 mg/kg (Rat) 11,890 mg/kg (Rabbit) 500 mg/kg bodyweight	

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ethylene glycol (107-21-1)	
D50 dermal rabbit	> 2,000 mg/kg (Rabbit)
TE US (oral)	584 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye damage.
Symptoms/injuries after ingestion	Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).
SECTION 12: Ecological information	
12.1. Toxicity	100 yr. 1 - 100 yr

	in reginal to be fee in the (o ob).	
SECTION 12: Ecological information	n i de la companya de la companya de la companya de la companya de la companya de la companya de la companya d	
2.1. Toxicity		
ethylene glycol (107-21-1)		
LC50 fish 1	53,000 mg/l (96 h; Pimephales promelas; Static system)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	40,761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)	
hreshold limit algae 1	> 10,000 mg/l (168 h; Scenedesmus quadricauda)	-
hreshold limit algae 2	2,000 mg/l (192 h; Microcystis aeruginosa)	
diethylene glycol (111-46-6)	,	
LC50 fish 1	> 5,000 ppm (24 h; Carassius auratus)	
LC50 other aquatic organisms 1	1,174 mg/l (Xenopus laevis)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	61,072 ppm (168 h; Poecilia reticulata)	-
TLM fish 1	> 32,000 mg/l (96 h; Gambusia affinis)	
TLM other aquatic organisms 1	> 1,000 ppm (96 h)	
Threshold limit other aquatic organisms 1	1,174 mg/l (72 h; Xenopus laevis; Toxicity test)	
Threshold limit other aquatic organisms 2	10,745 mg/l (16 h; Protozoa; Toxicity test)	
Threshold limit algae 1	2,700 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	100 mg/i (Selenastrum capricornutum)	
denatonium benzoate (3734-33-6)	- 	
LC50 fish 1	> 1,000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	13 mg/l (48 h; Daphnia magna)	
2.2. Persistence and degradability		
ethylene glycol (107-21-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O₂/g substance	
ThOD	1.29 g O ₂ /g substance	
BOD (% of ThOD)	0.36 % ThOD	
diethylene glycol (111-46-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.	
Riochemical oxygen demand (BOD)	0.02 g O ₂ /g substance	
hemical oxygen demand (COD)	1.51 g O ₂ /g substance	
rhOD	1.51 g O ₂ /g substance	
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ccording to Federal Register / Vol. 77, No. 58 / Monday	March 20, 2012 / Rules and Regulatoris	
ethylene glycol (107-21-1)	, , , , , , , , , , , , , , , , , , , ,	
OD (% of ThOD)	0.015 % ThOD	
enatonium benzoate (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility available.	of the substance
12.3. Bloaccumulative potential		i
ethylene glycol (107-21-1)		
BCF fish 1	10 (72 h; Leuciscus idus)	
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp.; Chronic)	
BCF other aquatic organisms 2	190 (24 h; Algae)	
Log Pow	-1.34 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	<u> </u>
diethylene glycol (111-46-6)		<u> </u>
Log Pow	-1.98	
Bioaccumulative potential	Bioaccumulation: not applicable.	
denatonium benzoate (3734-33-6)		
Log Pow	1.78 (Estimated value)	-
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	-
12.4. Mobility in soil		
othylana shari 407 04 4)	1	
ethylene glycol (107-21-1) Surface tension	U. O. 0.40 AM (0.0 BO / CO.05)	
	0.048 N/m (20 °C / 68 °F)	
diethylene glycol (111-46-6) Surface tension	0.0405 N/	
Surface tension	0.0485 N/m	<u> </u>
12.5. Other adverse effects		
Effect on ozone layer	: No known effect on the ozone layer	
ect on global warming	: No known ecological damage caused by this product.	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideration	15	
13.1. Waste treatment methods		
Waste disposal recommendations	: Dispose of contents/container, in a safe manner, to appropriate waste	dia
rraste disposal recommendations	accordance with local/regional/national/international regulations.	disposal facility, in
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		
In accordance with DOT		
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III	
UN-No.(DOT)	: 3082	1
DOT NA no.	: UN3082	
Proper Shipping Name (DOT)		
Department of Transportation (DOT) Hazard	: Environmentally hazardous substances, liquid, n.o.s. : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173,140	
Classes	0.01	ļ.
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)	
DOT Symbols	: G - Identifies PSN requiring a technical name	
Packing group (DOT)	: III - Minor Danger	
POT Packaging Exceptions (49 CFR 173.xxx)	: 155	
•	: ZU3	
T Packaging Non Bulk (49 CFR 173.xxx)	: 203 : 241	
•	: 241	
T Packaging Non Bulk (49 CFR 173.xxx)		6/8

	10000 000000000000000000000000000000000
Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, N	larch 26, 2012 / Rules and Regulations
DOT Quantity Limitations Passenger aircraft/rail CFR 173.27)	: No limit
T Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).
ADR	
No additional information available	
Transport by sea	
UN-No. (IMDG)	Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)
Air transport	
UN-No.(IATA)	: Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)
	•
SECTION 15: Regulatory information	The state of the s
15.1. US Federal regulations	
NAPA Concentrate Antifreeze & Coolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Substatisted on United States SARA Section 313	nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb(s)
ARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
1	Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.
diethylene glycol (111-46-6)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
denatonium benzoate (3734-33-6)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory

15.2. International regulations

CANADA

NAPA Concentrate Antifreeze & Coolant	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

WHMIS Classification



Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

assification according to Directive 67/548 EEC [DSD] or 1999/45/EC [DPD]

Not classified

04/14/2015 EN (English)

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Safety Data Sheet

04/14/2015

according	to Federal Register / Vol. 77, No. 58 / Monday, N	larch 26, 2012 / Rules and Re	gulations
15.2.2.	National regulations	1	
	A Concentrate Antifreeze & Coolant		
	(Canada): The intentional ingredients of thi		· · · · · · · · · · · · · · · · · · ·
J ECL ((Canada): The intentional ingredients of thi (South Korea): The intentional ingredients o	s product are listed	
FINE	CS (Europe): The intentional ingredients of	this product are listed.	
	S (Japan): The intentional ingredients of thi		
<u> </u>	To include ingredients of the	Spreador are asted	
i			
ME O U	io otali antilatiana	-	
(15.5. U	S State regulations		
		1	
		j	
-43	1407.04.4		
	ne glycol (107-21-1)		
	Massachusetts - Right To Know List		
	New Jersey - Right to Know Hazardous Sub	stance List	
0.51	Pennsylvania - RTK (Right to Know) List		
diethyl	lene glycol (111-46-6)		
			CHARLES AND AND AND AND AND AND AND AND AND AND
0.5 1	Pennsylvania - RTK (Right to Know) - Envir	onmental Hazard List	
SECT	ION 16: Other information	I	
SEC I	ION 16: Other information		
Full tex	t of H-phrases:	<u> </u>	
	Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4
	Eye Irrit, 2A		Serious eye damage/eye irritation, Category 2A
	Skin Irrit, 2		Skin corrosion/irritation, Category 2
	STOT RE 2		Specific target organ toxicity — Repeated exposure, Category 2
	STOT SE 3		Specific target organ toxicity — Single exposure, Category 3,
	010,020		Respiratory tract irritation
	H302		Harmful if swallowed
,	H315		Causes skin irritation
	H319		
			Causes serious eye irritation
	H335		May cause respiratory irritation
	H373		May cause damage to organs through prolonged or repeated
ļ			exposure
MEDAI	health hazard	1 Evacaura could cours	riritation but only minor residual
INFFA	nealth hazard	injury even if no treatmen	t is given
NEDA	_ , ,	, ,	
	fire hazard	1 - Must be preheated be	fore ignition can occur.
NFPA i	reactivity		under fire exposure conditions, 0
		and are not reactive with	water,
	II Rating		
Health		: 2 Moderate Hazard - Te	mporary or minor injury may occur
Flamm	ability	: 1 Slight Hazard	
Physica	al ,	: 0 Minimal Hazard	
_			
Person	al Protection	: B	
252.01	10 1/0 (0) (0 1/1 - 0 - 0 0 40) (0) (1		
SDS GF	IS US (GHS HazCom 2012) OWI		
Old Wode	d Industries TTC makes no warranty representation or or	rerentee se la the secursor cufficie	ncy or completeness of the material set forth herein. It is the user's responsibility to determine the
safety, to	xicily and suitability of his own use, handling and disposal	of this product. Since actual use b	y others is beyond our control, no warranty, expressed or implied, is made by Old World Industries,
LLC as to	the effects of such use, the results to be obtained or the	safety and toxicity of this product, n	or does Old World Industries, LLC assume liability arising out of the use by others of this product is not relate to use in combination with any other material or in any process.
reterred (o mereur. The date in this 3D3 relates only to the specific	material vesignated nerein and doe	ъ постение то изе иг сопишнатон with any other material or in any process.
]		
, =			

EN (English)

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SAFETY DATA SHEET

1 Identification

oduct number

1000028751

Product identifier

13 OZ NAPA MAC'S BATTERY TERMINAL CLEANER 1072

Company information

NAPA Balkamp

2601 Stout Heritage Parkway Plainfield, IN 46168 United States

Company phone

General Assistance 1-317-754-3900

Emergency telephone US

1-866-836-8855

Emergency telephone outside

1-952-852-4646

US

Version #

01

Recommended use
Recommended restrictions

CLEANER None known.

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response

Wash hands after handling.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Isopropyl Alcohol		67-63-0	2.5 - 10
Propane		74-98-6	2.5 - 10
Sodium Carbonate Anhydrous		497-19-8	1 - 2.5
Other components below reportable	evels		80 - 90

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4 First-aid measures

alation Skin contact If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Wash off with soap and water. Get medical attention if irritation develops and persists.

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016 Eye contact

Ingestion

Most important

symptoms/effects, acute and

delayed

Indication of immediate edical attention and special eatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available.

Do not use water jet as an extinguisher, as this will spread the fire.

Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur.

Direct contact with eyes may cause temporary irritation.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

thods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122|°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS)!

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 Components
 Type
 Value

 Isopropyl Alcohol (CAS 67-63-0)
 PEL 980 mg/m3

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

211	OSHA Table 2	7_1 i imits	for Air Co	ntaminante	(29 CER	1010 1000\
UJ.	CODE LADIE	C1 L.IIIIII	IUI AII GU	mannams	IZS GER	19 IU. IVUUI

Components	Тур	oe `	. Va	lue	
			40	0 ppm	
Propane (CAS 74-98-6)	PE	L	18	00 mg/m3	
			10	00 ppm	
US. ACGIH Threshold Lin	nit Values				
Components	Туј	oe .	Va	lue	
Butane (CAS 106-97-8)	ST	EL.	10	00 ppm	
Isopropyl Alcohol (CAS 67-63-0)	ST	EL	40	0 ppm	
·	TW	' A	20	0 ppm	
US. NIOSH: Pocket Guide	e to Chemical Hazard	5			
Components	Тур	oe	Va	lue	
Butane (CAS 106-97-8)	TW	'A	19	00 mg/m3	
			80	0 ppm	
Isopropyl Alcohol (CAS 67-63-0)	ST	EL	12	25 mg/m3	
·			-50	0 ppm	
	TW	/ A	98	0 mg/m3	
			40	0 ppm	
Propane (CAS 74-98-6)	TW	/ A	18	00 mg/m3	
•			10	00 ppm	
logical limit values					
ACGIH Biological Expos	ure Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Gas.

Form Aerosol

Color Not available.

dor Not available.

Not available.

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK

Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

Not available. pН Not available.

Melting point/freezing point

Initial boiling point and boiling range

212 °F (100 °C) estimated

-156.0 °F (-104.4 °C) PROPELLANT estimated Flash point

aporation rate Not available. Not available. ammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

2.5 % estimated

(%)

Flammability limit - upper

12 % estimated

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure

60 psig @70F estimated

Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

Not explosive. **Explosive properties** Not oxidizing. Oxidizing properties

0.95 @70F estimated Specific gravity

້າປີ. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Nitrates. Isocyanates. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product name: 13 OZ MACS BTTY TRMINAL ČLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

	Components	Speci	ns Tas	st Results	
	Butane (CAS 106-97-8)	ОРОО	143	resures	
	Acute				
	Inhalation				
	LC50	Mouse	123	37 mg/l, 120 Minute	es
*	:			%, 120 Minutes	-
Ĺ		Rat		55 mg/l	
	Isopropyl Alcohol (CAS 67-63-0)	Nat	100	JS IIIg/I	
	Acute				
	<u>Acute</u> Dermal				
	LD50	Rabbi	16.4	4 ml/kg, 24 Hours	
	Inhalation			3 , 1	
	LC50	Rat	> 10	0000 ppm, 6 Hours	5
	Oral			•• •	
	LD50	Rat	5.84	4 g/kg	
	Propane (CAS 74-98-6)				
	Acute				
	Inhalation				
	LC50	Mouse	123	37 mg/l, 120 Minute	es
			52 9	%, 120 Minutes	
		Rat	135	55 mg/l	
			658	8 mg/l/4h	
	Sodium Carbonate Anhydrous (CAS	497-19	8)		
	<u>Acute</u>		,		
	Dermal				
	LD50	Rabbi	>2	.000 mg/kg	
خر	_ Inhalation				
Ĺ	LC50	Guine	a pig 800	0 mg/m3, 2 Hours	
	Aerosol				
	LC50	Mouse	120	00 mg/m3, 2 Hours	S
		Rat	230	00 mg/m3, 2 Hours	3
	LC50	Rat	2.3	mg/l, 2 hours sup	plier
	Oral				
	LD50	Rat	280	00 mg/kg	
	* Estimatos for product may be	harod c	n additìonal component data not shown.		
	Skin corrosion/irritation		ed skin contact may cause temporary irritation.		
	Serious eye damage/eye	_	ontact with eyes may cause temporary irritation.		
	irritation	5, 5			
	Respiratory or skin sensitization				
	Respiratory sensitization	Not a re	spiratory sensitizer.		
	Skin sensitization	This pro	duct is not expected to cause skin sensitization.		
	Germ cell mutagenicity		available to indicate product or any components r	present at greater t	than 0.1% are
	Ounder would be	·=·	nic or genotoxic.	C ACCUL NTD	OCUA
	Carcinogenicity		duct is not considered to be a carcinogen by IARC	C, ACGIA, NTP, OI	OSHA.
	IARC Monographs. Overall E	valuatio	n of Carcinogenicity		
	Not listed. OSHA Specifically Regulated	Substa	nces (29 CFR 1910.1001-1050)		
	Not regulated,		·		
ن	US. National Toxicology Prog	gram (N	P) Report on Carcinogens		
	Not listed.				
	Reproductive toxicity	This pro	duct is not expected to cause reproductive or dev	relopmental effects	·

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

specific target organ to

repeated exposure
Aspiration hazard

Not classified.

Not likely, due to the form of the product.

. Ecological information

⊏cotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

_	possibility		rmful or damaging effect on the environment
Components	<u> </u>	Species	Test Results
Isopropyl Alcohol (CAS	67-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Sodium Carbonate Anh	ydrous (CAS 497-	19-8)	
Aquatic			
Crustacea	EC50	Daphnia	265 mg/L, 48 Hours
	j	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours
* Estimates for product	may be based on a	additional component data not shown.	
ersistence and degradab	ility No data is	available on the degradability of this prod	luct.
ioaccumulative potential	!		
Partition coefficient n-	-octanol / water (l	og Kow)	
Butane	1	2.89	
Isopropyl Alcohol		0.05	
Propane		2.36	
obility in soil	No data a	vailable.	
ther adverse effects		dverse environmental effects (e.g. ozone endocrine disruption, global warming poter	

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82

Product #: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK
Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

SDS US

Packaging exceptions 306 Packaging non bulk None Packaging bulk None

IATA

UN number UN1950

Aerosols, flammable UN proper shipping name

Transport hazard class(es)

2.1 Class

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

No. 10L

ERG Code

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only

Allowed with restrictions.

Packaging Exceptions

LTD QTY

IMDG

UN number UN proper shipping name UN1950 **AEROSOLS**

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

None

Packing group

Not applicable.

Environmental hazards

Marine pollutant

No.

EmS

F-D, S-₩

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

DOT





15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0)

Listed: January 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

issue date

06-27-2016

Version#

01

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

vision information

Product and Company Identification: Product and Company Identification

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

Version: 1.0 Revision Date: 02/03/2020

SAFETY DATA SHEET

1. Identification

Product identifier: NAPA MAC'S 1073 BATTERY TERMINAL PROTECTOR NON CHLORINATED

Other means of identification

SDS number:

RE1000036023

Recommended restrictions

Product use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name:

NAPA BALKAMP

1601 Whitaker Rd

INDIANAPOLIS, IN 46168

Telephone:

Address:

317-837-2800

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol

Category 1

Health Hazards

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

Toxic to reproduction

Category 2

Specific Target Organ Toxicity -

Category 31.

Single Exposure

Specific Target Organ Toxicity -

Category 2

Repeated Exposure

Aspiration Hazard

Category 1

Target Organs

Narcotic effect.

Environmental Hazards

Acute hazards to the aguatic

Category 3

environment

Label Elements

Hazard Symbol:



Signal Word:

Danger

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Hazard Statement:

Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.

Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Petrolatum	8009-03-8	20 - <50%
Benzene, methyl-	108-88-3	10 - <25%
Propane	74-98-6	10 - <20%
Butane	106-97-8	10 - <20%
2-Propanone	67-64-1	10 - <20%
Distillates (petroleum), hydrotreated light	64742-47-8	5 - <10%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion:

Call a physician or poison control center immediately. Rinse mouth, Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation:

Move to fresh air.

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Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effec	ts, acute and delayed
Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medica	l attention and special treatment needed
Treatment:	No data available.
5. Fire-fighting measures	
General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Suitable (and unsuitable) exting	guishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	Vapors may travel considerable distance to a source of ignition and flash back.
Special protective equipment a	nd precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measur	es
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

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7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 2

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Petrolatum - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Petrolatum - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
<u>_</u>	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, methyl-	STEL	150 ppm 560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Donizono, mostyr	REL	100 ppm 375 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards (2005)
 -	TWA	100 ppm 375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
-	TWA	20 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
-	STEL	150 ppm 560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Propane	REL	1,000 ppm 1,800 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards (2005)
· · · · · · · · · · · · · · · · · · ·	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Butane	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US, ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
2-Propanone	STEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
-	PEL	1,000 ppm 2,400 mg/m3	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	250 ppm	US. ACGIH Threshold Limit Values (03 2015)
-	TWA	750 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910,1000) (1989)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated light	REL	100 mg/m3	US, NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated light - Non- aerosol as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
	TŴA	200 mg/m3	US, ACGIH Threshold Limit Values (2008)
Distillates (petroleum), hydrotreated heavy naphthenic	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910,1000) (1989)
Distillates (petroleum), hydrotreated heavy naphthenic	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

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Distillates (petroleum).	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (0	3 2014)
hydrotreated heavy		1	`	·
naphthenic - Inhalable				
fraction.		<u> </u>		
Distillates (petroleum),	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemic	al Hazards (2010)
hydrotreated heavy		_	Ì	, ,
naphthenic				
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Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03/2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift,)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03/2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03/2015)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection:

No data available.

Other:

Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures:

Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

Spray Aerosol

Color:

No data available.

No data available.

Odor threshold:

No data available.

pH:

Odor:

No data available.

Melting point/freezing point:

No data available.

Initial boiling point and boiling range:

Estimated 56.05 °C

Flash Point:

Estimated -104.4 °C

Evaporation rate:

No data available.

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Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Estimated 10.3 %(V)

Flammability limit - lower (%):

Estimated 2.1 %(V)

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

2,757 - 4,136 hPa (20 °C)

Vapor density:

No data available.

Density:

No data available.

Relative density:

No data available.

Solubility(ies)

Solubility in water:

No data available.

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available.

Auto-ignition temperature:

No data available.

Decomposition temperature:

No data available. No data available.

Viscosity:

10. Stability and reactivity

Reactivity:

No data available.

Chemical Stability:

Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid:

Avoid heat or contamination.

Incompatible Materials:

No data available.

Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

Information on toxicological effects

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Acute toxicity (list all possible routes of exposure)

Product:

Not classified for acute toxicity based on available data.

Specified substance(s):

Petrolatum

LD 50 (Rat): > 5,000 mg/kgLD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 5,000 mg/kgLD 50 (Rat): > 5,000 mg/kg

Benzene, methyl-

LD 50 (Rat): 5,580 mg/kg

2-Propanone

LD 50 (Rat): 5,800 mg/kg

Distillates (petroleum), hydrotreated light

LD 50 (Rat): > 5,000 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s):

Petrolatum

LD 50 (Rabbit): > 3,600 mg/kg LD 50 (Rabbit): > 2,000 mg/kg LD 50 (Rat): > 2,000 mg/kg

Benzene, methyl-

LD 50 (Rabbit): > 5,000 mg/kg

2-Propanone

LD 50 (Rabbit): > 7,426 mg/kg

Distillates (petroleum), hydrotreated light

LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s):

Benzene, methyl-

LC 50 (Rat): 28.1 mg/l LC 50: > 100 mg/l

Propane

LC 50: > 100 mg/l LC 50: > 100 mg/l

Butane

LC 50: > 100 mg/l LC 50: > 100 mg/l

2-Propanone

LC 50 (Rat): 50.1 mg/l LC 50: > 5 mg/l

Distillates (petroleum),

LC 50: > 5 mg/l

hydrotreated light

LC 50: > 20 mg/l

Repeated dose toxicity

Product:

No data available.

Specified substance(s):

Petrolatum

LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Oral, 2 yr): 5,000 mg/kg Oral Experimental

result, Key study

NOAEL (Rat(Female, Male), Oral, 2 yr): > 5,700 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study

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Benzene, methyl-

Propane

Butane

2-Propanone

NOAEL (Rat(Female, Male), Oral, 90 d): 1.5 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Oral, 90 d): 1,500 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l | nhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental

result, Key study

Distillates (petroleum), hydrotreated light

NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation

Experimental result, Key study

NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result,

Key study

Skin Corrosion/Irritation Product:

No data available.

Specified substance(s):

Petrolatum

in vivo (Rabbit): Not irritant Read-across from supporting substance

(structural analogue or surrogate), Key study

in vivo (Rabbit): Not irritant Read-across from supporting substance

(structural analogue or surrogate), Key study

Benzene, methyl-

in vivo (Rabbit): Irritating Experimental result, Key study

2-Propanone

in vivo (Rabbit): Not irritant Experimental result, Supporting study

Distillates (petroleum), hydrotreated light

in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product:

No data available.

Specified substance(s):

Petrolatum

Rabbit, 24 - 72 hrs: Not irritating Rabbit, 24 - 72 hrs: Not irritating Rabbit, 24 - 72 hrs: Not irritating

Benzene, methyl-

Rabbit, 24 - 72 hrs: Not irritating

2-Propanone

Irritating.

Rabbit, 24 hrs: Minimum grade of severe eye irritant

Distillates (petroleum), hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product:

No data available.

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Specified substance(s):

Petrolatum

Benzene, methyl-2-Propanone

Distillates (petroleum), hydrotreated light

Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity
Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US, National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:

No data available.

In vivo

Product:

No data available.

Reproductive toxicity

Product:

No data available.

Specified substance(s):

Benzene, methyl-

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity

Product:

Single Exposure
No data available.

Specified substance(s):

Benzene, methyl-2-Propanone

Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity

Product:

Repeated Exposure
No data available.

Specified substance(s):

Benzene, methyl-

Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product:

No data available.

Specified substance(s):

Benzene, methyl-Distillates (petroleum), hydrotreated light May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

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Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

Petrolatum

LL 50 (Pimephales promeias, 96 h): > 100 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Pimephales promeias, 96 h): >= 100 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LL 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l QSAR QSAR, Supporting

study

Benzene, methyl-

LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

Propane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Butane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

2-Propanone

LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key

study

Aquatic Invertebrates Product:

No data available.

Specified substance(s):

Petrolatum

NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LL 50 (Gammarus pulex, 96 h): > 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LL 50 (Daphnia magna, 48 h): > 1,000 mg/l QSAR QSAR, Supporting study LL 50 (Gammarus pulex, 24 h): > 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Benzene, methyl-

LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/ Mortality LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

Butane

LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

2-Propanone

LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

Petrolatum

NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

LL 50 (Oncorhynchus mykiss): > 1,000 mg/l QSAR QSAR, Supporting study

Benzene, methyl-

NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated light

NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study

Aquatic Invertebrates Product:

No data available,

Specified substance(s):

Petrolatum

NOAEL (Daphnia magna): 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study

Benzene, methyl-

LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result | Key study NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

2-Propanone

LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and Degradability

Biodegradation Product:

No data available.

Specified substance(s):

Petrolatum

31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study

Benzene, methyl-

100 % (14 d) Detected in water. Experimental result, Weight of Evidence study

86 % Detected in water. Experimental result, Weight of Evidence study

Propane

100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water, QSAR, Weight of Evidence study

Butane

100 % (385.5 h) Detected in water. Experimental result, Key study

2-Propanone

90.9 % (28 d) Detected in water. Experimental result, Key study

Distiliates (petroleum), hydrotreated light

61 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio Product:

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:

No data available.

Specified substance(s):

Benzene, methyl-

Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study

2-Propanone

Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aguatic sediment Experimental result, Not specified

Product:

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Petrolatum

No data available. No data available.

Benzene, methyl-

No data available.

Propane Butane

2-Propanone

No data available. No data available.

Distillates (petroleum), hydrotreated light

No data available.

levisio			

<u> </u>	Revision Date: 02/	03/2020
Other adverse effects:	Harmful to aquatic organisms.	
13. Disposal considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, laws.	state, or local
Contaminated Packaging:	No data available.	
14. Transport information		
DOT	\	
UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant: Environmental Hazards: Marine Pollutant Special precautions for user: IMDG UN Number: UN Proper Shipping Name:	UN 1950 Aerosols, flammable 2.1 II No No No No No No Aerosols, flammable	
Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group:	2 	
Environmental Hazards: Marine Pollutant Special precautions for user:	No No Not regulated.	
IATA UN Number: Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Environmental Hazards: Marine Pollutant	UN 1950 Aerosols, flammable 2.1 No No	
Special precautions for user:	Not regulated.	
15. Regulatory information		
US Federal Regulations Restrictions on use: Not know	vn.	
	l l	

Revision Date: 02/03/2020

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity		
Benzene, methyl-	lbs. 1000		
Propane	lbs. 100		
Butane	lbs. 100		
2-Propanone	lbs. 5000		

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

Flammable aerosol Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Toxic to reproduction

Specific Target Organ Toxicity - Single Exposure Specific Target Organ Toxicity - Repeated Exposure Aspiration Hazard

SARA 302 Extremely Hazardous Substance

Reportable Chemical Identity quantity

Threshold Planning Quantity

2-Propanone Distillates (petroleum), hydrotreated light

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity Benzene, methyllbs. 1000 Propane lbs. 100 Butane lbs, 100 2-Propanone lbs. 5000 Distillates (petroleum), hydrotreated light

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Petrolatum	10000 lbs
Benzene, methyl-	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
2-Propanone	10000 lbs
Distillates (petroleum), hydrotreated light	10000 lbs
Distillates (petroleum), hydrotreated heavy naphthenic	10000 lbs

SARA 313 (TRI Reporting)

	Reporting threshold	Reporting threshold for
Chemical Identity	for other users	manufacturing and processing
Benzene, methyl-	lbs	lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) **US State Regulations**

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Benzene, methyl-

Developmental toxin, 03 2008

Version: 1.0 Revision Date: 02/03/2020

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Petrolatum

Benzene, methyl-

Propane

Butane

2-Propanone

Distillates (petroleum), hydrotreated light

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Petrolatum

Benzene, methyl-

Propane

Butane

2-Propanone

Distillates (petroleum), hydrotreated light

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

2-Propanone

Distillates (petroleum), hydrotreated light

Stockholm convention

2-Propanone

Distillates (petroleum), hydrotreated light

Rotterdam convention

2-Propanone

Distillates (petroleum), hydrotreated light

Kyoto protocol

Revision Date: 02/03/2020

Inventory Status:

Australia AICS:

On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

Canada NDSL Inventory:

Not in compliance with the inventory.

Ontario Inventory:

Not in compliance with the inventory.

China Inv. Existing Chemical Substances:

On or in compliance with the inventory

Japan (ENCS) List:

Not in compliance with the inventory.

Japan ISHL Listing:

Not in compliance with the inventory.

Japan Pharmacopoeia Listing:

Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI):

On or in compliance with the inventory

Mexico INSQ:

Not in compliance with the inventory.

New Zealand Inventory of Chemicals:

Not in compliance with the inventory.

Philippines PICCS:

On or in compliance with the inventory

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory

US TSCA Inventory:

On or in compliance with the inventory

EINECS, ELINCS or NLP:

Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

Issue Date:

02/03/2020

Revision Information:

No data available.

Version #:

1.0

Further Information:

No data available.

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Skin:

Oral:

Novagard SolutionsTM SAFETY DATA SHEET

SECTION 1- CH	EMICAL PRO	DUCT AND COMPA	ANY IDENTIFI	CATION	<u> </u>
1.1 PRODUCT NAME:	ļ	RTV 100 Series			
1.2 GENERIC DESCRIPTION	N:	Silicone sealant/adhesive compound			
1.3 MANUFACTURED BY:		Novagard Solutions TM 5109 Hamilton Avenue Cleveland, OH 44114 216-881-8111			
1.4 COMPANY WEB SITE:		www.novagard.com			
1.5 EMERGENCY PHONE	NE NUMBER: CHEMTREC 800-424-9300 (24 hour)				1
1.6 EMAIL ADDRESS: tech	solutions@nov	agard.net			
	ECTION 2 – I	IAZARD IDENTIFIC	CATION		
2.1 CLASSIFICATION OF This product is not hazardous:		HA/GHS standards.			
This product is not hazardous according to COM a C110 standards.					
2.2 LABELING ELEMENT	S				
None Required					
SECTION 3	COMPOSITION	ON/INFORMATIO	N ON INGRED	ENTS	
3.1 ACCORDING TO EU D	IRECTIVES 6	7/548/EEC AND 199	9/45/EC and (E	C) 1272/2	008
COMPONENT	CAS No.	WT %	EINECS NUMBER	'1	ACH TRATION
Silica, amorphous	686	11-44-9 0-15	271-893-4	<u> </u>	Yes
		•			
	SECTION 4	- FIRST AID MEAS	URES	ļ	
44 PROGRAMME	OT A TT & ST ! !				
4.1 DESCRIPTION OF FIR	ST AID MEAS	SURES		}	
Eye: Contact with the		temporary irritation.			ounts of

water for a minimum of 15 minutes. If chronic irritation develops contact a physician. Contact with skin may cause irritation. Wash contacted areas with soap and water.

medical attention. Never give anything by mouth to an unconscious person.

If ingested do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

Novagard SolutionsTM SAFETY DATA SHEET

SECTION 5 - FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Water, CO2, Dry Chemical, Foam.

5.2 SPECIAL FIRE FIGHTING PROCEDURES

None

5.3 HAZARDOUS DECOMPOSITION PRODUCTS

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300° F and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Disposal of collected product, residues and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Scrape up and contain for salvage or disposal. Wash all walking surfaces with detergent and water to reduce slipping hazard. Observe all personal and protection equipment recommendations described in Section 5 and 8. Local, state and federal reporting requirements may apply to spills or releases of this matter into the environment. See regulatory compliance information in Section 15.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS Keep container closed when not in use. Avoid contact with skin and eyes.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Local exhaust: Recommended

General ventilation: Recommended

Eyewash stations: Recommended

8.2 PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

Eve Protection:

Use proper protection - safety glasses as a minimum

Skin Protection:

Wash after any contact. Chemical protective gloves are recommended

Respiratory

Not required for properly ventilated areas. If high levels of vapor or mist should

Protection:

accumulate, use NIOSH approved respirator with organic vapor cartridge

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.3 Comments

Provide ventilation during use to control exposure within guidelines (see Section 2) or use respiratory protection. Product evolves alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 guidelines. Respiratory protection should be considered for exposures resulting from unusual tasks and/or use in non-ventilated areas.

Novagard SolutionsTM SAFETY DATA SHEET

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:

NA

Flammability Limits in Air

Upper - Not Determined

Physical form

Hazy liquid

Odor:

vinegar smell

Specific Gravity @25°C: Boiling Point (@ 760 mm Hg) 1.00

Freezing/melting point

Not applicable Not applicable Not applicable

Vapor pressure: Evaporation rate: Volatile content: Odor threshold

Not applicable Not applicable Not applicable

VOC (EPA method 24):

<25 gm/l

Percent Volatile by volume:

Lower - Not Determined

<0.5%

Solubility in water:

< 1.0%

Solubility in organic solvent:

Mineral spirits

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:

Stable

Hazardous polymerization: Conditions to avoid: Materials to avoid: Will not occur None known None known

Conditions to avoid:

None known

Hazardous thermal decomposition

and combustion by-products:

Carbon monoxide, carbon dioxide, silicon dioxide, and

formaldehyde

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY

On Contact Eye:

May irritate eyes

On Contact with Skin:

May cause mild skin irritation

On Inhalation:

Oral:

Not anticipated during industrial use Not anticipated during industrial use

SECTION 11 - TOXICOLOGICAL INFORMATION (continued)

11.2 CRONIC TOXICITY

Carcinogens:

This product does not contain any ingredients listed by IARC, NTP or OSHA

as chemical carcinogens.

Teratogens: Mutagens:

None known None known

Reproductive Toxins:

None known

Novagard SolutionsTM SAFETY DATA SHEET

SECTION 12 - ECOLOGICAL INFORMATION

12.1 ECOTOXICITY EFFECTS

Mixture is toxic to aquatic organisms.

12.2 PERSISTANCE AND DEGRADABILITY

Solid material that is insoluble in water. The products of degradation are less toxic than the product itself.

12.3 BIOACCUMULATION

No bioaccumulation data is available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal method: Disposal should be made in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Not Regulated for domestic transport

DOT shipping name:

None None DOT hazard class: UN/NA number:

None

DOT labels:

None

European Class: RID (OCTI), ADR (ECE), RAR(IATA) Not Regulated

SECTION 15 - REGULATORY INFORMATION

15.1 INVENTORY STATUS

All chemical substances found in this product comply with the (TSCA) reporting requirements

All chemical components found in this product are listed, exempt or notified via EINECS (ELINCS)

AICS: All components listed, exempt or notified

DSL: All components listed, exempt or notified

Novagard SolutionsTM SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION (continued)

15.2 EPA SARA Title III Chemical Listings:

40 CFR 355 Section 302

Extremely Hazardous Substance List:

Section 312, 311 Hazard Class:

40 CFR 372.65 Section 313 Toxic Chemical List:

None found

None

None found

Hazard Rating System:

HMIS: Flammability 1, Reactivity 0, Health 0 NFAPA: Flammability 1, Reactivity 0, Health 0

California Proposition 65:

None

SECTION 16 - OTHER INFORMATION

REVISED: 02-04-2016

The information presented in this Safety Data Sheet relates only to the specific product designated herein, and no warranty, or guarantee, either expressed or implied is made regarding the performance and conditions of this product. This information is based upon information that Novagard believes to be true and accurate; however, it is the responsibility of each user to review this information within the specific context of their intended application.

Printing date 08/24/2023

Reviewed on 08/24/2023

dentification :

- · Product identifier
- Trade name: Novaflex MultiPurpose Series
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: **Novagard Solutions Inc** 5109 Hamilton Avenue CLEVELAND, OH 44114 USA
- · Information department: R&D Department
- · Emergency telephone number: CHEMTREC 1-800-424-9300 (USA)

+1 703-741-5970 (International)

20 Exercis (S) (Cantille Non

· Classification of the substance or mixture



GHS08 Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



GHS09 Environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS08 GHS09

- · Signal word Warning
- · Hazard-determining components of labeling:

octamethylcyclotetrasiloxane

· Hazard statements

Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment,

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Collect spillage.

Store locked up.

(Contd. on page 2)

Printing date 08/24/2023

Reviewed on 08/24/2023

Trade name: Novaflex MultiPurpose Series	
Dispose of contents/container in accordance with local/regional/national/international regionals regionals (scale 0 - 4)	(Contd. of page 1) ulations.
Health = 1 Fire = 1 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 1 Health = 1 FIRE [1] Fire = 1 REACTIVITY 0 Reactivity = 0	
· Other hazards · Results of PBT and vPvB assessment	}
· PBT:	
556-67-2 octamethylcyclotetrasiloxane	
· vPvB:	
556-67-2 octamethylcyclotetrasiloxane	
V PPONDENCE CONTRACTOR	
Seampestion/informetion on ingredients	No. of the last
· Chemical characterization: Mixture	
Description: Mixture of the substances listed below with nonhazardous additions.	
Dangerous components: 22984-54-9 butan-2-one O,O',O''-(methylsilylidyne)trioxime	
556-67-2 octamethylcyclotetrasiloxane	0-5%
	0.04-0.3%
Allisticum estics - A - A - A - A - A - A - A - A - A -	Mh 13/12 Essentiation of
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	A STATE OF THE PARTY OF THE PAR
· Description of first aid measures	
 After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. 	
· After eye contact: Rinse opened eye for several minutes under running water.	
· After swallowing: If symptoms persist consult doctor. · Information for doctor:	
· Most important symptoms and effects, both acute and delayed	
No further relevant information available.	
· Indication of any immediate medical attention and special treatment needed No further relevant information available.	
	A-146 24 24 24 24 25 1
	公理的证据是一个
Extinguishing media Suitable extinguishing agents: Use fire fighting measures that suit the environment.	j
· Special hazards arising from the substance or mixture No further relevant informatio	available.
	(Contd. on page 3)

Printing date 08/24/2023 Reviewed on 08/24/2023 Trade name: Novaflex MultiPurpose Series (Contd. of page 2) · Advice for firefighters · Protective equipment: No special measures required. . 6 Accidental release measures · Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7/Lencing soccessors · Handling: · Precautions for safe handling Open and handle receptacle with care. · Information about protection against explosions and fires: Keep respiratory protective device available. · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. · Specific end use(s) No further relevant information available. 28 Exposite controls/personal profections · Additional information about design of technical systems: No further data; see item 7. Control parameters · Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEU, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. 556-67-2 octamethylcyclotetrasiloxane WEEL Long-term value: 10* ppm *OARS WEEL · Additional information: The lists that were valid during the creation were used as basis. · Exposure controls Product evolves methyl ethyl ketone (MEKO) when exposed to water or humid air. Provide ventilation during use. · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

(Contd. on page 4)

Printing date 08/24/2023

Reviewed on 08/24/2023

(Contd. of page 3)

Trade name:	Novaflex	MultiPurpo	se Series
-------------	----------	------------	-----------

Store protective clothing separately.

Breathing equipment: Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

9 Physical and chemical prope	erties	-
Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold:		
· pH-value:	Not applicable.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazar	-
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
Density: Relative density Vapor density	Not determined. Not determined. Not applicable.	
		(Contd. on page 5

Printing date 08/24/2023

Reviewed on 08/24/2023

(Contd. on page 6)

ade name: Novaflex MultiPur	pose Series	
		(Contd. of page 4
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with Water:	n Insoluble.	
Partition coefficient (n-octar	nol/water): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
Solvent content: VOC content:	0.00 %	
· Other information	No further relevant information available.	

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Carbon monoxide, carbon dioxide, silicon dioxide and formaldehyde may be formed during combustion.

III Toxicological informat	long and the same of the same
 Information on toxicological Acute toxicity: 	al effects
· LD/LC50 values that are rel	evant for classification:
Oral LD50 >2,000 mg/kg (ra	it)
 Primary irritant effect: on the skin: May cause skin on the eye: No irritating effect Sensitization: No sensitizing Additional toxicological information The product shows the follow preparations: Carcinogenic categories 	et. effects known.
· IARC (International Agency	for Research on Cancer)
None of the ingredients is list	ed.
· NTP (National Toxicology F	rogram)
None of the ingredients is list	ed.
· OSHA-Ca (Occupational Sa	fety & Health Administration)
None of the ingredients is list	ed.

_	Printing date 08/24/2023	Reviewed	on 08/24/2023
	Trade name: Novaflex MultiPu	urpose Series	
_			(Contd. of page 5)
*	12 Ecological Informatio		
	 Persistence and degradate Behavior in environmenta Bioaccumulative potentia Mobility in soil No further response Ecotoxical effects: Remark: Toxic for fish Additional ecological info General notes: Do not allow product to reac 	I No further relevant information available. relevant information available. rmation: ch ground water, water course or sewage system, even in small even extremely small quantities leak into the ground. plankton in water bodies.	all quantities.
ı	· PBT:		
	556-67-2 octamethylcyclote	etrasiloxane	
	· vPvB:		
	556-67-2 octamethylcyclote	Manadayana -	
	L	further relevant information available.	
L		further relevant information available.	
Γ			
*	18 Disposal consideration		
	system.	ogether with household garbage. Do not allow product to	reach sewage
	Uncleaned packagings: Recommendation: Dispose	al must be made according to official regulations.	
Г			
*	A Tenspoid Information	The state of the s	
	· UN-Number · DOT · IMDG, IATA	not regulated UN3077	
	· UN proper shipping name · DOT · IMDG	not regulated ENVIRONMENTALLY HAZARDOUS S SOLID, N.O.S. (octamethylcyclote	trasiloxane,
	· IATA	dibutyltin dilaurate), MARINE POLLUTAN ENVIRONMENTALLY HAZARDOUS S SOLID, N.O.S. (octamethylcyclote dibutyltin dilaurate)	SUBSTANCE,

(Contd. on page 7)

Printing date 08/24/2023

Reviewed on 08/24/2023

	Trade name: Novaflex MultiPu	rpose Series		
				(Contd. of page 6)
	Transport hazard class(es)		
	·DOT			
	Class		not regulated	
	· IMDG, IATA			
	Class Label		9 Miscellaneous dangerous substances 9	and articles
	· Packing group · DOT · IMDG, IATA		not regulated	
	Environmental hazards: Marine pollutant: Special marking (IATA):		Symbol (fish and tree) Symbol (fish and tree)	
	· Special precautions for us		Warning: Miscellaneous dangerous su articles	ibstances and
	Hazard identification numl EMS Number:	ber (Kemier code):		1
į	Stowage Category		F-A,S-F A	
	- Stowage Code		SW23 When transported in BK3 bulk 7.6.2.12 and 7.7.3.9.	container, see
	Transport in bulk according MARPOL73/78 and the IBC		Not applicable.	
	Transport/Additional infor	mation:		
	IMDG Limited quantities (LQ) Excepted quantities (EQ)		5 kg Code: E1 Maximum net quantity per inner packagi Maximum net quantity per outer packagi	
	· UN "Model Regulation":		UN 3077 ENVIRONMENTALLY H SUBSTANCE, SOLID (OCTAMETHYLCYCLOTETRAS DIBUTYLTIN DILAURATE), 9, III	N.O.S.
_				

Safety, health and en No further relevant info Sara	vironmental regulations/legislation specific for the rmation available.	he substance or mixture
Section 355 (extreme	y hazardous substances):	
None of the ingredients	s is listed.	
Section 313 (Specific	toxic chemical listings):	
None of the ingredients	is listed.	

Trade name: Novaflex MultiPurpose Series (Contd. of page 7) TSCA (Toxic Substances Control Act): All components have the value ACTIVE. · Hazardous Air Pollutants None of the ingredients is listed. · Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 77-58-7 dibutyltin dilaurate Α4 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS08 GHS09 · Signal word Warning · Hazard-determining components of labeling: octamethylcyclotetrasiloxane Hazard statements Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects. Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing date 08/24/2023

Reviewed on 08/24/2023

Trade name: Novaflex MultiPurpose Series

(Contd. of page 8)

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Regulatory Compliance Department

· Contact: novagard@novagard.net

Date of preparation / last revision 08/24/2023

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Toxic to Reproduction 2: Reproductive toxicity - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* Data compared to the previous version altered.





Nuflex® 311-RV

SECTION 1. IDENTIFICATION

Product Identifier

Nuflex® 311-RV

Other Means of

Silicone Joint Sealant

Identification

Silicone sealant for weather sealing recreational vehicles.

Recommended Use Restrictions on Use

None known.

Manufacturer

NUCO Inc., 150 Curtis Dr., Guelph, Ontario, N1K 1N5, Canada, (519) 823 4994,

www.sealantcentre.com

Emergency Phone No. ChemTel Chemical Expert Assistance Hotline, 1-800-255-3924

Date of Preparation

May 08, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Label Elements

Skin irritation - Category 2; Eye irritation - Category 2B; Skin sensitization - Category 1B; Carcinogenicity - Category 2





anal Word: Warning

Hazard Statement(s): Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. Suspected of causing cancer.

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of water.

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01 of 08 If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice or attention.

Storage:

ore locked up.

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

None known,

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:						T/ 2 (1) (1)
Chemica	al Name	C	AS No.		%	Other Identifi

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Calcium carbonate	1317-65-3	15.0-40.0	Limestone	
2-Butanone, O,O',O'- (methylsilylidyne)trioxime	22984-54-9	3.0-7.0	Methyl tri (methylethylketoxi me)silane	
Silica 2482, hydrophobic	7631-86-9	3.0-7.0	Amorphous Silica	
Carbon black	1333-86-4	0.1-1.0	Carbon Black	
Titanium dioxide	13463-67-7	0.1-1.0	Titanium (IV) oxide	

CTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

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Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

ECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation. Review Section 10 (Stability and Reactivity) for additional information.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

nall spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Contaminated sorbent poses the same hazard as the spilled product.

Large spills or leaks: dike spilled product to prevent runoff. Dike and recover contaminated water for appropriate disposal.

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Review Section 13 (Disposal Considerations) of this safety data sheet.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent uncontrolled release of product. Avoid repeated or prolonged skin contact. Do not get in eyes.

Conditions for Safe Storage

Store in an area that is: well-ventilated, cool, dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGI	ACGIH TLV® OSHA PEL		ACGIH TLV® OSHA PEL AIHA		WEEL.	
Chemical Name	TWA	STEL	TWA	Ceiling	8-h	r TWA	TWA
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	10 ppm	Not established	Not established	Not established	10 p		Not established

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Silica 2482, hydrophobic	Not eştablished	Not established	10 mg/m3	Not established	Not establi	shed	Not established
Calcium carbonate	Not established	Not established	15 mg/m3	Not established	Not establi		Not established
Carbon black	3 mg/m3 A3	Not established	3.5 mg/m3	Not established	Not establ	shed	Not established
lanium dioxide	10 mg/m3 A4	Not established	15 mg/m3	Not established	Not establi	shed	Not established

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: neoprene rubber, nitrile rubber, Silver Shield®.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance viscous paste. Particle Size: Not available

Odour Aromatic

Odour Threshold Not available

pН Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Boiling Range Not available ish Point Not applicable __aporation Rate Not available

Flammability (solid, gas) Not applicable (liquid).

Upper/Lower Flammability or Not available (upper); Not available (lower) **Explosive Limit**

Vapour Pressure < 1 kPa

Vapour Density (air = 1)

Relative Density (water = 1) 1.12 at 25 °C (77 °F)

Solubility Not available in water; Not available (in other liquids)

Partition Coefficient, n-Not available Octanol/Water (Log Kow)

Auto-ignition Temperature Not available **Decomposition Temperature** Not available

Viscosity Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State Liquid

Volatile Organic Content 28 g/L, <3% w/w (CARB Method 310)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

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Not reactive under normal conditions of use. Chemical Stability Normally stable. Possibility of Hazardous Reactions Mone expected under normal conditions of storage and use. ecomposes in the presence of heat.

neacts in the presence of oxidizing agents.

Conditions to Avoid

High temperatures. Water, moisture or humidity. Incompatible materials.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Strong acids (e.g. hydrochloric acid),

Strong bases (e.g. sodium hydroxide).

Hazardous Decomposition Products

Very toxic, flammable formaldehyde, silicon oxides calcium oxides; metal oxides, silicon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

Chemical Name	LC50	LD50 (orai)	LD50 (de	rmal)
2-Butanone, O,O',O"- (methylsilylidyne)trioxime		2463 mg/kg (rat)	> 2000 r	ng/kg (rat)
Silica 2482, hydrophobic	> 2.08 mg/L (rat) (dust)	> 3300 mg/kg (rat)	> 5000 r	ng/kg (rabbit)
Calcium carbonate		> 6450 mg/kg (rat)		<u> </u>
arbon black	6750 mg/L (rat) (4-hour exposure)			
Titanium dioxide	> 6820 mg/kg (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000	mg/kg (rabbit)

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause very mild irritation based on information for closely related chemicals.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. May cause an allergic reaction (skin sensitization) based on information for

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closely related chemicals.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Butanone, O,O',O"- nethylsilylidyne)trioxime	Not Listed	Not designated	Not Listed	Not Listed
lica 2482, hydrophobic	Group 3	Not Listed	Not Listed	Not Listed
Calcium carbonate	Not Listed	Not designated	Not Listed	Not Listed
Carbon black	Group 2B	A3	Not Listed	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed

May cause cancer based on animal studies. Has been associated with: liver cancer.

Key to Abbreviations

IARC = International Agency for Research on Cancer.

Group 3 = Not classifiable as to its carcinogenicity to humans. Group 2B = Possibly carcinogenic to humans.

ACGIH® = American Conference of Governmental Industrial Hygienists.

A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 F	ish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	mykiss	hynchus (rainbow 6-hour; fresh	> 120 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)	(Pseudokirchneriella	
Carbon black	> 1000 hour)	mg/L (96-	> 5600 mg/L (Daphnia magna (water flea))		> 10000 mg/L (Desmodesmus subspicatus (algae); 72-hour; fresh water; static)
Titanium dioxide		hales	3 mg/L (Daphnia magna (water flea); fresh water; static)		36 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour; fresh water; static)

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Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
	>= 100 mg/L (Oncorhynchus mykiss (rainbow trout); 21-day; fresh water; flow-through)		>= 100 mg/L (Daphnia magna (water flea); 21-day; fresh water; semi- static)	

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

Treat waste in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

∖ivironmental

zards

Not applicable

Special Precautions

Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 311/312: Acute Health Hazard Chronic Health Hazard

SARA Title III - Section 313: Not applicable.

Pennsylvania Right To Know:

Dimethyl siloxane, hydroxy terminated

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Silicon dioxide Calcium Carbonate Methyl tri(methylethylketoxime)silane Carbon Black Titanium Dioxide New Jersey Right To Know: Dimethyl siloxane, hydroxy terminated

Silicon dioxide

Methyl tri(methylethylketoxime)silane

Calcium Carbonate Carbon Black Titanium Dioxide

California Proposition 65: Not applicable.

SECTION 16. OTHER INFORMATION

NFPA Rating

Flammability - 1

Instability - 0

SDS Prepared By

Technical Services Department

Phone No.

(519) 823-4994

Date of Preparation Date of Last Revision

May 08, 2017 February 05, 2021

Revision Indicators

Revision 3

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systemes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational

Health and Safety (CCOHS).

Disclaimer

The information herein is given in good faith, but no warranty, express or implied, is made. Product users should make independent judgements of the suitability of this information to

ensure proper use and to protect the health and safety of employees.

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Meguiar's USA 17991 Mitchell South Irvine, CA 92614 Tel: 949-752-8000

Fax: 949-752-5784

In case of emergency or spill, contact CHEMTREC at 800-424-9300

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: M71 - Marine Canvas Cleaner

Print date: 08/24/2005

Reference Number: TBD

Prepared Date: 07/27/2005

Use of the Substance/Preparation

Recommended use:

All-purpose cleaner.

Company/Undertaking Identification

Meguiar's Holland

Laan der Verenigde Naties 40

33174 DA Dordrecht

Holland

Tel: 31-78-6210268

Meguiar's Hong Kong

Suite 6-7, 20/F Marina House 79 avenue Edouard Vaillant

68 Hing Man Street

Shaukeiwan

Hong Kong

Tei: 852-2967-0202

Meguiar's France

92100 BOULOGNE

France

Tel: 33-1-46-10-47-81

Meguiar's UK Ltd.

14 Cottesbrooke Park

Heartlands

Daventry NN11 5YL Tel: 0870 241 6696 Fax: 01327 300 116

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	% Weight	OSHA PEL TWA	EINECS No.	Classification
Linear Primary Alcohol Ethoxylate	68439-46-3	2-10	None		Xn; R22
Sodium Metasilicate	6834-92-0	1-5	None	229-912-9	C;R34 Xi;R37
EDTA	64-02-8	<1	None	200-573-9	Xi; R36/37/38
Sodium Carbonate	497-19-8	5-10	None	207-838-8	Xi;R36

3. HAZARDS IDENTIFICATION

Most important hazards:

Causes eye irritation. This product contains chemicals listed on Canada WHMIS.

See Section 15.

4. FIRST AID MEASURES

General Advice:

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation:

Prolonged or intentional exposure to high concentrations may cause respiratory track

irritation. Move to fresh air. If symptoms persist, call a physician

Skin contact:

Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

ye contact:

In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Ingestion:

Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

NFPA:

Health: 2

Flammability: 0

Reactivity: 0

Suitable extinguishing media:

Use dry chemical, CO2, water spray or alcohol-resistant foam.

Specific hazards:

Not applicable

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Extinguishing media which must not be used for safety reasons:

Not applicable

Specific methods:

Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental precautions:

Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Not applicable.

Safe handling advice:

None under normal processing

Storage:

Store at room temperature in the original container. Do not freeze.

Incompatible products:

Do not store together with acids or oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION Engineering measures to reduce Not applicable. exposure: Pespiratory protection: Do not breathe dust or spray mist. درنا and body protection: Not applicable. Eye protection: Avoid contact with eyes. Safety glasses with side-shields Hand protection: Protective gloves 9. PHYSICAL AND CHEMICAL PROPERTIES General Information Appearance: Liquid Physical state: Liquid Color: Clear Green Odor: Pleasant Important Health Safety and Environmental Information pH @70° F: 12.5 Flash point: >200 (°F), 93 (°C) Method: PMCC-ASTM D93-90 Boiling point/range: 212 (°F), 100 (°C) Water Solubility: Soluble Vapor density: H2'O **Evaporation rate:** H₂O **VOC content:** Nil Specific gravity: 1.03 10. STABILITY AND REACTIVITY Stability: Stable under recommended storage conditions. Polymerization: None under normal processing. Conditions to avoid: Extremes of temperature and direct sunlight Materials to avoid: Strong acids and oxidizing agents. Heating in air.. Hazardous decomposition products: Not determined 11. TOXICOLOGICAL INFORMATION Component Information Additional Information: The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. 12. ECOLOGICAL INFORMATION otoxicity Page 3/5

	1				1
Product Information					
Aquatic toxicity: N	o informat	ion available			
0					
Component Information					
Ecotoxicity effects:	ie produc	t has no known oo	o-toxicological effects.		
Locionity checks.	iis produc	t has no known ec	o-toxicological effects.		
113	DISPO	OSAL CONST	DERATIONS		
			22101110110		a
Wasta from raciduse / unused					
Waste from residues / unused produ	icts:				
Waste disposal must be in accordance	wim appr	opriate Federal, St	ate, and local regulation	s. This p	roduct, if unaltered by
use, may be disposed of by treatment a authority.	aga permi	tted facility or as ac	ivised by your local haza	ardous w	aste regulatory
addionty.					
Contaminated packaging:					
Disposal must be made according to lo	cal and fe	derai regulations.			
		3			
Ewc waste disposal no:					
Not applicable	1				
Further information				ļ	
According to the European Waste Cata	Joque M/	esta Codas ara not	product epocific but on	nlication	anacifie
resoluting to the European Waste Oate	logue, vv.	asie codes ale noi	product specific, but ap	plication	specific
1/	TRAN	JCDOD'T INIE	ORMATION	<u> </u>	<u>. </u>
	i TICAT	131 OKI INE	OKWATION		
0. 17				ĺ	
General Transportation Statement			s product does not requi	re classi	fication by DOT, IATA,
		ICA	O or IMDG.		
-					
l s				1	
Other information:					
The description shown may not apply to	l all shinn	ing situations. Con-	sult 49CFR or appropria	ate Dana	erous Goods
Regulations, for additional description r	equireme	nts and mode-spec	rific or quantity-specific s	tie Dang	requirements
J ,		no una modo opoc	and or quartity opcomo c	, iippii ig	requirements.
15	REGI	I ATORY INI	FORMATION		:- - ,
15,	٥٠٠٠	THE TAXABLE TAXA	COMMITTOIL		
Commondo	<u>. </u>	7004	DOI (1120)		
Components Linear Primary Alcohol Ethoxylate 68439-46-3		TSCA XU	DSL/NDSL Present	Canada	a - WHMIS Classification
Sodium Metasilicate 6834-92-0		XU XU	Present	 	
EDTA 64-02-8		Present	Present	 	D2B
Sodium Carbonate 497-19-8		XU	Present		D1B; E

CERCLA/SARA 313 Emission report	nq
None	

16. OTHER INFORMATION

Prepared by:

Literary reference: None

isclaimer:

Health & Safety

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

End of Safety Data Sheet

Safety Data Sheet Lucas

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/10/2015

Revision date: 10/19/2015

Supersedes: 08/10/2015

Version: 2.0



CTION 1: Identification of the substance/mixture and of the company/undertaking

Identification 1.1.

Product form

Mixture

Product name

Lucas Slick Mist Interior Detailer

Product code

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Cleaning and protecting agent.

Details of the supplier of the safety data sheet

Lucas Oil Products, Inc. 302 North Sheridan Street Corona, California 92880-2067 - USA T (951) 270-0154 F (951) 270-1902 GHewqill@lucasoil.com www.LucasOil.com

1.4. **Emergency telephone number**

Emergency number

(951) 493-1149 (951) 847-5949 7:00 A.M. to 5:00 P.M. Monday thru Friday

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Classification (GHS-U\$)

Skin Sens. 1 H317 - May cause an allergic skin reaction

Full text of H-phrases; see section 16

2.2. Label elements

#S-US labeling

್ಷಾ<mark>ತಿzard pictograms (GHS-US)</mark>



GHS07

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Warning

H317 - May cause an allergic skin reaction

P261 - Avoid breathing mist, spray

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear eye protection, protective gloves P302+P352 - If on skin: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards

Other hazards not contributing to the

classification

Harmful to aquatic life with long lasting effects.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

10/19/2015 EN (English US) SDS ID: Lucas SIMIntDet Page 1

Lucas Slick Mist Interior Detailer Safety Data Sheet

according to Federal Register / Vol	. 77. No. 58 / Monday, Ma	arch 26, 2012 / Rules and Regulations

2.0 5514					
3.2. Mixture		· • · · · · · · · · · · · · · · · · · ·	T		
lame	,	Product identifier	%		tion (GHS-US)
∘is(1,2,2,6,6-pentamethyl-4-piperi	dyl) sebacate	(CAS No) 41556-26-7	<1	Flam. Liq. 4, Skin Sens. 1 Aquatic Acut Aquatic Chro	I, H317 te 1, H400
Full text of H-phrases: see sect	ion 16				
SECTION 4: First aid me	easures	· · · · · · · · · · · · · · · · · · ·			
4.1. Description of first a	aid measures				
First-aid measures after inhalat	ion Re	move person to fresh air and keep	comfortable for breathi	ing.	
First-aid measures after skin co	ontact Wa	ish skin with plenty of water. Take o	off contaminated clothic	ng. If skin irnit:	ation or rash occurs:
First-aid measures after eye co	ntact Rin	t medical advice/attention. se cautiously with water for severa	l minutes. Remove cor	ntact lenses, if	f present and easy to
First-aid measures after ingesti		Continue rinsing. If eye irritation per Il a poison center/doctor/physician i		.vice/attention.	•
•	iptoms and effects, bot		, you loci dilweil,	ļ	
Symptoms/injuries after skin co	*	y cause and delayed y cause an allergic skin reaction.			
•		•			
		tion and special treatment neede symptoms of distress in the patient.			
·		Symptoms of distress in the patient.	·		
SECTION 5: Firefighting			<u> </u>		
5.1. Extinguishing media					_
Suitable extinguishing media		e extinguishing media appropriate f rbon dioxide.	or surrounding fire, Wa	ater spray. Þry	/ powder, Foam.
Unsuitable extinguishing media	1	ne known.			
	sing from the substanc				
ອ.z. Special nazards ans ື⊚activity	_	e or mixture e product is non-reactive under non	mal conditions of use	storage and to	ranenort
Advice for firefighte	İ	- P. 224-0. IO II DIG GOOME MINE! (IOII	inal conditions of use,	otorage and II	апороть.
Protection during firefighting	: Do	not attempt to take action without sparatus. Complete protective clothing	suitable protective equi	ipment. Self-c	ontained breathing
SECTION 6: Accidental	release measures	<u> </u>			
6.1. Personal precaution	ns, protective equipme	nt and emergency procedures			
6.1.1. For non-emergency	personnel				
Emergency procedures	•	ntilate spillage area. Avoid contact v	with skin and eves. Av	oid breathing	mist, sprav.
- •		. •			
6.1.2. For emergency resp Protective equipment	l l	not attends to take action without	uitable protestive s		-4h1-6
Larconae ednibilieur	ref	not attempt to take action without ser to section 8: "Exposure controls/	personal protection".	pinent. For fu	inter intomination
6.2. Environmental prec			•		
Avoid release to the environme				1	
	ial for containment and	l cleaning up			
Methods for cleaning up		ke up liquid spill into absorbent mat	erial		
Other information		pose of materials or solid residues			
6.4. Reference to other s		,			
For further information refer to				}	
SECTION 7: Handling a					
7.1. Precautions for safe	· I				
Precautions for safe handling		sure good ventilation of the work sta st, spray.	ation. Avoid contact wi	th skin and ey	es. Avoid breathing
	""	· ·	use. Contaminated wo	ork clothina sh	ould not be allowed
· ·	l : Ws	ish contaminaten cintninn nemae re		AN OPERING SH	DAMA HOLDS WHOMED
Hygiene measures	out	ash contaminated clothing before re tof the workplace. Do not eat, drink	or smoke when using	this product,	Always wash hands
· ·	out	ish contaminated clothing before re of the workplace. Do not eat, drink or handling the product.	or smoke when using	this product.	Always wash hands
· ·	out	of the workplace. Do not eat, drink	or smoke when using	this product.	Always wash hands

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2. Conditions for safe storage, including any incompatibilities

 Keep container closed when not in use. Keep only in original container.

None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Hand protection

In case of repeated or prolonged contact wear gloves, nitrile rubber gloves. Glove thickness is

minimum 4 mm.

Environmental exposure controls

Avoid release to the environment,

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Color

Odor

Odor

Odor threshold

Odor threshold

pH

Melting point

Freezing point Boiling point

Flash point

\aliantial lative evaporation rate (butyl acetate=1)

⊯mmability (solid, gas)

Explosive limits
Explosive properties

Oxidizing properties Vapor pressure

Relative density

Relative vapor density at 20 °C

Solubility Log Pow

Log Pow
Auto-ignition temperature

Viscosity

9.2.

Viscosity, kinematic Viscosity, dynamic

Decomposition temperature

d : No data available

: 7-8

Liquid

Colorless

odorless

Not applicable

0 °C

: 100 °C : > 100 °C

: No data available

: No data available : No data available

: No data available: No data available

: No data available: No data available

No data availableMaterial is mostly water.

No data availableNo data available

: No data available: No data available

: No data available : No data available

No additional information available SECTION 10: Stability and reactivity

Other information

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

b dangerous reactions known under normal conditions of use.

75.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10/19/2015 EN (English US)

SDS ID: Lucas SIMIntDet

Lucas Slick Mist Interio Safety Data Sheet	Detailer		
according to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regul	ations	
10.5. Incompatible materials) additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, haz	ardous decomposition product	s should not be produced	
<u> </u>		3 should not be produced.	
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Likely routes of exposure	: Dermal		
Acute toxicity	: Not classified		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebaca			
LD50 oral rat	2369 (2369 - 3920) mg/kg		
ATE US (oral)	2369,000 mg/kg bodyweigl	nt	
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
Respiratory or skin sensitization	May cause an allergic skin	reaction.	
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
Specific target organ toxicity (single exposure)	Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified	•	
Aspiration hazard	Not classified		
Symptoms/injuries after skin contact	: May cause an allergic skin	reaction.	
SECTION 12: Ecological information			
.1. Toxicity Ecology - general	: Harmful to aquatic life with	long lasting effects.	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebaca	0.97 mg/l 96 h	· · · · · · · · · · · · · · · · · · ·	
EC50 Daphnia 1	20 mg/l 24 h		
LOSO Dapinia 1	20 mg/r 24 fr		
12.2. Persistence and degradability			
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebaca			
Biodegradation	38 % 28 d		
12.3. Bioaccumulative potential			
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebac	te (41556-26-7)		
Log Pow	0.37		
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
Effect on ozone layer	: None known		
•			
Effect on the global warming	: None known	,	
SECTION 13: Disposal consideration	s		<u> </u>
		· ·	
4ste treatment methods	: Dispose in a safe manner	in accordance with local/national regulations	
10/19/2015	EN (English US)	SDS ID: Lucas SIMIntDet	4/6

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	<u> </u>		<u> </u>			
SECTION 14:	Transport information					
partment of Tr	ansportation (DOT)			-		
In accordance with						
	iangerous good for transport r	egulations				
TDG	• • •					
No additional infor	mation available					
Transport by sea						
No additional infor	mation available					
Air transport						
No additional infor	mation available					
	N .					
SECTION 15:	Regulatory information	1				
15.1. US Federal	regulations				-	
bis(1,2,2,6,6-per	ntamethyl-4-piperidyl) sebac	ate (41556-26-7)			· 1	
	ited States TSCA (Toxic Subs		ory		, , , , ,	
45.2 Internations	dd-ti-m-		 -			
15.2. International CANADA	ii regulations					
	ntamethyl-4-piperidyl) sebac	ate (41556-26-7)		÷	-	
	nadian DSL (Domestic Sustan			-		
EU-Regulations	`					
No additional infor	mation available					
itional regulation	nns					
·	ntamethyl-4-piperidyl) sebac	141 (41 556-26-7)		 		
	(Philippines Inventory of Che		stances)			
Listed on NZIoC	(New Zealand Inventory of Ch	remicals)	, , , , , , , , , , , , , , , , , , ,			
Listed on the AlC	CS (Australian Inventory of Che n National Chemical Inventory	emical Substances)				
Listed on the Inv	entory of Existing Chemical St	ubstances Produced or Im	ported in China (IECSC).			
	panese ENCS (Existing & New rean ECL (Existing Chemicals		ventory			
	<u> </u>					
15.3. US State re						
No additional infor	mation available					
SECTION 16:	Other information					
Revision date		: 10/19/2015				
Indication of change	ges	1:		,		
2	Classification		Modified	Classification based	on composition	
3	Composition/Information on	 inaredients		changes Revised		
14	Classification	Removed Transportation classification based on				
	O do sillo di la constanti		1101100	composition revision		
Data sources		· Furancea Chemicala	Agency (ECHA) Registered	1 Substances list		
Data Soulces		Internal Company tes		a Gubatanices list.		
		Component Supplier				
			-			
7° ~ \						
,						
10/19/2015	-	EN (English US)	SDS II	D: Lucas SiMintDet	5/6	

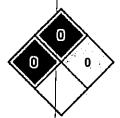
Safety Data Sheet

Abbreviations and acronyms	: ATE: Acute Toxicity Estimate.
Abbreviations and actoriyitis	
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals.
	LD50: Lethal Dose for 50% of the test population.
	SDS: Safety Data Sheet.
Full text of H-phrases:	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1	Skin sensitization Category 1
H227	Combustible liquid
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard

NFPA fire hazard NFPA reactivity

- 0 Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
- 0 Materials that will not burn.
- 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

SDS prepared by: e Redstone Group, LLC √77 Frantz Rd. Suite 206 Dublin, OH USA 43017 T 614-923-7472 www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SDS PREP DATE: 7/15/2015

SDS REVISION DATE: 6/2/2015

Product ID:

LCI-POWER GEAR-KWIKEE 1217 E. 7TH STREET MISHAWAKA, IN 46544 574-258-7730

24 Hour Emergency - 800-940-4736 KHA

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS.

Section 1: Company and Product Identification

LCI-POWER GEAR-KWIKEE 1217 E. 7TH STREET MISHAWAKA, IN 46544 574-258-7730

24 Hour Emergency - 800-940-4736 KHA

Product ID:

Product Name: Kwiklube
Intended Use: LUBRICANT

Section 2: Hazard(s) Identification

luct Signal Word:

DANGER

Physical Hazard Classification:

Flammable Aerosols, Category 1

DANGER

Physical Hazard Precautionary Statements:

Extremely flammable aerosol.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

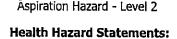
Do not pierce or burn, even after use.

Protect from sunlight.

Do not expose to temperatures exceeding 50 °C/122°F.

Health Hazard Classification(s):

·	
Acute Toxicity - Oral - Level 5	Warning
Acute Toxicity - Dermal - Level 5	Warning
Acute Toxicity - Inhalation - Level 5	Warning
Skin Corrosion/Irritation -Level 3	Warning
Eye Damage/Irritation -Level 2A	Warning
Specific Target Organ Toxicity (Single Exposure	e) - Warning
cific Target Organ Toxicity (Repeated Expos	sure) - Warning



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Warning







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Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands and exposed areas thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER/doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

/e irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local regulations.

Section 3: Product Composition

	CA	S# 9	% Range	PEL	TLV
HYDROCARBON PROPELLANT	68476-86-8	10%	30%	NO DATA	NO DATA
PETROLEUM HYDROCARBON BASE	64741-88-4	30%	80%	NOT ESTABLISHED	NOT ESTABLISHED
ALIPHATIC HYDROCARBON *	110-54-3	1%	5%	500 PPM	50 PPM
p-Chlorobenzotrifluoride	98-56-6	10%	30%	NOT ESTABLISHED	NOT ESTABLISHED
POLYISOBUTYLENE	9003-27-4	1%	5%	NOT ESTABLISHED	NOT ESTABLISHED
	-				

Specific chemical identity and exact percentages are withheld as Trade Secret.

Section 4: First-Aid Measures

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

a POISON CENTER/doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

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Product ID:

LCI-POWER GEAR-KWIKEE 1217 E. 7TH STREET MISHAWAKA, IN 46544 574-258-7730

24 Hour Emergency - 800-940-4736 KHA

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

GENERAL: This material is an aspiration hazard and defats the skin. Breathing vapors of high concentrations may cause CNS depression.

EYE CONTACT: Slightly irritating but does not injure eye tissue.

SKIN CONTACT: Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INHALATION: High vapor/aerosol concentrations (greater than approximately 100 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION: Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly minimal toxicity.

FIRST AID

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT: Flush with large amounts of water use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention

INGESTION: If swallowed, DO NOT induce vomiting, Keep at rest, Get prompt medical attention,

CAUTIONS

CIAL PRECAUTIONS: Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

PERSONAL PROTECTION: For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where concentrations in air may exceed the limits, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

Section 5: Fire-Fighting Measures_

FIRE AND EXPLOSION HAZARDS: This product releases Flammable Vapors at well below ambient temperatures and readily forms flammable mixtures with air exposed to an ignition source. It will burn in the open or be explosive in confined spaces. Its vapors are heavier than air and may travel long distances to a point of ignition, and then flash back. Alkaline/chlorine gas mixtures have produced explosions.

EXTINGUISHING MEDIA: Dry Chemical. CO2. Halogenated Extinguishing Agent, Stop Gas Flow.

SPECIAL FIREFIGHTING PROCEDURES: Gas fires should not be extinguished unless the gas flow can be stopped immediately. Allow the fire to burn itself out. If the source cannot be shut off immediately, all equipment and surfaces exposed to the fire should be cooled with water to prevent over-heating flash-backs, or explosions. Control fire until gas supply can be shut off. Use proper protective equipment. Use fresh air respirator when exposure to hazardous concentrations of toxic gases is possible.

FIRE FIGHTING: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boiling over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

tion 6: Accidental Release Measures_

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:

Clean up area by mopping or with absorbent materials and place in closed container for disposal, Consult Federal, State, and local disposal authorities.

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WASTE DISPOSAL METHOD: Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

Section 7: Handling and Storage _

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

VENTILATION REQUIREMENT: Use adequate level exhaust ventilation. Note: Where carbon monoxide may be generated, special ventilation may be required. Local exhaust recommended when appropriate to control employee exposure.

RESPIRATORY PROTECTION: Based on contamination level and working limits of the respirator, use a respirator approved by NIOSH/MSHA.

EYES: Face shield and goggles or chemical goggles should be worn.

GLOVES: Impervious gloves should be worn. Gloves contaminated with the product should be discarded. Polyfluorinated polyethylene has been suggested.

ER CLOTHING EQUIPMENT: Standard work clothing. Standard work shoes; discard if shoes can not be decontaminated. Store contaminated clothing in ventilated cabinets or closed containers. Wash contaminated clothing and dry before reuse.

RESPIRATORY PROTECTION: In situations where vapor concentrations exceed the recommended exposure limits, a NIOSH approved organic vapor cartridge or air-supplying respirator should be worn.

Section 8: Exposure Control / Personal Protection

Do not breathe dust/fume/gas/mist/vapours/spray,

Avoid breathing dust/fume/gas/mist/vapours/spray,

Wash hands and exposed areas thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

VENTILATION REQUIREMENT: Use adequate level exhaust ventilation. Note: Where carbon monoxide may be generated, special ventilation may be required. Local exhaust recommended when appropriate to control employee exposure.

RESPIRATORY PROTECTION: Based on contamination level and working limits of the respirator, use a respirator approved by NIOSH/MSHA.

EYES: Face shield and goggles or chemical goggles should be worn.

GLOVES: Impervious gloves should be worn. Gloves contaminated with the product should be discarded. Polyfluorinated polyethylene has been suggested.

OTHER CLOTHING EQUIPMENT: Standard work clothing. Standard work shoes; discard if shoes can not be decontaminated. Store contaminated clothing in ventilated cabinets or closed containers. Wash contaminated clothing and dry before reuse.

RATORY PROTECTION: In situations where vapor concentrations exceed the recommended exposure limits, a NIOSH approved organic vapor cartridge or air-supplying respirator should be worn.

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Section 9: Product Properties_

Flash Point (CCP):

LVL 3 AEROSOL, PROPELLENT: -136°F

Boiling Point for Product:

N/D

Vapor Pressure for Product:

N/D

Vapor Density for Product:

N/D

Specific Gravity:

N/D

V.O.C.:

>25% by weight

Water Solubility:

NIL

Appearance:

AEROSOL SPRAY

PH:

N/D

Section 10: Stability and Reactivity

3ILITY: Stable

CONDITIONS TO AVOID: Temperatures above 130 degree F.

HAZARDOUS POLYMERIZATION: Will not occur

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: None

Section 11: Toxicological Information

PETROLEUM HYDROCARBON BASE STOCK 64741-88-4

Viscosity of liquid may pose a choking hazard if enters the airways. Do not induce vomitting if swallowed.

ALIPHATIC HYDROCARBON * 110-54-3

Acute oral toxicity: LD 50 Rat: Acute inhalation toxicity: LC 50 Rat:

2,500 mg/kg

48,000 ppm, 4 hours

Acute dermal toxicity: LD 50 Rabbit: > 1,300 mg/kg

Routes of Entry: Inhalation, skin absorption, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: Inhalation of vapors irritates the respiratory tract. Overexposure may cause central nervous system depression with lightheadedness, nausea, headache, and blurred vision. Greater exposure may cause muscle weakness, numbness of the extremities, unconsciousness and suffocation. Vapors can displace oxygen, especially in confined spaces.

INGESTION HAZARD: May produce gastrointestinal irritation with abdominal pain, nausea, vomiting, and diarrhea. Aspiration into lungs may cause chemical pneumonitis, which may be fatal. May cause central nervous system depression.

SKIN CONTACT HAZARD: May cause redness, irritation, dryness, cracking, and pain. Defatting or dermatitis may result from prolonged or repeated exposure. Hexane may be absorbed through the skin with possible systemic effects. There are no reports of skin sensitization through occupational mosure. Sensitization was not observed in a maximization test using 25 volunteers.

CONTACT HAZARD: Vapors cause mild irritation. Splashes may cause redness and pain.

____ pnic Exposure Hazards: Repeated or prolonged skin contact may defat the skin and produce irritation and dermatitis. Prolonged exposure may cause adverse reproductive effects and visual disturbances. Chronic inhalation may cause peripheral nerve disorders and central nervous system effects, Laboratory tests have resulted in mutagenic effects. May affect the developing fetus. Chronic exposure produces peripheral neuropathy with effects

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FETY DATA SHEET

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including muscular weakness, paresthesia, numbing of the hands, feet, legs, and arms, unsteadiness, and difficulty walking and standing. Repeated exposure may cause nervous system abnormalities with muscle weakness and damage, motor incoordination, and sensation disturbances. Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

p-Chlorobenzotrifluoride 98-56-6

Acute oral toxicity:

LD 50 Rat: >6,800 mg/kg

Acute inhalation toxicity: LC50 Rat: 4,479 ppm

Acute dermal toxicity: Skin irritation:

LD50 Rabbit: >2,700 mg/kg

Eye irritation:

Rabbit: non-irritating Rabbit: non-irritating

A 28-day range-finding inhalation study was conducted in male and female Sprague-Dawley rats exposed to 0, 100, 250, 500, or 1000 ppm for 6 hr/day, 5 days/week. Clinical signs included increased activity at 250 ppm and above. Liver and kidney weights were increased. Microscopic changes in male kidneys stained positive for alpha-2-U globulin and the effects were considered not relevant to humans. Liver cell hypertrophy was seen at all exposures in males. Liver changes were consistent with clinical chemistry and PCBTF-blood level analysis and are believed to be an adaptive response, due to increased liver metabolism. Gavage studies in laboratory rodents for treatment periods of 14, 28, and 90 days have demonstrated significant liver and kidney toxicity at dose levels of 400 - 1000 mg/kg/day. Evidence of target organ toxicity included significant increases in relative liver and kidney weights, clinical chemistry values and histopathological findings. Renal toxicity, which occurred only in male rats, was apparently due to "hyaline droplet" nephropathy and is therefore, highly unlikely to develop in man. The NOAEL's for all these studies range from 10 to 100 mg/kg/day. CNS effects were observed in rats exposed to PCBTF at or above 2822 ppm for 4 hours, A 90 day(13 week) rat inhalation toxicity and neurobehavioral study was conducted using exposures of 6 hrs/day, 5 days/week at concentrations of 0, 10, 50 and 250 ppm. There were no PCBTF-related macroscopic observations. Microscopically, PCBTF-related centrilobular hypertrophy was present only in the livers of males and females at the high dose (250 ppm) after 13-weeks of exposure. No centrilobular hypertrophy was observed at any level among recovery animals. There were no PCBTF-related effects on the nervous system as measured by a functional observation battery, muscular activity measurements and neuropathology. A NOEL of 50 ppm was established in this study for liver hepatocyte hypertrophy ale and female rats. If the hepatocyte hypertrophy observed is considered to be an adaptive response to PCBTF, the NOAEL for this study is 250ppm.

POLYISOBUTYLENE 9003-27-4

Acute oral toxicity:

LD 50:

>5,000 mg/kg

Section 12: Ecological Information

ALIPHATIC HYDROCARBON *

Ecotoxicity: Experimental studies involving Hexane show acute aquatic toxicity values of 2.1 mg/L and greater than 1000 mg/L. Environmental Fate: Persistence: Volatilization from soil surfaces is expected to be an important fate process. Hexane will be degraded in the atmosphere by reaction with hydroxyl radicals; the half-life of this reaction in air is estimated to be three days. Screening studies suggest that Hexane will undergo biodegradation in soil and water surfaces, but volatilization in expected be the predominant fate process in the environment. Hydrolysis is not expected to be an important environmental fate process. Bioaccumulation: An estimated bioconcentration factor (BCF) of 2300 and log Kow of 3.9 for Hexane suggest the potential for bioconcentration in aquatic organisms is high. Metabolites may partially bioaccumulate in the lipid bilayer of fish tissues. Mobility: Hexane is highly volatile and will partition rapidly in the air. When released into water, Hexane will be lost by volatilization and biodegradation. Hexane is expected to have high mobility in soils/sediments based on a Koc of 150. Volatilization from moist soil surfaces is expected to be an important fate process based on a Henry's law constant of 1/83 atm-m3/mole. Hexane may volatilize from dry surfaces based on its vapor pressure,

p-Chlorobenzotrifluoride 98-56-6

AQUATIC ECOTOX DATA

Fish:

LC50 (96 hr.) (Rainbow trout) 13.5 mg/L

LC50 (96 hr.) (Bluegill sunfish) 12.0 mg/L

MATC (31 day) (Fathead minnow) >0.54 <1.4 mg/L*

*Triethylene glycol used as solvent carrier

BCF (48 hr.) (Bluegill sunfish) 121.8 & 202.0

Invertebrates:

LC50 (48 hr.) (Water flea) 12.4 mg/L

MATC (21 day) (Water flea) >0.03 < 0.05 mg/L*

*Acetone used as solvent carrier

ni---ts:

(72 hr.) (Green & Blue-green algae) 500 mg/L

ESTRIAL ECOTOX DATA

No data available

ENVIRONMENTAL FATE DATA

SDS PREP DATE: 7/15/2015

SDS REVISION DATE: 6/2/2015

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FETY DATA SHEET

SDS PREP DATE: 7/15/2015

SDS REVISION DATE: 6/2/2015

LCI-POWER GEAR-KWIKEF 1217 E, 7TH STREET MISHAWAKA, IN 46544 574-258-7730

Product ID:

24 Hour Emergency - 800-940-4736 KHA

Biotic:

Biodegradation: inconclusive due to volatility

Abiotic:

Atmospheric lifetime: estimated to be 65.9 days for OH radical reaction

Log Kow 3.7

Koc 420 - 530

Water Sol. @ 23 C 29.1

p-Chlorobenzotrifluoride (PCBTF) will preferentially partition to the atmosphere, due to its high volatility. It has been estimated that 99.93% of a 100 Kg spill would end up in the atmosphere, while only 0.06% would partition to water (M. Garlanda, 1990). The aqueous solubility of PCBTF (29.1 mg/L) would also tend to limit its potential impact to exposed aquatic systems. PCBTF has exhibited significant toxicity to aquatic species under laboratory conditions, but is unlikely to exhibit a similar degree of acute toxicity under environmental conditions due to the aforementioned solubility and volatility issues. The moderate level of bioaccumulation measured in laboratory tests will also be subject to environmental mitigation due to PCBTHs physical/chemical properties. PCBTF should rapidly volatilize from dry and moist soils. Volatility, and relative environmental partitioning characteris

If applicable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified in Section III with an "*". Additional ecological information is Not Determined.

Section 13: Disposal Information

pose of contents/container in accordance with local regulations.

WASTE DISPOSAL METHOD: Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

Section 14: Transportation Information____

DOT Proper Shipping Name: UN1950

Aerosols, flammable, '(each not exceeding 1L

capacity) 2.1, LIMITED QUANTITY

Section 15: Regulatory Information_____

	CAS#	PEL	TLV
HYDROCARBON PROPELLANT	68476-86-8	NO DATA	NO DATA
PETROLEUM HYDROCARBON BASE	64741-88-4	NOT ESTABLISHED	NOT ESTABLISHED
ALIPHATIC HYDROCARBON *	110-54-3	500 PPM	50 PPM
p-Chlorobenzotrifluoride	98-56-6	NOT ESTABLISHED	NOT ESTABLISHED
POLYISOBUTYLENE	9003-27-4	NOT ESTABLISHED	NOT ESTABLISHED

Section 16: Other Information

licable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified above with

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FETY DATA SHEET

SDS PREP DATE: 7/15/2015

SDS REVISION DATE: 6/2/2015

Product ID:

LCI-POWER GEAR-KWIKEE 1217 E. 7TH STREET MISHAWAKA, IN 46544 574-258-7730

24 Hour Emergency - 800-940-4736 KHA

Consumer Product Safety Act Certificaton.

This product was evaluated by the Company listed above and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location identified on the SDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above mentioned regulation.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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SAFETY DATA SHEET

KS0024600

Section 1. Identification

Product name

: KOQL SEAL® Premium Fibered Aluminum Roof Coating (5 year)

Product code

: KS0024600

Other means of

: Not available.

identification

CAS#

: Not applicable.

Product type

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufacturer

: KST Coatings

A Business Unit of the Sherwin-Williams Co.

101 W. Prospect Avenue Cleveland, OH 44115

Emergency telephone

number of the company

: US / Canada: (216) 566-2917

Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year

Product Information Telephone Number

: US / Canada: (888) 321-5665

Mexico: Not Available

Regulatory Information **Telephone Number**

: US / Canada: (216) 566-2902

Mexico: Not Available

Transportation Emergency

Telephone Number

: US / Canada: (800) 424-9300

Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Catégory 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous

system (CNS), lungs) - Category 1 ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 57.7%

GHS label elements

Hazard pictograms







Signal word

: Danger

Date of issue/Date of revision

: 5/12/2017

Date of previous issue

: 4/18/2017

Version : 6

1/14

Section 2. Hazards identification

Hazard statements

: Flammable liquid and vapor.

Causes serious eye irritation.

May cause cancer.

May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), lungs)

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

Store locked up. Store in a well-ventilated place. Keep cool.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Asphalt (Petroleum) Med. Aliphatic Hydrocarbon Solvent Stoddard Solvent Mica Heavy Aliphatic Solvent Kaolin Crystalline Silica, respirable powder Crystalline Silica, non-respirable	30.47 27.04 10.51 9.61 2.49 2.26 0.78 0.18	8052-42-4 64742-88-7 8052-41-3 12001-26-2 64742-82-1 1332-58-7 14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

estimated attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: No known significant effects or critical hazards.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways,

Over-exposure signs/symptoms

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Section 4. First aid measures

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact

: No specific data.

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway,

sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

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Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits				
Asphalt (Petroleum)	NIOSH REL (United States, 10/2013). CEIL: 5 mg/m³ 15 minutes. Form: Fume ACGIH TLV (United States, 3/2016). TWA: 0.5 mg/m³, (as benzene soluble				
Med. Aliphatic Hydrocarbon Solvent	aerosol) 8 hours. Form: Inhalable fraction OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours.				
Stoddard Solvent	TWA: 400 mg/m³ 8 hours. ACGIH TLV (United States, 3/2016). TWA: 100 ppm 8 hours. TWA: 525 mg/m³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 350 mg/m³ 10 hours. CEIL: 1800 mg/m³ 15 minutes. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours.				
Mica	TWA: 2900 mg/m³ 8 hours. ACGIH TLV (United States, 3/2016). TWA: 3 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 3 mg/m³ 10 hours. Form: Respirable fraction OSHA PEL Z3 (United States, 6/2016).				
Heavy Aliphatic Solvent Kaolin	TWA: 20 mppcf 8 hours. None. ACGIH TLV (United States, 3/2016). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total OSHA PEL (United States, 6/2016). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction				
Crystalline Silica, respirable powder	TWA: 15 mg/m³ 8 hours. Form: Total dust OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form Respirable OSHA PEL (United States, 6/2016). TWA: 50 μg/m³ 8 hours. Form: Respirable				

Section 8. Exposure controls/personal protection dust ACGIH TLV (United States, 3/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust OSHA PEL (United States, 6/2016). TWA: 50 μg/m³ 8 hours. Form: Respirable dust OSHA PEL Z3 (United States, 6/2016). TWA: 30 mg/m³ / (%SiO2+2) 8 hours. Form: Total dust

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Med. Aliphatic Hydrocarbon Solvent	CA Quebec Provincial (Canada, 1/2014). TWAEV: 400 ppm 8 hours.
Stoddard Solvent	TWAEV: 1590 mg/m³ 8 hours. CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 572 mg/m³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2015). TWA: 290 mg/m³ 8 hours. STEL: 580 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 100 ppm 8 hours. TWAEV: 525 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Stoddard Solvent	NOM-010-STPS (Mexico, 4/2016). LMPE-PPT: 100 ppm 8 hours.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available,

pH : Not available.

Melting point : Not available.

Boiling point : 141°C (285.8°F)

Flash point : Closed cup: 41°C (105.8°F) [Pensky-Martens Closed Cup]

Evaporation rate : 0.13 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive : Lower: 0.8% (flammable) limits Upper: 6%

Vapor pressure : 0.69 kPa (5.17 mm Hg) [at 20°C]

Vapor density : 0.69 kPa (5.17 mm Hg) [at 20°C]

Relative density : 1.01

Solubility : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Section 9. Physical and chemical properties

Viscosity

: Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)

Molecular weight

: Not applicable.

Aerosol product

Heat of combustion

: 23.97 kJ/g

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Asphalt (Petroleum)	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Stoddard Solvent	Eyes - Mild irritant	Human	-	100 parts per million	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSH	IA IA	ARC	NTP
Asphalt (Petroleum) Crystalline Silica, respirable powder Crystalline Silica, non- respirable	-	2E 1	В	- Known to be a human carcinogen. Known to be a human carcinogen.

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Section 11. Toxicological information

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Med. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Stoddard Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Heavy Aliphatic Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Med. Aliphatic Hydrocarbon Solvent Stoddard Solvent Mica Heavy Aliphatic Solvent	Category 1 Category 1 Category 1 Category 1	Not determined Not determined Inhalation Not determined	Not determined Not determined lungs central nervous
Kaolin Crystalline Silica, respirable powder	Category 1 Category 1	Inhalation Inhalation	system (CNS) lungs Not determined

Aspiration hazard

Name	Result
Med. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Stoddard Solvent	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact

: No known significant effects or critical hazards.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering redness inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact

: No specific data.

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Potential chronic health effects

Not available.

General

: Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity

: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

Developmental effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Heavy Aliphatic Solvent	-	10 to 2500	high

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3	3	3	3	3
Packing group	tii	III	III	!!!	111
Environmental hazards	No.	No.	No.	No.	No.
Additional information	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.	following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).			Emergency schedules (EmS) F-E, S-E
	ERG No.	ERG No.	ERG No.		
	128	128	128		

Section 14. Transport information

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged sultably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Proper shipping name

: Not available.

Ship type

: Not available. : Not available.

Pollution category

Section 15. Regulatory information

SARA 313

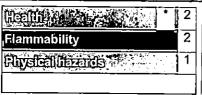
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

<u>Hazardous Material Information System (U.S.A.)</u>



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

	Classification	Justification
FLAMMABLE LIQUIDS - Category: SERIOUS EYE DAMAGE/ EYE IRR CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXI irritation) - Category 3	TATION - Category 2A	On basis of test data Calculation method Calculation method Calculation method
	CITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
SPECIFIC TARGET ORGAN TOXION System (CNS), lungs) - Category 1	CITY (REPEATED EXPOSURE) (central nervous	Calculation method
ASPIRATION HAZARD - Category	1	Calculation method

<u>History</u>

Date of printing

5/12/2017

: 5/12/2017

Date of issue/Date of revision : 5/12/2017 Date of previous issue : 4/18/2017 Version : 6 13/14

Section 16. Other information

Date of issue/Date of

revision

Date of previous issue : 4/18/2017

Version

: 6

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN # United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

KS0063600

Section 1. Identification

Product name

: KOOL SEAL® Premium Elastomeric Finish Coat White (10 year)

Product code

: KS0063600

Other means of

Not available.

identification

CAS#

: Not applicable.

Product type

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufacturer

: KST Coatings

A Business Unit of the Sherwin-Williams Co.

101 W. Prospect Avenue Cleveland, OH 44115

Emergency telephone

number of the company

: US / Canada: (216) 566-2917

Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year

Product Information Telephone Number

: US / Canada; (888) 321-5665

Mexico: Not Available

Regulatory Information Telephone Number

: US / Canada: (216) 566-2902

Mexico: Not Available

Transportation Emergency

Telephone Number

: US / Canada: (800) 424-9300

Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910,1200).

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1 **CARCINOGENICITY - Category 1A**

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4.2%

GHS label elements

Hazard pictograms





Signal word

: Danger

Hazard statements

: May cause an allergic skin reaction.

May cause cancer.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have

product container or label at hand.

Date of issue/Date of revision

: 4/18/2017

Date of previous issue

: 2/1/2017

Version : 4.02

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Section 2. Hazards identification

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's

directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Keep out of reach of children. Do

not transfer contents to other containers for storage.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by	weight CAS number	
Titanium Dioxide 1,3,5-Triazine-triethanol Crystalline Silica, respirable powder	4.2 0.16 0.13	13463-67-7 4719-04-4 14808-60-7	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: No known significant effects or critical hazards.

Inhalation

: No known significant effects or critical hazards.

Skin contact

: May cause an allergic skin reaction.

Ingestion

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eve contact Inhalation

: No specific data. : No specific data.

Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion

: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

media

Unsuitable extinguishing

: None known.

media

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Version : 4.02

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Titanium Dioxide	ACGIH TLV (United States, 3/2016).
	TWA: 10 mg/m ³ 8 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 15 mg/m³ 8 hours. Form: Total dust
1,3,5-Triazine-triethanol	None.
Crystalline Silica, respirable powder	OSHA PEL Z3 (United States, 6/2016).
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
·	Respirable
	TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 6/2016).
	TWA: 50 µg/m³ 8 hours. Form: Respirable
	dust
	ACGIH TLV (United States, 3/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
f	Respirable fraction
	NIOSH REL (United States, 10/2013).
	TWA: 0.05 mg/m³ 10 hours. Form: respirable
	dust

Occupational exposure limits (Canada)

Ingredient name	Exposure limits	
None.		

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits	
None.		

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

specialist

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state

: Liquid.

Color Odor Not available.Not available.

Odor threshold

: Not available.

рН

: 9

Melting point

: Not available.

Boiling point

: 100°C (212°F)

Flash point

: Closed cup: >93.3°C (>199.9°F)

Evaporation rate

: 0.09 (butyl acetate = 1)

Flammability (solid, gas)

: Not available.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure

: 2.3 kPa (17.5 mm Hg) [at 20°C]

Vapor density

: 1 [Air = 1]

Relative density

: 1.33

Solubility

: Not available.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature

: Not available. : Not available.

Decomposition temperature

Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)

Viscosity

: Not applicable.

Molecular weight Aerosol product

Heat of combustion

: 0.894 kJ/g

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Section 10. Stability and reactivity : No specific test data related to reactivity available for this product or its ingredients. Reactivity : The product is stable. Chemical stability : Under normal conditions of storage and use, hazardous reactions will not occur. Possibility of hazardous reactions Conditions to avoid : No specific data. Incompatible materials : No specific data. : Under normal conditions of storage and use, hazardous decomposition products should Hazardous decomposition not be produced. products Section 11. Toxicological information Information on toxicological effects **Acute toxicity** Exposure Dose Species Product/ingredient name Result 763 mg/kg LD50 Öral Rat 1,3,5-Triazine-triethanol Irritation/Corrosion Observation **Species** Score Exposure Product/ingredient name Result 72 hours 300 Titanium Dioxide Skin - Mild irritant Human Micrograms Intermittent Sensitization Not available. **Mutagenicity** Not available. Carcinogenicity Not available. Classification NTP **OSHA IARC** Product/ingredient name 2B Titanium Dioxide Crystalline Silica, respirable Known to be a human carcinogen. powder Reproductive toxicity Not available. Teratogenicity Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) 7/11 Version :4.02 : 2/1/2017 Date of issue/Date of revision : 4/18/2017 Date of previous issue

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
1,3,5-Triazine-triethanol	Category 1 Category 1	Not determined	Not determined
Crystalline Silica, respirable powder		Inhalation	Not determined

Aspiration hazard

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact Inhalation

No known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact

: May cause an allergic skin reaction.

Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data.

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion

: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Potential chronic health effects

Not available.

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity

: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity
Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity		 	
Product/ingredient name	Result	Species	Exposure
Titanium Dioxide 1,3,5-Triazine-triethanol	Acute E	Fish - Fundulus heteroclitus Daphnia - Daphnia magna Fish - Lepomis macrochirus	96 hours 48 hours 96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	•	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Date of issue/Date of revision	4/18/2017	Date of previous issue	: 2/1/2017	Version	: 4.02	9/11
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Section 14. Transport information

Special precautions for user:

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and

: Not available.

to Annex II of MARPO: the IBC Code

Proper shipping name

: Not available.

Ship type

: Not available.

Pollution category

: Not available.

Section 15. Regulatory information

SARA 313

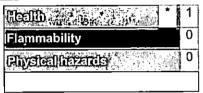
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16, Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

	lassification	Ju	stification
SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A		Calculation Calculation	

<u>History</u>

Date of printing

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Section 16. Other information

Key to abbreviations

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS

Globally Harmonized System of Classification and Labelling of Chemicals

IATA | International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

11/11 Version: 4.02 Date of issue/Date of revision 4/18/2017 Date of previous issue : 2/1/2017



INSTAPAK® QUICK TUFF® RT COMPONENT "B"

Version: 1

Preparation date:

2015-03-25

1. IDENTIFICATION

Product Name:

INSTAPAK® QUICK TUFF® RT COMPONENT "B"

Product Code:

Not Applicable

SDS#:

M-68

Recommended Use:

Component used for producing Instapak® polyurethane foam

Uses Advised Against:

Uses other than those identified are not recommended

Manufacturer, Importer,

Supplier:

Sealed Air Corporation (US) 10 Old Sherman Turnpike

Danbury, CT 06810 Phone: 203-791-3500

Emergency Telephone

Number:

Chemtrec 800-424-9300

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Causes serious eye irritation.

Category 2A

1=Highest severity 2=High severity

3=Low severity 4=Lowest severity



Signal Word:

Warning

Hazard Statements:

Causes serious eye irritation.

Precautionary statements:

Wash hands thoroughly after handling. Wear eye protection/face protection.

IF N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

Health hazards not otherwise classified (HHNOC) -

Not applicable

Physical hazards not otherwise classified (PHNOC) -

Not applicable



3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients:

Alcohols, C9-11, ethylated

<u>CAS No.</u> Proprietary Weight %

5-20

Exact percentages and CAS numbers are being withheld as trade secret information. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Eves:

IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

Inhalation:

No specific first aid measures are required.

Ingestion:

IF SWALLOWED: Call a poison center/doctor/ if you feel unwell. Rinse mouth.

Most important symptoms/effects:

Eyes:

Causes serious eye irritation. Adverse symptoms may include irritation, watering, and redness.

Skin:

Non-irritating to skin.

Inhalation:

No information available.

Ingestion:

No information available.

Immediate medical attention and special treatment needed: Not applicable.

Aggravated Medical Conditions: No information available.

5. FIRE-FIGHTING MEASURES

Specific Methods:

No special methods required.

Suitable Extinguishing Media:

The product is not flammable. Extinguish fire using agent suitable for

surrounding fire.

Specific Hazards:

Not applicable.

Special Protective Equipment for Fire Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.

Unsuitable Extinguishing Media: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate area surrounding the spill and prevent further spillage, leakage or entry into drains. Eye and skin protection should be worn during spill cleanup and ventilation maintained (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up: Absorb spillages onto sand, earth or any suitable absorbent material. Shovel into open-top drums, open containers or thick mil plastic bags. Wash the spillage area with water. Remove and dispose of residues. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material. Empty containers retain product residue and can be hazardous.

Storage: Store product in accordance with local regulations. Keep container tightly closed in a cool, well-ventilated place.

Aerosol Level (if applicable): Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Ingredient(s)

CAS#

OSHA-PEL

ACGIH-TLV

Not applicable.

Engineering Controls to Reduce Exposure: No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment:

Eve protection:

Safety glasses with side shields or goggles.

Hand protection:

Chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable

protective gloves.

Skin and body protection:

Respiratory protection:

Appropriate footwear.

Respiratory protection should not be needed under normal use and handling

conditions.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that evewash stations are close to the workstation location.

Refer to the "Instapak Quick® RT product User's Guide" before handling Instapak® chemicals for additional information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Light straw or amber
Odor: Slightly aromatic (musty)

Odor Threshold: Not available

pH: Not available

Melting Point/Freezing Points: -20°F (-29°C)
Boiling/condensation point: 406°F (208°C)

Flash point: Product as supplied does not have

a flash point: Product as supplied does not nav

Evaporation rate: Not available

Flammability (solid, gas): Not available

Lower and upper explosive limits: Not available

Vapor Pressure: Not available Vapor Density (Air = 1): >1 Relative Density: 1.03 at 25°C Solubility in Water: Soluble

Partition coefficient: n- octanol/water: Not available

Auto-Ignition temperature: Not available Decomposition temperature: Not available

Viscosity: Not available



16. OTHER INFORMATION

Version Number: 1

Preparation date: 2015-03-25

SDS Code: M-68

Reason for revision: Not applicable.

Prepared by: NAPCRA

Additional advice: Not applicable.

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.



10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Stability: Stable at room temperature.

Possibility of Hazardous Reactions: Not applicable.

Hazardous Decomposition Products: Exposure to fire or extreme heat may generate dxides of carbon and

oxides of nitrogen.

Materials to Avoid: Contact with isocyanates unless mixed at the proper ratio.

Conditions to Avoid: Not applicable.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye contact, Skin contact, Inhalation, Ingestion.

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure:

Eye Contact: Causes serious eye irritation. Adverse symptoms may include irritation, watering, and redness.

Skin Contact: Non-irritating to skin.
Inhalation: No information available.
Ingestion: No information available.
Sensitization: No information available.

Numerical measures of toxicity:

ATE - Oral (mg/kg) Not available

Carcinogenicity:

<u>ouromogornoity</u> i			
Ingredient(s)	 IARC	OSHA	NTP
Not applicable			

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

<u>Bioaccumulation:</u> No information available. **<u>Mobility in Soil:</u>** No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations.

Contaminated Packaging: Do not re-use empty containers.

RCRA Hazard Class (undiluted product): Discarded product is not a hazardous waste under RCRA, 40 CFR 261, when disposed of in its purchased form.



14. TRANSPORT INFORMATION

DOT: Not regulated. TDG: Not regulated. IMDG: Not regulated. IATA: Not regulated.

DOT (Ground) Bill of Lading Description: Not regulated. IMDG (Ocean) Bill of Lading Description: Not regulated.

15. REGULATORY INFORMATION

International Inventories at CAS# Level:

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations:

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

RIGHT TO KNOW (RTK):

111011111111111111111111111111111111111					
Ingredient(s)	CAS#	MARTK	NJRTK	PARTK	RIRTK
Not applicable					

15. REGULATORY INFORMATION

CERCLA/SARA

3	JEHOEN JAHA.					
	Ingredient(s)	CAS#	Weight %	CERCLA/SARA RQ (lbs.)	Section 302 TPQ (lbs.)	Section 313
	Not applicable					

Ingredient(s)	CAS#	CAA HAP	CAA ODS	CWA Priority Pollutants
Not applicable				

SARA 311/312 Hazard Categories:

Immediate: Delayed: Fire: Reactivity: Sudden Release of Pressure:

Canadian Regulations:

CEPA DSL: All components are listed or exempted.

16. OTHER INFORMATION

NFPA:

Health:

2

Flammability:

1

Instability:

0 Special Hazard: None

0=Minimal

2=Moderate

3=High

4=Extreme

1=Slight



INSTAPAK® QUICK TUFF® RT COMPONENT "A"

Version: 1

Preparation date:

2015-03-25

1. IDENTIFICATION

Product Name:

INSTAPAK® QUICK TUFF® RT COMPONENT "A"

Product Code:

Not Applicable

SDS#:

M-67

Recommended Use:

Component used for producing Instapak® polyurethane foam

Uses Advised Against:

Uses other than those identified are not recommended

Manufacturer, Importer,

Supplier:

Sealed Air Corporation (US) 10 Old Sherman Turnpike Danbury, CT 06810

Phone: 203-791-3500

Emergency Telephone

Number:

Chemtrec 800-424-9300

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Acute Toxicity: Inhalation Category 4 Skin Corrosion/Irritation Category 2 Serious Eye Damage/ Eye Irritation Category 2B Respiratory Sensitization Category 1 Skin Sensitization Category 1 Category 3

Specific Target Organ Toxicity (Single

Exposure) [Respiratory Tract Irritation]

1=Highest severity 2=High severity 3=Low severity 4=Lowest severity





Signal Word:

Danger

Hazard Statements:

Harmful if inhaled.

Causes skin and eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary statements:

Wear chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable protective gloves. Wear eye or face protection. Use in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Dispose of contents and container in accordance with all local, regional, national and international

regulations.



2. HAZARD(S) IDENTIFICATION

<u>Health hazards not otherwise classified (HHNOC)</u> - Not applicable <u>Physical hazards not otherwise classified (PHNOC)</u> - Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients:CAS No.Weight %Polymeric Diphenylmethane Diisocyanate (Polymeric MDI or PMDI)9016-87-960-1004,4'-Diphenylmethane diisocyanate101-68-830-60

Exact percentages and CAS numbers are being withheld as trade secret information. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Eyes: IF IN EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention immediately.

Skin: IF ON SKIN: After contact with skin, wash immediately with plenty of warm soapy water: Remove

contaminated clothing and shoes. Continue to rinse for at least 10 minutes. An MDI study has demonstrated that a poly glycol-based skin cleanser (such as D-TamTM, PEG-400) or corn oil may be more effective than soap and water. Get medical attention if symptoms occur. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

<u>Inhalation:</u> IF INHALED: Move exposed person to fresh air. Get medical attention immediately. Treatment is

symptomatic for primary irritation or bronchospasm. If breathing is labored, oxygen should be

administered by qualified personnel.

<u>Ingestion:</u> IF SWALLOWED: Do not induce vomiting unless directed to do so by medical personnel. Never

give anything by mouth to an unconscious person. Provided the patient is conscious, wash out

mouth with water. Get medical attention if symptoms appear.

Most important symptoms/effects:

Eyes: Causes eye irritation. Adverse symptoms may include pain or irritation, watering, and redness.

Skin: Causes skin irritation. Adverse symptoms may include irritation and redness. May cause

sensitization by skin contact. Animal studies have shown that respiratory sensitization can be induced by skin contact with known respiratory sensitizers including diisocyanates. These results emphasize the need for protective clothing including gloves to be worn at all times when handling

these chemicals.

Inhalation: Harmful if inhaled. May cause respiratory irritation. Adverse symptoms may include respiratory

tract irritation, coughing, wheezing and breathing difficulties, and asthma. This product is a respiratory irritant and potential respiratory sensitizer. Repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of the respiratory symptoms may be

delayed for several hours after exposure. A hyper-reactive response to even minimal

concentrations of MDI may develop in sensitized persons. LC50 (rat): ca. 490 mg/m³ (4 hours): using experimentally produced respirable aerosol having aerodynamic diameter < 5 microns.

<u>Ingestion:</u> Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.



4. FIRST-AID MEASURES

<u>Immediate medical attention and special treatment needed:</u> Symptomatic and supportive therapy as indicated. Following severe exposure, medical follow-up should be monitored for at least 48 hours.

<u>Aggravated Medical Conditions</u>: Persons with pre-existing respiratory disorders may be more susceptible to irritating effects.

5. FIRE-FIGHTING MEASURES

Specific Methods:

No special methods required.

Suitable Extinguishing Media:

Foam, carbon dioxide (CO₂) or dry powder.

Specific Hazards:

Containers with residual chemical may burst under intense heat or pressure. Due to reaction with water, a hazardous build-up of pressure could result if

containers contaminated with moisture are sealed.

Special Protective Equipment for Fire Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.

Unsuitable Extinguishing Media: Water may be used in large quantities. Reaction between water and hot isocyanate may be vigorous. Contain run-off water with temporary barriers and keep fire exposed containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate area surrounding the spill and prevent further spillage, leakage or entry into drains. Eye and skin protection should be worn during spill cleanup and ventilation maintained. If the potential for airborne concentrations of MDI above the PEL exists, then respiratory protection should be worn (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up: Absorb spillages onto sand, earth or any suitable adsorbent material. Leave to react for at least 30 minutes. Shovel into open-top drums, open containers or thick mil plastic bags for further decontamination. Wash the spillage area with water. Neutralize small spillages with decontaminant (5-10 % sodium carbonate, 0.2-2 % liquid detergent, water to make up to 100%). Remove and dispose of residues. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not use this product. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Empty containers retain product residue and can be hazardous.

Storage: Store product in accordance with local regulations. Keep container tightly closed in a cool, well-ventilated place. Keep away from moisture. Due to reaction with water producing CO₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Do not reseal contaminated containers. Use appropriate containment to avoid environmental contamination.

Aerosol Level (if applicable): Not applicable.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Ingredient(s) CAS# **OSHA-PEL** ACG!H-TLV 4,4'-Diphenylmethane diisocyanate (MDI) 101-68-8 0.02 ppm (Ceiling) 0.005 ppm (TWA)

Engineering Controls to Reduce Exposure: Use only with adequate ventilation. Use local exhaust ventilation if necessary to maintain levels below any recommended or statutory limits. Medical supervision of all employees who handle or come in contact with respiratory sensitizers is recommended. Personnel with a history of asthma-type conditions, bronchitis or skin sensitization conditions should not work with MDI based products. The Occupational Exposure Limits listed do not apply to previously sensitized individuals. Sensitized individuals should be removed from any further exposure.

Personal Protective Equipment:

Eye protection: Safety glasses with side shields or goggles.

Hand protection: Chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable

protective gloves.

Skin and body protection: Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed.

Respiratory protection: Due to the low vapor pressure of this material, the PEL is not likely to be

exceeded under normal conditions. If the material is heated or spilled in a confined area, respiratory protection should be worn. An approved air purifying

respirator equipped with an organic vapor cartridge and a HEPA (P100)

particulate filter may be used when an appropriate cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134). Where concentrations exceed the level for which an airpurifying respirator is effective, use a positive pressure, supplied air respirator.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products,

> before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations are close to the workstation location.

Refer to the "Instapak Quick® RT product User's Guide" before handling Instapak® chemicals for additional information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Flammability (solid, gas): Not available

Color: Dark brown Lower and upper explosive limits: Not available **Odor:** Slightly aromatic (musty) Vapor Pressure: <10⁻⁵ mm Hg at 25°C (PMDI) Odor Threshold: Not available

Vapor Density (Air = 1): Not available

pH: Not available Relative Density: 1.24 at 25°C

Melting Point/Freezing Points: Not available Solubility in Water: Not soluble. Reacts slowly to liberate

CO₂.

Boiling/condensation point: 406°F (208°C) Partition coefficient: n- octanol/water: Not available

Flash point: 390°F (199°C) [Pensky-Martens Auto-Ignition temperature: >600°C Closed Cup1

Decomposition temperature: Not available

Viscosity: Not available

Evaporation rate: Not available



10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Stability: Stable at room temperature.

Possibility of Hazardous Reactions: Reaction with water (moisture) produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. PMDI is insoluble with and heavier than water and sinks to the bottom reacting slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating CO₂ gas.

Hazardous Decomposition Products: Highly unlikely under normal industrial use. Exposure to fire or extreme heat may generate oxides of carbon, oxides of nitrogen, and traces of hydrogen cyanide.

Materials to Avoid: Water, amines, strong bases, copper alloys, acids and alcohols.

Conditions to Avoid: Avoid high temperatures.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye contact, Skin contact, Inhalation, Ingestion.

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure:

Eye Contact: Causes eye irritation. Adverse symptoms may include pain or irritation, watering, and redness.

Skin Contact: Causes skin irritation. Adverse symptoms may include irritation and redness. May cause sensitization by skin contact. Animal studies have shown that respiratory sensitization can be induced by skin contact with known respiratory sensitizers including isocyanates. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

Inhalation: Harmful if inhaled. May cause respiratory irritation. Adverse symptoms may include respiratory tract irritation, coughing, wheezing and breathing difficulties, and asthma. This product is a respiratory irritant and potential respiratory sensitizer: repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. LC50 (rat): ca. 490 mg/m³ (4 hours): using experimentally produced respirable aerosol having aerodynamic diameter <5 microns.

Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

Sensitization: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Numerical measures of toxicity:

LD₅₀ Oral:

>10,000 mg/kg (rat)

LD₅₀ Dermal:

>9,400 mg/kg (rabbit)

LC₅₀ Inhalation:

0.49 mg/l (rat)

ATE - Inhalation

1.5 mg/l

(dusts and mists)

Carcinogenicity:

Ingredient(s)	IARC	OSHA	NTP
4,4'-Diphenylmethane diisocyanate	3*		
Polymeric Diphenylmethane Diisocyanate	3*		

^{*}Not classifiable as to its carcinogenicity to humans



12. ECOLOGICAL INFORMATION

Ecotoxicity:

Endpoint (Exposure)	Species	<u>Result</u>	Endpoint (Exposure)	<u>Species</u>	<u>Result</u>
EC50 (72 hours)	Algae	>1640 mg/l	LC50 96 hours	Fish	>1000 mg/l
EC50 (3 hours)	Bacteria	>100 mg/l	Chronic NOEC 21 days	Daphnia	>=10 mg/l
EC50 (24 hours)	Daphnia	>1000 mg/l	Chronic NOECr 72 hours	Algae	1640 mg/l
LC0 96 hours	Fish	>1000 mg/l		-	

Persistence and Degradability: Not biodegradable.

Bioaccumulation: Low potential.

<u>Mobility in Soil:</u> By considering the production and use of the substance, it is unlikely that significant environmental exposure in the air or water will arise. Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations.

Contaminated Packaging: Do not re-use empty containers.

RCRA Hazard Class (undiluted product): Discarded product is not a hazardous waste under RCRA, 40 CFR 261, when disposed of in its purchased form.

14. TRANSPORT INFORMATION

DOT: Single containers less than 5,000 pounds are not regulated.

TDG: Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

<u>DOT (Ground) Bill of Lading Description:</u> Not regulated. IMDG (Ocean) Bill of Lading Description: Not regulated.

15. REGULATORY INFORMATION

International Inventories at CAS# Level:

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations<u>:</u>

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

RIGHT TO KNOW (RTK):

Ingredient(s)	CAS#	MARTK	NJRTK	PARTK	RIRTK
4,4'-Diphenylmethane diisocyanate	101-68-8	X	X	X	X



15. REGULATORY INFORMATION

CERCLA/ SARA:

Ingredient(s)	CAS#	Weight %	CERCLA/SARA RQ (lbs.)	Section 302 TPQ (lbs.)	Section 313
4,4'-Diphenylmethane diisocyanate	101-68-8	36 - 42	5,000	None	Category Code N120
Polymeric Diphenylmethane	9016-87-9	60-100		None	Category
Diisocyanate	1				Code N120

Ingredient(s)	CAS#	CAA HAP	CAA ODS	CWA Priority Pollutants
4,4'-Diphenylmethane diisocyanate	101-68-8	X		

SARA 311/312 Hazard Categories:

Immediate:

Delayed: X

Fire: - Reactivity: -

Sudden Release of Pressure:

Canadian Regulations:

CEPA DSL: All components are listed or exempted.

16. OTHER INFORMATION

NFPA:

Health:

2

Flammability:

1

Instability:

1

Special Hazard: None

0=Minimal

1=Slight

2=Moderate

3=High

4=Extreme

Version Number: 1

Preparation date: 2015-03-25

SDS Code: M-67

Reason for revision: Not Applicable.

Prepared by: NAPCRA

Additional advice: Not applicable.

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SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, European Union CLP EC 1272/2008, Australian NOHSC, the Korean ISHA (Notice 2009-68), Singapore SS586 - 2: 2008 and SS 86 - 3: 2008 Standards, Chinese GB 20576 - GB 20602-2006, Japanese JIS Z7250, Taiwanese Standards and the Global Harmonization Standard, and requirements under Chemical Control Regulations of Argentina, Chile, Colombia, Costa Rica, Panama, Honduras, Venezuela, Uruguay, Peru and Paraguay.

• ART I What is the material and what do I need to know in an emergency?

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

TRADE NAME/IDENTIFICATION OF THE MIXTURE: K100G and K100MG

SYNONYMS:

None

CHEMICAL NAME/FAMILY:

Primary Alcohol/Aliphatic Glycol/Secondary Amine/Alkenoic Acid Mixture

RELEVANT USES of the SUBSTANCE:

Diesel Fuel Treatment

USES ADVISED AGAINST:

Other than Relevant Use

COMPANY/UNDERTAKING IDENTIFICATION: U.S. SUPPLIER/MANUFACTURER'S NAME:

KINETIC FUEL TECHNOLOGY, INC.

ADDRESS:

1205 Balmer Road Youngstown, NY 14174

BUSINESS PHONE/GENERAL SDS INFORMATION: 1-716-745-1461 (Monday thru Friday 8 a.m. to 5 p.m., EST)

EMERGENCY PHONE (U.S./Canada/Puerto Rico):

United States/Canada/Puerto Rico: 1-800/424-9300 (Chemtrec) [24-hrs]

EMERGENCY PHONE (OUTSIDE U.S.):

International: 01-703-527-3887 (Chemtrec) [24-hours]

www.k100fueltreatment.com

WEBSITE:

NOTE: ALL United States Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, Canadian WHMIS [Controlled Products Regulations] and Global Harmonization Standard required information is included in appropriate sections based on the U.S. ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the countries listed above.

2. HAZARD IDENTIFICATION

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION: Classified in accordance with Global Harmonization Standard under CLP Regulation (EC) 1272/2008, Japanese JIS Z7253: 2012 and Singapore Standards. For additional information on classification under (67/548/EEC), see below. For information on Korean ISHA and New Zealand HSNO classification, see below.

Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Toxicity Cat. 4, Skin Irritation Cat. 2, Eye Damage Cat. 1B, STOT (Inhalation-Irritation) SE Cat. 3, STOT (Inhalation-Narcotic Effect) SE Cat. 3, STOT (Ingestion-Eye) SE Cat. 1

Signal Word: Danger

Hazard Statement Codes: H226, H302 + H312 + H332, H315, H318, H335, H336, H371

ORGANISMS

Precautionary Statement Codes: P210, P233, P240, P241, P242, P243, P260, P264, P270, P271, P280, P370 + P378, P303 + P361 + P353, P301 + P312, P330, P302 + P352, P332 + P313, P362 + P364, P304 + P340, P305 + P351 + P338, P310, P321, P403 + P233 + P235, P405, P501

Hazard Symbols/Pictograms: GHS02, GHS05, GHS07, GHS08









EU 67/58/EEC LABELING AND CLASSIFICATION: This substance meets the classification of hazardous, as defined by the European Union Council Directive 67/548/EEC or subsequent Directives. This is a self-classification.

Classification: Flammable, Harmful, Irritant

Risk Phrases: R10, R20/21/22, R68/20/21/22, R41, R37/38, R67

ACT

(HNSO)

Safety Phrases: S1/2, S8, S16, S23, S24/25, S26, S36/37/39, S45

Symbols: F, Xn/Xi





NEW

KOREAN ISHA (Notice 2009-68) LABELING AND CLASSIFICATION: Classified in accordance with ISHA Notice 2009-68. Under ISHA, NO differences in classification are applicable.

NEW ZEALAND HSNO COP 8-1 09-06: This product is an article and is not required to be classified under HSNO regulations. See Section 16 for any component-required classification.

HAZARDOUS ZEALAND SUBSTANCES and **CLASSIFICATION:**

Product Group Standard: Not Otherwise Classified, Subsidiary Hazard Classification: 3.1C; Flammable Liquids: medium hazard. 6.1D (Oral, Dermal, Inhalation): Acutely toxic. 6.3A: Irritating to the skin. 6.8B: Suspected human reproductive or developmental toxicants. 6.9A (Inhalation): Toxic to human target organs or systems. 6.9B

(Oral): Harmful to human target organs or systems. 8.3A: Corrosive to ocular tissue. 9.3C: Harmful to terrestrial vertebrates.

See Section 16 for full text of Classification

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Product Description: This product is clear yellow, combustible liquid with a mild ether or sweet odor. Health Hazards: This product may be harmful by inhalation, ingestion or by skin absorption. Inhalation and ingestion can cause central nervous system effects. Eye contact may cause severe irritation. Skin contact, especially if prolonged, may cause dermatitis. Ingestion may result in aspiration and damage to the lungs.

EFFECTIVE DATE: MAY 23, 2014 K100G & K100MG SDS



2. HAZARD IDENTIFICATION (Continued)

EMERGENCY OVERVIEW (continued): Health Hazards (continued): Due to the presence of the Primary Alkyl Alcohol, severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 8-24 hour symptom-free period if ingested. Vapor may produce temporary blurring of vision with a general bluish or grayish haze and the appearance of halos around lights. Components are suspect reproductive toxins. Flammability Hazards: This product is combustible. When involved in a fire, this material may decompose and produce irritating vapors and toxic compounds (including carbon oxides, nitrogen oxides, ammonia, peroxides and formaldehyde). Reactivity Hazards: This product is not reactive. Environmental Hazards: This product may cause harm if released to the environment. Emergency Considerations: Emergency responders should wear appropriate protection, including fire protective equipment for situation to which they respond.

3. COMPOSITION and INFORMATION ON INGREDIENTS

Chemical Name	CAS#	European EINECS #	Japanese MITI/ENC #	Korean ECL #	New Zealand NZIoC #	% w/w	LABEL ELEMENTS EU Classification (67/548/EEC) GHS & EU Classification (1272/2008) Korean ISHA Classification
Ethylene Glycol Monobutyl Ether	111-76-2	203-905-0	109 / 2-407, 2-2424	KE-04134	HSR001154	30-45%	EU 67/548 Classification: HARMFUL, IRRITANT Risk Phrase Codes: R20/21/22, R36/38 GHS & EU CLP 1272/2008, KOREAN ISHA Classification: Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Cat. 4, Eye Imitation Cat. 2, Skin Imitation Cat. 2 Hazard Statement Codes: H302 + H312 + H332, H319, H315´
n-Butyl Alcohol	71-36-3	200-751-6	124 / 2-3049	KE-03802	HSR001096	30-40%	EU 67/548 Classification: Harmful Risk Phrase Codes: R10, R22, R37/38, R41, R67 GHS & EU CLP 1272/2008, KOREAN ISHA Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Eye Damage Cat. 1, Skin Irritation Cat. 2, STOT (Inhalation-Irritation) SE Cat. 3, STOT (Inhalation-Narcotic Effect) SE Cat. 3 Hazard Statement Codes: H226, H302, H318, H315, H335, H336
Primary Alkyl Alcohol			Proprietary			15-20%	EU 67/548 Classification: Flammable, Toxic Risk Phrase Codes: R11, R23/24/25, R39/23,24,25 GHS & EU CLP 1272/2008, KOREAN ISHA Classification: Flammable Liquid Cat. 2, Acute Oral Toxicity Cat. 3, Acute Dermal Toxicity Cat. 3, Acute Inhalation Toxicity Cat. 3, STOT (Ingestion-Eye) SE Cat. 1 Hazard Statement Codes: H225, H301 + H311 + H331, H370
Alkenoic Acid			Proprietary			5-10%	SELF-CLASSIFICATION EU 67/548 Classification: Irritant Risk Phrase Codes: XI GHS & EU CLP 1272/2008, KOREAN ISHA Classification: Skin Irritation Cat. 2 Hazard Statement Codes: H315
Cyclic Secondary Amine			Proprietary			3-7%	EU 67/548 Classification: Flammable, Corrosive Risk Phrase Codes: R10, R20/21/22, R34 GHS & EU CLP 1272/2008, KOREAN ISHA Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Toxicity Cat. 4, Skin Corrosion Cat. 1B Hazard Statement Codes: H226, H302 + H312 + H332, H314

See Section 16 for full text of classification. See Section 15 for information on other country inventory listing of components, as applicable

PART II What should I do if a hazardous situation occurs?

4 FIRST-AID MEASURES

PROTECTION OF FIRST AID RESPONDERS: Rescuers should be taken for medical attention if necessary. Remove or cover gross contamination to avoid exposure to rescuers.

ESCRIPTION OF FIRST AID MEASURES: Persons developing hypersensitivity reactions should receive medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Take a copy of label and SDS to physician or health professional with the contaminated individual.

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4 FIRST-AID MEASURES (Continued)

DESCRIPTION OF FIRST AID MEASURES (continued):

Skin Exposure: Wash gently and thoroughly with water for 20 minutes or until chemical is removed. While under running water, remove contaminated clothing, shoes and leather goods. Seek medical attention if adverse effect persists after decontamination.

Eye Exposure: If this product contaminates the eyes, rinse eyes under gently running water. Use sufficient force to open eyelids and then "roll" eyes while flushing. Minimum flushing is for 20 minutes. The contaminated individual must seek medical attention if any adverse effect continues after rinsing.

Inhalation: If vapors of this product are inhaled, causing irritation, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if adverse effect continues after removal to fresh air.

Ingestion: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. Lean victim forward to avoid aspiration into the lungs if vomiting occurs naturally. If victim is convulsing, maintain an open airway and obtain immediate medical attention. If heart or breathing has stopped, trained persons should administer cardiopulmonary resuscitation (CPR) until medical personnel arrive.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory or skin conditions may be aggravated by repeated exposure to this product.

IMPORTANT SYMPTOMS AND EFFECTS: See Sections 2 (Hazard Identification) and 11 (Toxicological Information).

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT (Cleveland open cup): 40.5°C (105°F) AUTOIGNITION TEMPERATURE: Not established.

FLAMMABLE LIMITS (in air by volume, %): LEL: 1.1% UEL: 10.6%

FIRE EXTINGUISHING MEDIA: In the event of a fire, use suppression media for surrounding materials (e.g., water spray, dry chemical, carbon dioxide, foam, any "ABC" class extinguisher).

UNSUITABLE FIRE EXTINGUISHING MEDIA: Halons.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE: This product is combustible. When involved in a fire, this material may decompose and produce irritating vapors and toxic compounds (including carbon oxides). Vapors can travel a long distance to an ignition source and flash back.

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: Vapors from this product may be ignited by static energy.

NFPA RATING
FLAMMABILITY

2

OTHER

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. In cause fire involving large volume of product, water may be ineffective to completely extinguish fire; however, water can be used to extinguish the fire when a number of hose streams are applied by experienced firefighters to sweep the flames off the surface of the burning liquid. Water can also be applied as a fine spray to absorb the heat of the fire and to cool exposed containers and materials, and can be used to extinguish the fire when hose streams are applied by experienced firefighters trained in fighting all types of combustible liquid fires. Water can also be applied as a fine spray to absorb the heat of the fire and to cool exposed containers and materials, and can be used to extinguish the fire when hose streams are applied by experienced firefighters trained in fighting all types of combustible liquid fires. Water spray can be used to dilute spills to raise the flash point and to flush spills away from ignition sources. Solid streams of water may be ineffective and spread material. If this liquid is involved in a fire, fire runoff water should be contained to prevent possible environmental damage. If necessary, decontaminate fire-response equipment with soap and water solution.

HAZCHEM CODE (AUSTRALIA): 3Y

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. Use only non-sparking tools and equipment during the response. Call CHEMTREC (1-800-424-9300) for emergency assistance. Or if in Canada, call CANUTEC (613-996-6666). The atmosphere must at least 19.5 percent Oxygen before non-emergency personnel can be allowed in the area without Self-Contained Breathing Apparatus and fire protection.

PERSONAL PROTECTIVE EQUIPMENT: Proper protective equipment should be used. Use only non-sparking tools and equipment,

Small Spills: Wear rubber gloves, splash goggles, and appropriate body protection.

arge Spills: Minimum Personal Protective Equipment should be rubber gloves, rubber boots, face shield, and Tyvek suit. Minimum level of personal protective equipment for releases in which the level of oxygen is less than 19.5% or is unknown must be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard hat, and Self-Contained Breathing Apparatus.

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6. ACCIDENTAL RELEASE MEASURES (Continued)

METHODS FOR CLEAN-UP AND CONTAINMENT:

Small Spills: Carefully absorb spill using polypads or other non-reactive absorbent. Place spilled material in appropriate container for disposal, sealing tightly. Remove all residue before decontamination of spill area.

Large Spills: Access to the spill area should be restricted. For large spills, dike or otherwise contain spill and absorb spill with polypads

or other non-reactive absorbent material. Monitor area for combustible vapor levels.

All Spills: Place all spill residue in a double plastic bag or other containment and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.

REFERENCE TO OTHER SECTIONS: See information in Section 8 (Exposure Controls - Personal Protection) and Section 13 (Disposal Considerations) for additional information.

PART III How can I prevent hazardous situations from occurring?

7. HANDLING and USE

PRECAUTIONS FOR SAFE HANDLING: All employees who handle this material should be trained to handle it safely. Minimize all exposure to this substance. As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing this product. Keep away from heat, sparks, and other sources of ignition. Use non-sparking tools. Bond and ground containers during transfers of material. Containers of this product must be properly labeled.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Containers should be separated from oxidizing materials by a minimum distance of 20 ft. or by a barrier of noncombustible material at least 5 ft. high having a fire-resistance rating of at least 0.5 hours. Storage areas should be made of fire resistant materials. Local Fire Departments should be notified of the storage of this product on site. Storage and processing areas of this product should be identified with a NFPA 704 placard (diamond) large enough to be seen from a distance. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Have appropriate extinguishing equipment in the storage area (such as sprinkler systems or portable fire extinguishers). Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Refer to NFPA 30. Flammable and Combustible Liquids Code, for additional information on storage.

SPECIFIC END USE(S): This product is a diesel fuel additive. Follow all industry standards for use of this product. PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Decontaminate equipment thoroughly, before maintenance begins. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/CONTROL PARAMETERS:

Ventilation and Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits provided in this section, if applicable. Use a non-sparking, grounded, explosionproof ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside, taking necessary precautions for environmental protection. Ensure eyewash/safety shower stations are available near where this product is used. Occupational/Workplace Exposure Limits/Guidelines:

CHEMICAL	CHEMICAL CAS# NAME		EXPOSURE LIMITS IN AIR										
NAME		ACGII	1-TLVs	OSHA	A-PELs	NIOS	H-RELs	NIOSH	OTHER				
]	TWA	STEL	TWA	STEL	TWA	STEL	IDLH					
		ррт	_ ррт	ρpm	_ppm	ppm	ррт	ppm	, ppm				
n-Butyl Alcohol	71-36-3	20	NE.	100	50 (ceiling) [Vacated 1989 PEL]	NE	50 [skin] (ceiling)	1400 (based on 10% of LEL)	DFG MAKs: TWA = 100 PEAK = 1*MAK 15 min. average value, 1-hr Interval, 4 per shift DFG MAK Pregnancy Risk Classification: C Carcinogen: EPA-D				

NE = Not Established. See Section 16 for Definitions of Terms Used.



EXPOSURE LIMITS/CONTROL PARAMETERS (continued):

Occupational/Workplace Exposure Limits/Guidelines (continued):

CHEMICAL NAME	CAS#					EXP	OSURE LIA	MTS IN AIR	
NOTIFIE .		ACGII	1-TLVs	OSH/	N-PELs	NIOS	H-RELs	NIOSH	OTHER
		TWA	STEL	TWA	STEL	TWA	STEL	IDLH	
	<u> </u>	ppm_	ppm	ррт	ppm	ppm_	ppm	ppm	ррт
Ethylene Glycol Monobutyl Alcohol	111-76-2	20	NE	50 (skin) 25 (Vacated 1989 PEL)	300 (Vacated 1989 PEL)	5 (skin)	NE	700	DFG MAKs: TWA = 10 (sum of the concentrations of) [skin] PEAK = 2*MAK 15 min. average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: C Carcinogen: EPA-CBD, EPA-C, IARC-3, MAK-4, TLV-A3
Proprietary Primary Alcohol		200 (skin)	250 (skin)	200	250 (Vacated 1989 PEL)	200 (skin)	260 (skin)	6000	DFG MAKs: TWA = 200 (skin) PEAK = 4•MAK 15 min. average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: C
Proprietary Cyclic S Amine		20 (skin)	NE	20 (skin)	30 (Vacated 1989 PEL)	20 (skin)	30 (skin)	1400 (based on 10% of LEL)	DFG MAKs: TWA = 10 PEAK = 2 • MAK 15 min. average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: D Carcinogen: IARC-3, TLV-A4
Proprietary Alkenoi	c Acid	NE	NE	NE	NE	NE	NE	NE	Carcinogen: MAK-3

NE = Not Established. See Section 16 for Definitions of Terms Used.

Workplace Exposure Standards (New Zealand): None established. Refer to the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations 2001 (Regulations 29-30).

Exposure Standards Outside the Workplace (New Zealand): Currently, there are no other exposure limits, such as TELS and EELS (See Section 12 [Ecological Information] for EEL information) established for components of this product.

Other International Exposure Limits: The following additional international exposure limits are in force some components. Exposure limits change and appropriate authorities should be in individual countries should be contacted to determine if more recent information is available.

n-BUTYL ALCOHOL:

Head Te ALCO MOL:

Australia: CL = 50 ppm (152 mg/m³), JUL 2008

Belgium: TWA = 50 ppm (154 mg/m³), Skin, MAR 2002

Denmark: CL = 50 ppm (150 mg/m³), skin, MAY 2011

Finland: TWA = 50 ppm (150 mg/m³), STEL = 75 ppm (230 mg/m³), skin, NOV 2011

France: VLE = 50 ppm (150 mg/m³), FEB 2006

Remany: MAK = 100 ppm (310 mg/m²), 2011

Hungary: TWA = 45 mg/m², STEL = 90 mg/m², Skin, SEP 2000

India: TWA = 50 ppm (150 mg/m²), Skin, JAN 1993

Iceland: STEL = 50 ppm (150 mg/m²), skin, NOV 2011

Japan: CL = 50 ppm (150 mg/m³), skin, MAY 2012 Korea: CL = 50 ppm (150 mg/m³), 2006

Norea: CL = 50 ppm (150 mg/m²), 2006

Mexico: Peak = 50 ppm (150 mg/m²) (skin), 2004

New Zealand: CL = 50 ppm (150 mg/m²), skin, JAN 2002

Norway: TWA = 25 ppm (75 mg/m³), JAN 1999

Peru: TWA = 20 ppm (61 mg/m³); STEL = 50 ppm (152 mg/m³), JUL 2005

The Philippines: TWA = 100 ppm (300 mg/m³), JAN 1993

Poland: TWA = 50 mg/m³, STEL 140 mg/m³, JAN 1999

Russia: TWA = 10 mg/m³, STEL 30 mg/m³, JUN 2003

Swedon: TWA = 15 mg/m², STEL 30 mg/m³, JUN 2003

Sweden: TWA = 15 ppm (45 mg/m³), CL = 30 ppm (90 mg/m³), Skin, JUN 2005 Switzerland: CL = 50 ppm (150 mg/m³), JAN 2011 Turkey: TWA = 100 ppm (300 mg/m²), JAN 1993

United Kingdom: STEL = 50 ppm (154 mg/m³), skin, OCT 2007
In Argentina, Bulgaria, Colombia, Jordan, Korea, New Zealand, Singapore, Vietnam,

ETHYLENE GLYCOL MONOBUTYL ETHER:

ETHYLENE GLYCOL MONOBUTYL ETHER:
Australia: TWA = 20 ppm (96.9 mg/m³), STEL = 50 ppm
Australia: TWA = 20 ppm (98.9 mg/m³), KZW = 40 ppm
Belgium: TWA = 20 ppm (98 mg/m³), MAR 2002
Belgium: STEL = 50 ppm (246 mg/m³), Skin, MAR 2002
Denmark: TWA = 20 ppm (98 mg/m³), Skin, MAY 2011
EC: TWA = 28 mg/m³ (20 ppm); STEL = 246 mg/m³ (50 ppm), skin, JUN 2000
Finland: TWA = 20 ppm (98 mg/m³), STEL = 20 ppm (250 mg/m³), skin, NOV 2011
France: VME = 2 ppm (9.8 mg/m³), VLE = 30 ppm (147.6 mg/m³), Skin, FEB 2006
Germany: MAK = 10 ppm (49 mg/m³), skin, 2011
Hungary: TWA = 98 mg/m³, STEL = 246 mg/m³, Skin, SEP 2000
Iceland: TWA = 20 ppm (100 mg/m³), STEL = 50 ppm (246 mg/m³), skin, NOV 2011
Korea: TWA = 25 ppm (120 mg/m³), skin, 2006

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):
Mexico: TWA = 26 ppm (120 mg/m³): STEL = 75 ppm (skin), 2004
The Netherlands: MAC-TGG = 100 mg/m³, Skin, 2003
New Zealand: TWA = 25 ppm (121 mg/m³), skin, JAN 2002
Norway: TWA = 20 ppm (100 mg/m³), JAN 1999
Peru: TWA = 20 ppm (97 mg/m³); STEL = 50 ppm (242 mg/m³), JUL 2005
The Philippines: TWA = 50 ppm (240 mg/m³), Skin, JAN 1993
Poland: MAC(TWA) = 100 mg/m³, MAC(STEL) = 360 mg/m³, JAN 1999
Russia: STEL = 5 mg/m³, JUN 2003
Sweden: TWA = 10 ppm (50 mg/m³): STEL = 20 ppm (100 mg/m³), Skin, JI

Sweden: TWA = 10 ppm (50 mg/m³); STEL = 20 ppm (100 mg/m³), Skin, JUN 2005 Switzerland: MAK-W = 10 ppm (49 mg/m³), KZG-W = 20 ppm (98 mg/m³), skin, JAN

Turkey: TWA = 50 ppm (240 mg/m³), JAN 1993 United Kingdom: TWA = 25 ppm (123 mg/m³); STEL = 50 ppm (246 mg/m²), skin, OCT 2007

In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam check ACGIH TLV

PRIMARY ALKYL ALCOHOL:

ARAB Republic of Egypt: TWA = 200 ppm (260 mg/m³), Skin, JAN 1993

Australia: TWA = 200 ppm (262 mg/m³), STEL = 250 ppm (328 mg/m³), JUL 2008

Austria: MAK-TMW = 200 ppm (260 mg/m³); KZW = 800 ppm (1040 mg/m³), skin, 2007

Belgium: TWA = 200 ppm (266 mg/m³), MAR 2002 Belgium: STEL = 250 ppm (333 mg/m³), Skin, MAR 2002 Denmark: TWA = 200 ppm (260 mg/m³), skin, MAY 2011 EC: TWA = 260 mg/m³ (200 ppm), skin, FEB 2006

EC: TWA = 260 mg/m² (200 ppm), skin, FEB 2006 Finland: TWA = 200 ppm (270 mg/m³), STEL = 250 ppm (330 mg/m³), skin, NOV 2011 France: VME = 200 ppm (260 mg/m³), VLE = 1000 ppm (1300 mg/m³), FEB 2006 Germany: MAK = 200 ppm (270 mg/m³), 2011 Hungary: TWA = 260 mg/m³, STEL 1040 mg/m³, Skin, SEP 2000 Iceland: TWA = 200 ppm (260 mg/m³), skin, NOV 2011 Japan: OEL = 200 ppm (260 mg/m³), skin, MAY 2012 Korea: TWA = 200 ppm (260 mg/m³), STEL = 250 ppm (310 mg/m³), skin, 2006 Maxino: TWA = 200 ppm (260 mg/m³), STEL = 250 ppm (310 mg/m³), skin, 2006

Mexico: TWA = 200 ppm (260 mg/m³); STEL = 310 mg/m³ (250 ppm), 2004

The Netherlands: MAC-TGG = 260 mg/m³, Skin, 2003

New Zealand: TWA = 200 ppm (262 mg/m³); STEL = 250 ppm (328 mg/m³), skin, JAN

Norway: TWA = 100 ppm (130 mg/m3), JAN 1999

Peru: TWA = 200 ppm (262 mg/m³); STEL = 250 ppm (328 mg/m³), JUL 2005



EXPOSURE LIMITS/CONTROL PARAMETERS (continued):

International Exposure Limits (continued):

PRIMARY ALKYL ALCOHOL (continued):

PRIMARY ALKYL ALCOHOL (continues):
The Philippines: TWA = 200 ppm (260 mg/m³), JAN 1993
Poland: MAC(TWA) = 100 mg/m³, MAC(STEL) = 300 mg/m³, JAN 1999
Russia: TWA = 5 mg/m³, STEL 15 mg/m³, Skin, JUN 2003
Sweden: TWA = 200 ppm (250 mg/m³); STEL = 250 ppm (350 mg/m³), Skin, JUN

Switzerland: MAK-W = 200 ppm (260 mg/m3), KZG-W = 800 ppm (1040 mg/m3), skin,

JAN 2011

Thailand: TWA = 200 ppm (260 mg/m³), JAN 1993 Turkey: TWA = 200 ppm (260 mg/m³), JAN 1993

United Kingdom: TWA = 200 ppm (266 mg/m³); STEL = 250 ppm (333 mg/m³), skin, OCT 2007

In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam, check ACGIH TLV CYCLIC SECONDARY AMINE:

Australia: TWA = 20 ppm (71 mg/m³), JUL 2008
Australia: TWA = 10 ppm (36 mg/m³); KZW = 10 ppm (36 mg/m³), skin, 2007
Belgium: TWA = 10 ppm (36 mg/m²), MAR 2002
Belgium: STEL = 20 ppm (72 mg/m²), Skin, MAR 2002
Denmark: TWA = 10 ppm (36 mg/m³), skin, MAY 2011
EC: TWA = 36 mg/m² /10 cpm): STEL = 72 mg/m³ /20 ppm) FEB 2006

EC: TWA = 36 mg/m³ (10 ppm); STEL = 72 mg/m³ (20 ppm), FEB 2006 Finland: TWA = 10 ppm (36 mg/m³), STEL = 20 ppm (72 mg/m³), skin, NOV 2011 France: VME = 20 ppm (70 mg/m³), VLE = 30 ppm (105 mg/m³), FEB 2006

CYCLIC SECONDARY AMINE (continued):

Germany: MAK = 10 ppm (36 mg/m²), 2011 Hungary: TWA = 70 mg/m³, STEL = 70 mg/m³, Skin, SEP 2000

lceland: TWA = 10 ppm (36 mg/m³), STEL = 20 ppm (72 mg/m³), skin, NOV 2011 Korea: TWA = 20 ppm (70 mg/m³), STEL = 30 ppm (105 mg/m³), skin, 2006 Mexico: TWA = 20 ppm (70 mg/m³); STEL = 30 ppm (skin), 2004

The Netherlands: MAC-TGG = 36 mg/m³, Skin, 2003 New Zealand: TWA = 20 ppm (71 mg/m³), skin, JAN 2002

Norway: TWA = 20ppm (70 mg/m³), JAN 1999 Peru: TWA = 20 ppm (71 mg/m³), JUL 2005

The Philippines: TWA = 20 ppm (70 mg/m³), Skin, JAN 1993
Poland: MAC(TWA) = 70 mg/m³, MAC(STEL) = 100 mg/m³, JAN 1999
Russia: TWA = 0.5 mg/m³, STEL = 1.5 mg/m³, Skin, JUN 2003

Sweden: TWA = 10 ppm (35 mg/m²); STEL = 15 ppm (50 mg/m²), Skin, JUN 2005 Switzerland: MAK-W = 10 ppm (36 mg/m²), KZG-W = 20 ppm (72 mg/m³), skin, JAN

United Kingdom: TWA = 10 ppm (36 mg/m³); STEL = 20 ppm (72 mg/m³), skin, OCT

In Argentina, Bulgaria, Colombia, Jordan, Korea, New Zealand, Singapore, Vietnam check ACGIH TLV

ALKENOIC ACID:

Russia: STEL = 5 mg/m3, JUN 2003

PROTECTIVE EQUIPMENT: The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including U.S. Federal OSHA Respiratory Protection (29 CFR 1910.134), OSHA Eye Protection 29 CFR 1910.133, OSHA Hard Protection 29 CFR 1910.138, OSHA Foot Protection 29 CFR 1910.136 and OSHA Body Protection 29 CFR1910.132), equivalent standards of Canada (including CSA Respiratory Standard Z94.4-02, Z94.3-M1982, Industrial Eye and Face Protectors and CSA Standard Z195-02, Protective Footwear), standards of EU member states (including EN 529:2005 for respiratory PPE, CEN/TR 15419:2006 for hand/body protection, and CR 13464:1999 for face/eye protection), standards of Australia (including AS/NZS 1715:1994 for respiratory PPE, AS/NZS 4501.2:2006 for protective clothing, AS/NZS 2161.1:2000 for glove selection, and AS/NZS 1336:1997 for eye protection), or standards of Japan (including JIS T 8116:2005 for glove selection, JIS T 8150:2006 for respiratory PPE, JIS T 8147:2003 for eye protectors, and JIS T 8030:2005 for protective clothing). Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Maintain airborne contaminant concentrations below exposure limits listed in this section, if applicable. If respiratory protection is needed, use only protection authorized in applicable regulations. Oxygen levels below 19.5% are considered IDLH by U.S. OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). For additional information, the following U.S. NIOSH recommendations for respiratory protection for the n-Butyl Alcohol, Primary Alkyl Alcohol and Ethylene Glycol Monobutyl Ether comportents, are provided below to assist in respiratory protection equipment.

n-BUTYL ALCOHOL

CONCENTRATION Up to 1250 ppm:

RESPIRATORY PROTECTION

Any Supplied-Air Respirator (SAR) operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator (PAPR)

with organic vapor cartridge(s).

Up to 1400 ppm:

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s), or any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting facepiece and organic vapor cartridge(s), or any Self-Contained Breathing Apparatus (SCBA) with a full facepiece, or any SAR with a full facepiece.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressuredemand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-

demand or other positive-pressure mode.

Escape:

Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any appropriate escape-type, SCBA.

ETHYLENE GLYCOL MONOBUTYL ETHER

CONCENTRATION

RESPIRATORY PROTECTION

Up to 50 ppm: Up to 125 ppm: Any Chemical Cartridge Respirator with organic vapor cartridge(s), or any Supplied-Air Respirator (SAR).

Any SAR operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator (PAPR) with organic vapor

Up to 250 ppm:

Any Chemical Cartridge Respirator with a full facepiece and organic vapor cartridge(s), or any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting facepiece and organic vapor cartridge(s), or any Self-Contained Breathing Apparatus (SCBA) with a full facepiece, or any SAR with a full facepiece.

Up to 700 ppm:

Any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Emergency or Planned Entry Into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressuredemand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-

pressure mode.

Escape:

Any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any appropriate escape-type, SCBA.

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PROTECTIVE EQUIPMENT (continued):

Respiratory Protection (continued):

PRIMARY ALKYL ALCOHOL

CONCENTRATION RESPIRATORY PROTECTION Up to 2000 ppm: Any Supplied-Air Respirator (SAR).

Up to 5000 ppm:

Any SAR operated in a continuous-flow mode.

Any SAR that has a tight-fitting facepiece and is operated in a continuous-flow mode, or any Self-Contained Breathing Up to 6000 ppm:

Apparatus SCBA with a full facepiece, or any SAR with a full facepiece.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressuredemand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-

pressure mode.

Escape: Any appropriate escape-type, SCBA.

Eye Protection: Splash goggles or safety glasses. If necessary, refer to appropriate regulations.

Hand Protection: Wear gloves appropriate for use with glycol ethers and alcohols. Use triple gloves for spill response, as stated in

Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to appropriate regulations.

Body Protection: If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment) or appropriate Standards of Canada. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection under appropriate regulations.

9. PHYSICAL and CHEMICAL PROPERTIES

FORM: Liquid. COLOR: Yellowish.

MOLECULAR FORMULA: Mixture. **MOLECULAR WEIGHT:** Mixture.

ODOR: Mild, sweet, ether-like.

0.011 ppm

BOILING POINT: 123°C (253.5°F)

EVAPORATION RATE (nBuAc = 1): 0.41

VAPOR PRESSURE (air = 1): 4.0

SPECIFIC GRAVITY @20°C (water = 1): 0.85

ODOR THRESHOLD: For Cyclic Secondary Amine:

FREEZING/MELTING POINT: Not established.

SOLUBILITY IN WATER: 100%

VAPOR DENSITY: 2,71 pH: Not established.

COEFFICIENT WATER/OIL DISTRIBUTION: Not available for product.

HOW TO DETECT THIS SUBSTANCE (identification properties): The appearance and odor of this product can be a distinguishing characteristic to identify it in event of accidental release.

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: This product is stable and is not reactive.

DECOMPOSITION PRODUCTS: Combustion: Irritating fumes and toxic gases (e.g., carbon oxides, nitrogen oxides, ammonia, hydrogen cyanide, peroxides and formaldehyde). Hydrolysis: None.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This material may be incompatible with strong oxidizing agents (e.g. bromine, chlorine, chromium trioxide, nitric acid, perchlorates or sodium hypochlorite), hydrogen peroxide, metals (e.g. powdered aluminum or magnesium), carbon tetrachloride and metals (e.g. aluminum, magnesium or zinc), alkali metals (e.g. sodium or potassium), acetyl bromide, dichloromethane, perchloric acid or metal perchlorates (e.g. barium perchlorate or lead perchlorate), potassium tert-butoxide, alkylaluminum solutions, beryllium hydride, cyanuric chloride, isocyanates or phosphorus (iii) oxide (tetraphosphorus hexaoxide), diethyl zinc, mineral acids (e.g. sulfuric acid), organic acids, acid anhydrides, acid chlorides or sodium hydroxide and chloroform, cellulose nitrate, nitromethane, nitrites, nitrous acid, nitrogen oxides, aluminum, halogens (e.g. bromine or chlorine), lithium aluminum hydride, isocyanates (e.g. toluene diisocyanate, hexamethylene diisocyanate or methyl isocyanate).

POSSIBILITY OF HAZARDOUS REACTIONS/POLYMERIZATION: Will not occur. CONDITIONS TO AVOID: Avoid heat, light, and contact with incompatible chemicals.

PART IV Is there any other useful information about this material?

11. TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of occupational exposure are expected to be by inhalation, skin and eye contact. The symptoms of exposure to this product are as follows:

Inhalation: Inhalation of mists, sprays, fumes or vapors from this product may cause central nervous system effects, including incoordination, dizziness, drowsiness, headache, nausea and vomiting. In addition, inhalation of high concentration may cause corrosive effects such as a burning sensation, sore throat, runny nose, coughing, wheezing, shortness of breath and difficulty breathing. In severe cases, potentially fatal lung injury (pulmonary edema) may result. The symptoms of pulmonary edema, such as chest pain and shortness of breath, may be delayed up to 24 hours after exposure. Due to the high level of Ethylene Glycol Monobutyl Ether, short-term exposure by inhalation may cause adverse blood system effects (red blood cell fragility, hemoglobinuria) at low concentrations, based on animal tests.

Contact with Skin or Eyes: Contact with the liquid and the eyes will cause severe irritation. Vapor contact will cause irritation, including stinging, redness and tearing. Vapor contact may also produce temporary blurring of vision with a general bluish or

K100G & K100MG SDS **EFFECTIVE DATE: MAY 23, 2014** grayish haze and the appearance of halos around lights. Prolonged eye contact may cause damage to tissue.



11. TOXICOLOGICAL INFORMATION (Continued)

SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE (continued):

Contact with Skin or Eyes (continued): |Skin contact may be irritating. Prolonged skin contact may cause defatting of the skin and dermatitis and may cause severe irritation, burns, blistering and permanent scarring.

Skin Absorption: Components of this product can be absorbed through the skin and may cause harmful effect if a large area of skin is involved or contact is prolonged. Symptoms may include adverse central nervous system effects described under 'Inhalation' and 'Ingestion' and adverse blood system effects.

Ingestion: Ingestion is not a significant route of occupational exposure. Ingestion of this product can cause adverse central nervous system effects, with symptoms such as dizziness, incoordination, drowsiness, headache, nausea and vomiting. Due to the presence of the Primary Alkyl Alcohol, severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 8-24 hour symptom-free period if ingested. Due to the high level of Ethylene Glycol Monobutyl Ether, ingestion may cause adverse blood system effects (red blood cell fragility, hemoglobinuria) at low concentrations, based on animal tests. Ingestion of products containing glycol ethers may cause harm to kidneys. Aspiration into the lungs is a potential hazard after ingestion.

Injection: Though not anticipated to be a significant route of exposure for this product, injection (via punctures or lacerations by contaminated objects) may cause redness at the site of injection.

IRRITANCY OF PRODUCT: This product may mildly to moderately irritate contaminated tissue.

SENSITIZATION OF PRODUCT: No component of this product is known to cause human skin or respiratory sensitization. The Alkenoic Acid component has been shown to cause skin sensitization in a laboratory animal assay in animals.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay

Terms. Exposure to this product may cause the following health effects:

Acute: This product may be harmful by inhalation, ingestion or if absorbed via intact skin. Ingestion may be fatal or cause significant eye effects or blindness. Inhalation of high concentration may be fatal or may cause adverse blood effects. Eye contact may cause severe irritation. Skin contact may be irritating.

Chronic: Prolonged or chronic skin contact may cause dermatitis. Long-term occupational exposure (inhalation and dermal) to ethylene glycol ethers, including Ethylene Glycol Monobutyl Ether, may be associated with increased oxalic acid loads, which can alter kidney function and may result in kidney stones.

TARGET ORGANS:

Acute: Skin, eyes, respiratory system, central nervous system, blood, blood-forming system. Chronic: Skin, kidneys.

TOXICITY DATA: The following toxicity data are available for components of 1% concentration or greater. Due to the large amount of data for components, only available human data, LD50 (Oral-Rat or Mouse), LD50 (Skin-Rabbit or Rat), LC50 (Inhalation-Rat or Mouse), mutation data and irritation data are provided in this SDS. Contact Kinetic Fuel Technology for information on other data available.

n-BUTYL ALCOHOL:

Standard Draize Test (Eye-Human) 50 ppm

Standard Draize Test (Eye-Human) 990 ppm/1 hour Standard Draize Test (Skin-Human) 20 µL/20 minutes

TCLo (Inhalation-Human) 25 ppm: Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Sense Organs and Special Senses (Eye): conjunctive imtation; Lungs, Thorax, or Respiration: other changes

TDLo (Eye-Human) 72.5 mg/m3: Sense Organs and Special Senses (Eye): conjunctive initation

LDLo (Oral-Human) 428 mg/kg Standard Draize Test (Skin-Rabbit) 20 mg/24 hours: Moderate

Standard Draize Test (Eye-Rabbit) 2 mg/24 hours: Severe

Standard Draize Test (Eye-Rabbit) 1.62 mg: Severe

Standard Draize Test (Eye-Rabbit) 0.005 mL: Severe

LD_{so} (Oral-Rat) 790 mg/kg: Liver: fatty liver degeneration; Kidney/Ureter/Bladder: other changes; Blood: other changes

LD₅₀ (Oral-Rat) 4.36 gm/kg: Gastrointestinal: gastritis Liver: other changes; Blood:

hemorrhage LD₅₀ (Oral-Rat) 0.79 gm/kg

LD₅₀ (Oral-Mouse) 100 mg/kg LD₅₀ (Skin-Rabbit) 3400 mg/kg

ETHYLENE GLYCOL MONOBUTYL ETHER:

Open Imitation Test (Skin-Rabbit) 500 mg: Mild

Standard Draize Test (Eye-Rabbit) 100 mg: Severe

Standard Draize Test (Eye-Rabbit) 100 mg/24 hours: Moderate LDLo (Oral-Human) 143 mg/kg

TDLo (Oral-Woman) 600 mg/kg: Behavioral: coma; lungs, Thorax, or Respiration: dyspnea; Nutritional and Gross Metabolic: metabolic acidosis

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):

TDLo (Oral-Woman) 7813 µL/kg: Behavioral: coma; Vascular: BP lowering not characterized in autonomic section; Nutritional, and Gross Metabolic: metabolic acidosis

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

2*

2

BODY

SEE SECTION 8

(BLUE)

(RED)

HEALTH HAZARD

EYES

ভ

FLAMMABILITY HAZARD

RESPIRATORY

SEE SECTION 8

PHYSICAL HAZARD (YELLOW)

PROTECTIVE EQUIPMENT

For Routine Industrial Use and Handling Applications

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate

3 = Serious 4 = Severe * = Chronic hazard

HANDS

TCLo (Inhalation-Human) 195 ppm/8 hours: Gastrointestinal: nausea or vomiting

TCLo (Inhalation-Human) 100 ppm: Sense Organs and Special Senses (Offaction): effect, not otherwise specified; Sense Organs and Special Senses (Eye): effect, not otherwise specified; Lungs, Thorax, or Respiration: other changes

TCLo (Inhalation-Human) 1500 mg/m3: Sense Organs and Special Senses (Eye): conjunctive irritation; Liver: other changes; Kidney/Ureter/Bladder: other changes

LC₅₀ (Inhalation-Rat) 2900 mg/m³/7 hours: Liver; other changes; Kidney/Ureter/Bladder:

other changes; Blood: other hemolysis with or without anemia
(Inhalation-Mouse) 3380 mg/m³/7 hours: Liv

LC₅₀ (Inhalation-Mouse) 3380 mg/m³/7 hours: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia LC₅₀ (Inhalation-Mouse) 700 ppm/7 hours: Behavioral: analgesia; Lungs, Thorax, or Respiration: dyspnea; Kidney/Ureter/Bladder: hematuria

LD₅₀ (Óral-Rat) 470 mg/kg

LD_{so} (Oral-Rat) 917 mg/kg: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia

LD₅₀ (Oral-Mouse) 1230 mg/kg: Behavioral: attered sleep time (including change in righting reflex), somnolence (general depressed activity); Skin and Appendages: hair LD₅₀ (Oral-Mouse) 1167 mg/kg: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia

LD_{so} (Skin-Rabbit) 220 mg/kg

Mutation in Microorganisms (Bacteria-Salmonella typhimurium) 19 µmol/plate



11. TOXICOLOGICAL INFORMATION (Continued)

TOXICITY DATA (continued):

PRIMARY ALKYL ALCOHOL:
TDLo (Oral-Man) 3571 μL/kg: Sense Organs and Special Senses (Eye): visual field

changes; Lungs, Thorax, or Respiration: dyspnea; Blood; other changes

TDLo (Oral-Man) 9450 µL/kg: Sense Organs and Special Senses (Eye): mydriasis (pupillary dilation); Behavioral: general anesthetic; Nutritional and Gross Metabolic; body temperature decrease

TDLo (Oral-Man) 3429 mg/kg: Sense Organs and Special Senses (Eye): visual field changes

TDLo (Oral-Woman) 4 gm/kg: Sense Organs and Special Senses (Eye): visual field changes; Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal: nausea or

LDLo (Oral-Man) 6422 mg/kg: Brain and Coverings: changes in circulation (hemorrhage, thrombosis, etc.); Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal: nausea or

LDLo (Oral-Woman) 10 mL/kg: Lungs, Thorax, or Respiration: respiratory depression; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: multiple enzyme effects; Gastrointestinal: changes in structure or function of endocrine

LDLo (Oral-Human) 428 mg/kg: Behavioral: headache; Lungs, Thorax, or Respiration: other changes

LDLo (Oral-Human) 143 mg/kg: Sense Organs and Special Senses (Eye): optic nerve neuropathy; Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal: nausea or

LDLo (Unreported-Man) 868 mg/kg

TCLo (Inhalation-Human) 86,000 mg/m3: Sense Organs and Special Senses (Eye): lacrymation; Lungs, Thorax, or Respiration: cough, other changes

TCLo (Inhalation-Human) 300 ppm: Sense Organs and Special Senses (Eye): visual field changes; Behavioral: headache; Lungs, Thorax, or Respiration: other changes Standard Draize Test (Skin-Rabbit) 20 mg/24 hours: Moderate

Standard Draize Test (Eye-Rabbit) 40 mg: Moderate

Standard Draize Test (Eye-Rabbit) 100 mg/24 hours: Moderate LD₅₀ (Oral-Rat) 5600 mg/kg

LD₅₀ (Oral-Mouse) 7300 mg/kg LD₅₀ (Skin-Rabbit) 15,800 mg/kg

LC₅₀ (Inhalation-Rat) 64000 ppm/4 hours LC₅₀ (Inhalation-Rabbit) 81000 mg/m3/14 hours

DNA Inhibition (Human Lymphocyte) 300 mmol/L

PRIMARY ALKYL ALCOHOL (continued):

DNA Repair (Bacteria-Escherichia coli) 20 mg/well

Mutation in Microorganisms (Yeast-Saccharomyces cerevisiae) 12 pph Mutation in Microorganisms (Mouse Lymphocyte) 7900 mg/L

Sex Chromosome Loss and Non-Disjunction (Mold-Aspergillus nidulans) 56,000 ppm

Cytogenetic Analysis (Parenteral-Grasshopper) 3000 ppm

Cytogenetic Analysis (Parenterla-Grassnopper) 3000 ppm Cytogenetic Analysis (Oral-Mouse) 1 gm/kg Cytogenetic Analysis (Intraperitoneal-Mouse) 75 mg/kg DNA Damage (Oral-Rat) 10 µmol/kg Morphological Transformation (Mouse-Fibroblast) 0.01 mg/L/21 days CYCLIC SECONDARY AMINE:

Open Irritation Test (Skin-Rabbit) 500 mg: Moderate

Standard Draize Test (Eye-Rabbit) 2 mg; Severe

LC₅₀ (Inhalation-Rat) 8000 ppm/8 hours

LC₅₀ (Inhalation-Mouse) 1320 mg/m³/2 hours: Sense Organs and Special Senses (Eye): lacrymation; Behavioral: ataxia; Lungs, Thorax, or Respiration; cyanosis

LC₅₀ (Inhalation-Mouse) 12,000 mg/m³: Behavioral: alteration of classical conditioning

LC₅₀ (Inhalation-Mouse) 1.35 gm/m

LD₅₀ (Oral-Rat) 1738 mg/kg: Kidney/Ureter/Bladder: changes in blood vessels or in circulation of kidney

LD₅₀ (Oral-Mouse) 525 mg/kg: Behavioral: sleep, somnolence (general depressed

activity) LD₅₀ (Oral-Mouse) 1200 mg/kg

Morphological Transformation (Mouse-Fibroblast) 125 mg/L

Morphological Transformation (Mouse Lymphocyte) 1 uL/L

Mutation in Mammalian Somatic Cells (Mouse Lymphocyte) 1 gm/L

Sister Chromatid Exchange (Hamster Ovary) 160 mg/L

Cytogenetic Analysis (Inhalation-Rat) 0.07 mg/L/122 days-intermittent

ALKENOIC ACID:

Standard Draize Test (Skin-Human) 15 mg/3 days-intermittent: Moderate

Standard Draize Test (Eye-Rabbit) 100 mg: Mild

Open Imitation Test (Skin-Rabbit) 500 mg: Mild

LD_{so} (Oral-Rat) 25,000 mg/kg

LDs₀ (Oral-Mouse) 28,000 mg/kg Cytogenetic Analysis (Yeast-Saccharomyces cerevisiae) 100 mg/L Cytogenetic Analysis (Hamster Fibroblast) 2500 µg/L Unscheduled DNA Synthesis (Rectal-Mouse) 35 mg/kg

CARCINOGENIC POTENTIAL: Components of this product are listed by agencies tracking the carcinogenic potential of

chemical compounds, as follows: n-BUTYL ALCOHOL: EPA-D (Not Classifiable a to Human Carcinogenicity)

ETHYLENE GLYCOL MONOBUTYL ETHER: ACGIH TLV-A3 (Confirmed Animal Carcinogen); EPA-CBD (Cannot Be Determined); EPA-C (Possible Human Carcinogen); IARC-3 (Not Classifiable as to Carcinogenicity to Humans); MAK-4 (Substances with Carcinogenic Potential for Which Genotoxicity Plays No or at Most, a Minor Role)

CYCLIC SECONDARY AMINE: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); IARC-3 (Not Classifiable as to Carcinogenicity to Humans) ALKENOIC ACID: MAK-3 (Substances Which Cause Concern that They Could be Carcinogenic for Man but Cannot Be Assessed Conclusively Because of Lack of Data. The classification in Category 3 is provisional.

The remaining components of this product are not found on the following lists: U.S. EPA, U.S. NTP, U.S. OSHA, U.S. NIOSH, GERMAN MAK, IARC, or ACGIH and therefore are neither considered to be nor suspected to be cancer-causing agents by these agencies.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on animal or human reproductive systems.

Mutagenicity: The components of this product are not reported to cause mutagenic effects in humans. There is insufficient information available to conclude that the Primary Alkyl Alcohol component is mutagenic. A positive result was obtained in a limited oral study in mice, however other oral and inhalation studies in live rats and mice have given negative results. Mostly negative results have been obtained in cultured mammalian cells, bacteria and fruit flies (Drosophila).

Embryotoxicity: The components of this product are not reported to cause embryotoxic effects in humans. The Primary Alkyl Alcohol component has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity. The n-Butyl Alcohol component has caused embryotoxic and teratogenic effects in animal tests, but only with maternal toxicity.

Teratogenicity: The components of this product are not reported to cause teratogenic effects in humans. The Ethylene Glycol Monobutyl Ether has caused teratogenic effects, but only with maternal toxicity.

Reproductive Toxicity: The components of this product are not reported to cause reproductive effects in humans.

ACGIH BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, ACGIH Biological Exposure Indices (BEIs) have been determined for some components of this product, as follows:

CHEMICAL: DETERMINANT	SAMPLING TIME	BEI
Ethylene Glycol Monobutyl Ether • Butoxyacetic Acid in urine	• End of shift.	• 200 mg/g creatine
Primary Alkyl Alcohol Methanol in urine	• End of shift.	• 15 mg/L



12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

IOBILITY: This product has not been tested for mobility in soil. The following information is available for some

n-BUTYL ALCOHOL: The Koc of n-Butyl Alcohol is estimated as 72, using a log Kow of 0.88 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that n-Butyl Alcohol is expected to have high mobility in soil.

ETHYLENE GLYCOL MONOBUTYL ETHER: The Koc of 2-Butoxyethanol is estimated as 67, using a log Kow of 0.83 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that 2-Butoxyethanol is expected to have high mobility in soil.

PRIMARY ALKYL ALCOHOL: Using a structure estimation method based on molecular connectivity indices, the Koc for this material can be estimated to be 1. According to a classification scheme, this estimated Koc value suggests that this material is expected to have very high mobility in soil.

PERSISTENCE AND BIODEGRADABILITY: This product has not been tested for persistence or biodegradability. The following information is available for some components.

n-BUTYL ALCOHOL: If released to air, a vapor pressure of 7 mm Hg at 25° C indicates n-Butyl Alcohol will exist solely as a vapor in the ambient atmosphere. Vapor-phase n-Butyl Alcohol will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 46 hours. If released to soil, n-Butyl Alcohol is expected to have high mobility based upon an estimated Koc of 72. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 8.8X10-6 atm-cu m/mole. n-Butyl Alcohol may volatilize from dry soil surfaces based upon its vapor pressure. The blodegradation half-life of n-Butyl Alcohol in a sub-surface soil was approximately 7 days. If released into water, n-Butyl Alcohol is not expected to adsorb to suspended solids and sediment in water based upon the estimated Koc. Volatilization from water surfaces is expected to be an important environmental fate process based upon this compound's Henry's Law constant. Estimated volatilization half-lives for a model river and model lake are 2 and 29 days, respectively. In a river die-away test, n-Butyl Alcohol achieved 33% of its theoretical BOD in 5 days, suggesting biodegradation will be an important fate process in water. Hydrolysis is not expected to be an important environmental fate process since this compound lacks functional groups that hydrolyze under environmental conditions.

ETHYLENE GLYCOL MONOBUTYL ETHER: If released to air, a vapor pressure of 0.88 mm Hg at 25°C indicates 2-Butoxyethanol will exist solely as a vapor in the ambient atmosphere. Vapor-phase 2-Butoxyethanol will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is authospiere, vapor-phase 2-butoxyetrianor will be degrated in the authospiere by reaction with photoconemically-produced hydroxyr radicals; the nair-life for this reaction in air is estimated to be 16 hours. If released to soil, 2-butoxyethanol is expected to be an important fate process based upon a Henry's Law constant of 1.60X10-6 atm-cu m/mole. If released into water, 2-butoxyethanol is not expected to adsorb to suspended solids and sediment based upon the estimated Koc. 2-butoxyethanol reached 91% of its theoretical BOD in 14 days using an activated sludge inoculum. Therefore this compound has the potential to biodegrade rapidly in water. Based upon this compound's estimated Henry's Law constant it is concluded that the volatilization of 2-butoxyethanol from water surfaces may be an important fate process. The estimated volatilization half-lives for a model river and model take are 25 and 185 days, respectively. Hydrolysis is not expected to be an important fate process since this compound lacks funding activity theory environmental fate process since this compound lacks funding activity theory environmental fate process since this compound lacks funding activity theory environmental lacks funding the process.

important environmental fate process. The estimated volume and indeed that and indeed the analysis and an account the analysis and an account that any important environmental fate process since this compound lacks functional groups that hydrolyze under environmental conditions.

PRIMARY ALKYL ALCOHOL: If released to the atmosphere, a vapor pressure of 127 mm Hg at 25°C indicates that this material will exist solely in the vapor phase. Vapor phase this RIMARY ALKYL ALCOHOL: If released to the atmosphere, a vapor pressure of 127 mm Hg at 25°C indicates that this material will exist solely in the vapor phase. Vapor phase this material is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 17 days. If released to soil, this compound is expected to have very high mobility based upon an estimated Koc of 1. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 4,55X10-6 atm-cu m/mole. This compound may also volatilize from dry soils based upon it vapor pressure. Biodegradation in soils is expected to occur rapidly based on half-lives in a sandy silt loam from Texas and a sandy loam from Mississippi of 1 and 3.2 days, respectively. If released into water, this compound is not expected to adsorb to suspended soilds and sediment based upon the estimated Koc. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. Estimated volatilization half-lives for a model river and model lake are 3 and 35 days, respectively. Biodegradation is expected to occur in natural transfers this material is depended suitable in adverse biodegradation is expected to occur in natural transfers. waters since this material is degraded quickly in soils and was biodegraded rapidly in various aqueous screening tests using sewage seed or activated studge. BCF values of less than 10, measured in fish suggests bioconcentration in aquatic organisms is low. Hydrolysis photolysis in sunlit surface waters are not expected since this compound lacks functional groups that are susceptible to hydrolysis or photolysis under environmental conditions.

BIO-ACCUMULATION POTENTIAL: This product has not been tested for bio-accumulation potential. The following information is available for some components.

h-BUTYL ALCOHOL: An estimated BCF of 3 was calculated for n-Butyl Alcohol, using a log Kow of 0.88 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low. Octanol/Water Partition Coefficient; Log Kow = 0.88

ETHYLENE GLYCOL MONOBUTYL ETHER: An estimated BCF of 3 was calculated for 2-Butoxyethanol, using an estimated log Kow of 0.83 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

PRIMARY ALKYL ALCOHOL: Fish (golden ide) exposed to 0.05 mg/L of this material for three days in an aquatic tank had measured BCF values of less than 10. Based on a classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low.

ECOTOXICITY: This product has not been tested for toxicity to aquatic or terrestrial organisms; however, all release to terrestrial, atmospheric and aquatic environments should be avoided. Release of this product to an aquatic environment may be harmful to aquatic plant and animal life in contaminated bodies of water, especially in large quantities. The following aquatic toxicity data are available for some components. Only select data are presented in this SDS. Contact Kinetic Fuel Technologies for information on other data available.

n-BUTYL ALCOHOL:

LC_{so},S (fathead minnow) 96 hours = 1,910 mg/L LC_{so} (Albumus albumus) 96 hours = 2,300 mg/L

(Nitocra spinipes) 96 hours = 2,100 mg/L ETHYLENE GLYCOL MONOBUTYL ETHER:

LC_{so} (Menidia beryllina Inland silverside) 96 hours = 1250 mg/L; static

LC₅₀ (Crangon crangon brown shrimp) 96 hours = 775 mg/L (range: 550-950 mg/L)

LC₅₀ (Lepomis macrochirus Bluegill) 96 hours = 1,490 mg/L; static LC₅₀ (Pimephales prometas Fathead minnow) 96 hours = 2137 mg/L

LCse (Oncorhynchus mykiss Rainbow trout) 96 hours = > 1000 mg/L

LC₅₀ (Crassostrea virginica Oyster) 96 hours = 89 mg/L

LC₅₀ (Cyprinodon variegatus Sheepshead minnow) 96 hours = 116 mg/L

LC₅₀ (Artemia salina Brine shrimp) 24 hours = 1000 mg/L PRIMARY ALKYL ALCOHOL:

EC₅₀ (Daphnia magna Water flea; immobilization) 24 hours = > 10,000 mg/L

LC₅₀ (Artemia salina Brine shrimp, 24 hr old) 24 hours = 1578.84 mg/L LC₅₀ (Pimephales promelas fathead minnows, 30 day old 0.12 g) 96 hours = 28,100

LC₅₀ (Oncorhynchus mykiss Rainbow trout, 0.8 g) 96 hours = 19,000 mg/L

PRIMARY ALKYL ALCOHOL (continued):

LC₅₀ (Lepomis macrochirus Bluegill) 96 hours = 15,400 mg/L; flow-through

LC50 (Nitocra spinipes Harpacticoid copeped, adult) 96 hours = 12,000 mg/L

LC₅₀ (Albumus albumus Bleak, 8 cm) 96 hours = 28,000 mg/L

LC_{so} (Gammarus fasciatus) 96 hours = > 100 mg/L i LC_{so} (Helisoma trivolvis aquatic mollusk) 96 hours = > 100 mg/L

LC₅₀ (Dugesia tigrina aquatic worm) 96 hours = > 100 mg/L

LC₅₀ (Ceriodaphnia dubia) 48 hours = 11 mg/L

LC₅₀ (Lumbriculus variegatus aquatic worm) 96 hours = > 100 mg/L

LC₅₀ (Crangon crangon Brown shrimp, adult) 96 hours = 1340 mg/L

LC₅₀ (Mytilus edulis Mussel, 5-7 cm) 96 hours = 15,900 mg/L

LC₅₀ (Agonus cetaphractus Armed bulthead, adult) 96 hours = 7900-26,070 mg/L CYCLIC SECONDARY AMINE:

LC_{so} (bluegill) 96 hours = 350 mg/L

LC₅₀ (daphnia) 24 hours = 100 mg/L EC₅₀ (Daphnia magna) 24 hours = 119 mg/L (immobilization)

ALKENOIC ACID: LC₅₀ (Pimephales promelas Fathead minnow, juvenile 4-8 wk, length 1.1-3.1 cm) 96

hours = 205,000 ug/L

OTHER ADVERSE EFFECTS: No component of this product is known to have ozone depletion potential.

ENVIRONMENTAL EXPOSURE CONTROLS: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

ENVIRONMENTAL EXPOSURE LIMITS (New Zealand): Currently, there are no EELS established for components of this product.

ESULTS OF PBT AND vPvB ASSESSMENT: No data available. PBT and vPvB assessments are part of the chemical safety report required for some substances in European Union Regulation (EC) 1907/2006, Article 14.

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13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT/DISPOSAL METHODS: It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Shipment of wastes must be done with appropriately permitted and registered transporters.

DISPOSAL CONTAINERS: Waste materials must be placed in and shipped in appropriate 5-gallon or 55-gallon poly or metal waste pails or drums. Permeable cardboard containers are not appropriate and should not be used. Ensure that any required marking or labeling of the containers be done to all applicable regulations.

PRECAUTIONS TO BE FOLLOWED DURING WASTE HANDLING: Wear proper protective equipment when handling waste materials.

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada. This product, if unaltered by handling, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

U.S. EPA WASTE NUMBER: Wastes of this product should be tested to determine if they meet the criteria for D001 Waste Characteristic-Ignitability.

EU EWC WASTE CODE: Waste organic solvents, refrigerants and foam/aerosol propellants, other solvents and solvent mixtures: 14 06 03*

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as Dangerous Goods,

UN 1993

PG III

128

3 (Flammable)

per regulations of the DOT.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

Dot Label(s) Required:

Emergency Response Guidebook Number (2012):

Marine Pollutant: This compound is not specifically listed as a Marine Pollutant and does not meet the criteria of a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

Class 3 (Flammable)

CERCLA RQ: 5000 lb (2270 kg)

RANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods, per regulations of Transport Canada. The use of the above U.S. DOT information from the U.S. 49 CFR regulations is allowed for shipments that originate in the U.S. For shipments via ground vehicle or rail that originate in Canada, the following information is applicable.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

Hazard Label(s) Required:

Special Provisions: Explosive Limit and Limited Quantity Index:

ERAP Index: Passenger Carrying Ship Index:

Passenger Carrying Road or Rail Vehicle Index:

UN 1993

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

3 (Flammable)

PĞ III

Class 3 (Flammable)

16 5 None

None 60

Marine Pollutant: This product does not meet the criteria of a Marine Pollutant under Transport Canada regulations, as per TDG 2.7. INTERNATIONAL AIR TRANSPORT ASSOCIATION/ICAO (IATA/ICAO): This material is classified as dangerous goods, per the International Air Transport Association.

UN Identification Number:

Hazard Class or Division:

Hazard Label(s) Required:

Proper Shipping Name/Description:

UN 1993

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

3 (Flammable) Class 3 (Flammable)

Packing Group: **Excepted Quantities:** E1

Passenger and Cargo Aircraft Packing Instruction: 355 Passenger and Cargo Aircraft Packing Maximum Net Quantity per Pkg.: 60 L

Passenger and Cargo Aircraft Packing Limited Quantity Packing Instruction: Y344 Passenger and Cargo Aircraft Packing Limited Quantity Maximum Net Quantity per Pkg.: 10 L

Sargo Aircraft Only Packing Instruction: 366 argo Aircraft Only Maximum Net Quantity per Pkg.: 60 L Special Provisions: А3

ERG Code:

3L

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14. TRANSPORTATION INFORMATION (Continued)

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is classified as dangerous

goods, per the International Maritime Organization.

UN No.:

Proper Shipping Name:

Hazard Class Number: Packing Group:

Special Provisions: Limited Quantities:

Excepted Quantities:

Packing: IBCs: Tanks: EmS:

Stowage Category:

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

111

223, 274, 955

5 L E1

Instructions: P001, Provisions: LP01 Instructions: IBC03, Provisions: None Instructions: T4, Provisions: TP1, TP29

F-E, S-E Category A.

Marine Pollutant: This product does not meet the criteria of a Marine Pollutant under UN criteria.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

(ADR): This product is classified by the Economic Commission for Europe to be dangerous goods.

F1

UN NO.: Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

Name and Description:

Class: **Classification Code:** Packing Group:

III Labels: Special Provisions: 274, 601, 640E

Limited Quantities: 5 L **Excepted Quantities:** Ε1

Packing Instructions: Instructions: P001, IBC03, LP01, R001

Special Packing Provisions: None Mixed Packing Provisions: **MP19**

Portable Tanks and Bulk Containers: Instructions: T4, Provisions: TP1, TP29

Hazard Identification No.:

ISTRALIAN FEDERAL OFFICE OF ROAD SAFETY CODE FOR THE TRANSPORTATION OF DANGEROUS GOODS 3Y ROAD OR RAIL: This product is classified as dangerous goods, per regulations of the Australian Federal Office of

Road Safety.

UN NO.:

Name and Description: Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol) Class or Division:

Packing Group: Ш Special Provisions: 223, 274 **Limited Quantities:** 5 L **Excepted Quantities:** E2

Packing Instructions: Instructions: P001, IBC03, LP01

Special Packing Provisions:

Portable Tanks and Bulk Containers: Instructions: T4, Special Provisions: TP1, TP29

HazChem Code:

TRANSPORT IN BULK ACCORDING TO THE IBC CODE: See the information under the individual jurisdiction listings for IBC information.

ENVIRONMENTAL HAZARDS: This compound does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and ADN); and is not specifically listed in Annex III under MARPOL 73/78.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA Reporting Requirements: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows.

		7101 00 10110110.	!
CHEMICAL NAME	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
n-Butyl Alcohol	No	No	Yes
Ethylene Glycol Monobutyl Ether	No	No	Yes/N230
Methyl Alcohol	No	No	Yes

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15. REGULATORY INFORMATION (Continued)

UNITED STATES REGULATIONS (continued):

U.S. SARA Threshold Planning Quantity (TPQ): There are no specific Threshold Planning Quantities for any component of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000

U.S. SARA Hazard Categories (Section 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: Yes; REACTIVE: No; SUDDEN RELEASE: No

U.S. CERCLA Reportable Quantities (RQ): n-Butyl Alcohol = 5000 lb (2270 kg); Primary Alkyl Alcohol = 5000 lb (2270 kg); the Ethylene Glycol Monobutyl Ether component has not been assigned a specific CERCLA RQ, but is a CERCLA Hazardous Substance.
U.S. TSCA Inventory Status: The components of this product are on the TSCA Inventory.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): No component is on the California Proposition 65 lists.

CANADIAN REGULATIONS:

Canadian DSL/NDSL Inventory Status: The components of this product are on the DSL Inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists: The components of this product are not on the CEPA Priorities Substances Lists.

Canadian WHMIS Classification and Symbols: B3: Flammable and Combustible Material: Combustible Liquid. D1A: Poisonous and Infectious Material: Immediate and Serious Effects: Toxic. D2A: Poisonous and Infectious Material: Other Effects: Toxic, Sensitization Based on Animal Information.





ADDITIONAL EUROPEAN REGULATIONS:

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance: Currently, there is no specific legislation pertaining to this product.

Chemical Safety Assessment: No data available. The chemical safety assessment is required for some substances according to European Union Regulation (EC) 1907/2006, Article 14.

ADDITIONAL AUSTRALIAN REGULATIONS:

Australian Inventory of Chemical Substances (AICS) Status: The components of this product are listed on the AICS.

Hazardous Substances Information System (HSIS): All components are listed in the HSIS, except the Alkenoic Acid component.

ADDITIONAL JAPANESE REGULATIONS:

Japanese ENCS: Components are on the ENCS Inventory, as indicated in composition tables in Section 3 (Composition and Information on Ingredients).

Japanese Ministry Of Economy, Trade, and Industry (METI) Status: The Cyclic Secondary Amine component is listed as Class I Specified Chemical Substance.

Poisonous and Deleterious Substances Control Law: The Primary Alkyl Alcohol component is listed as a Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

ADDITIONAL SINGAPORE REGULATIONS:

List of Controlled Hazardous Substances: Components are not listed on the Singapore List of Controlled Substances.

ADDITIONAL KOREAN REGULATIONS:

Korean Existing Chemical Substances Inventory Status: Components are listed on the Korean Existing Chemicals List, as indicated in composition tables in Section 3 (Composition and Information on Ingredients).

ADDITIONAL TAIWANESE REGULATIONS:

Taiwan Existing Chemical Substances Inventory Status: Components are listed on the Taiwan Existing Chemicals List.

ADDITIONAL CHINESE REGULATIONS:

Chinese Inventory of Existing Chemical Substances Status: Components are listed on the Chinese Inventory of Existing Chemical Substances (IECSC).

ADDITIONAL NEW ZEALAND REGULATIONS:

New Zealand Inventory of Chemicals (NZIoC): The components of this product are on the NZIoC.

ADDITIONAL MEXICAN REGULATIONS:

Mexican Workplace Regulations (NOM-018-STPS-2000): This product is classified as hazardous.

16. OTHER INFORMATION

U.S. ANSI LABELING (Based on 129.1, Provided to Summarize Occupational Exposure Hazards): WARNING! COMBUSTIBLE LIQUID AND VAPOR. CAN CAUSE ADVERSE CENTRAL NERVOUS SYSTEM EFFECTS BY INGESTION, INHALATION AND SKIN CONTACT. INGESTION AND INHALATION MAY BE FATAL. SKIN CONTACT MAY BE HARMFUL OR CAUSE IRRITATION. EYE CONTACT CAUSE SEVERE IRRITATION. INGESTION MAY CAUSE BLINDNESS OR ADVERSE BLOOD EFFECTS. ASPIRATION AFTER INGESTION MAY CAUSE PULMONARY EDEMA OR CHEMICAL PNEUMONITIS. Avoid breathing vapor. Avoid contact with skin, eyes, and clothing. Wash horoughly after handling. Wear gloves, goggles, and appropriate body protection during handling. Keep away from heat, parks and flame. Use only with adequate ventilation. Keep container closed.

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16. OTHER INFORMATION (Continued)

U.S. ANSI LABELING (continued): FIRST-AID: In case of contact, immediately flush skin or eyes for at least 20 minutes with large amounts of water. If inhaled move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, DO NOT induce vomiting-seek immediate medical attention. IN CASE OF FIRE: Use water fog, dry chemical, CO₂, or "alcohol" foam. Do not use halons. Liquid may float and may re-ignite on the surface of water. IN CASE OF SPILL: Eliminate all sources of ignition. Use non-sparking tools. Absorb spill with inert material and place in suitable container. Place residual in appropriate container and seal. Dispose of according to applicable regulations. Consult Safety Data Sheet for additional information.

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION: Classified in accordance with the GHS Standard.

Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Toxicity Cat. 4, Skin Irritation Cat. 2, Eye Irritation Cat. 2A, STOT (Inhalation-Irritation) SE Cat. 3, STOT (Inhalation-Narcotic Effect) SE Cat. 3, STOT (Ingestion-Eye) SE Cat. 1 Signal Word: Danger

Hazard Statements: H226: Flammable liquid and vapor. H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. H370: Causes damage to organs (eyes) if ingested.

Precautionary Statements:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe gas/mist/vapors/spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P370 + P378: In case of fire: Use materials appropriate for surrounding fire for extinction. Do not use halons. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P301 + P312: If swallowed, Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P332 + P313: If skin irritation occurs, get medical attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P304 + P340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P310: Immediately call a POISON CENTER or doctor. P321: Specific treatment (remove from exposure and treat symptoms).

Storage: P403 + P233 + P235: Store in a well-ventilated place, Keep container tightly closed. Keep cool. P405: Store locked up.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations.

Hazard Symbols/Pictograms: GHS02, GHS05, GHS07, GHS08

EU 67/548/EEC LABELING AND CLASSIFICATION: This material does not have a specific classification of hazardous, as defined by the European Union Council Directive 67/548/EEC or subsequent Directives. The following is a self-classification based on anticipated hazards.

<u>lassification:</u> Flammable, Harmful, Irritant

tisk Phrases: R10: Flammable, R20/21/22: Harmful by inhalation, in contact with skin and if swallowed, R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. R41: Risk of serious damage to eyes. R37/38: Irritating to respiratory system and skin. R67: Vapours may cause drowsiness and dizziness.

Safety Phrases: S1/2: Keep locked up and out of the reach of children. S8: Keep container tightly dry. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe fumes/vapour/spray. S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Hazard Symbols: F, Xn

KOREAN ISHA (Notice 2009-68) LABELING AND CLASSIFICATION: Classified in accordance with ISHA Notice 2009-Under ISHA, no differences in classification are applicable. Refer to information given under the Global Harmonization Standard Classification.

NEW ZEALAND HAZARDOUS SUBSTANCES and NEW ORGANISMS ACT (HNSO) CHEMICAL CLASSIFICATION: The product is classified as follows under the regulation:

Classification:

3.1C: Flammable Liquids: medium hazard.

6.1D (Oral, Dermal, Inhalation): Acutely toxic.

6.3A: Irritating to the skin.

6.8B: Suspected human reproductive or developmental toxicants.

6.9A (Inhalation): Toxic to human target organs or systems.

6.9B (Oral): Harmful to human target organs or systems.

8.3A: Corrosive to ocular tissue.

9.3C: Harmful to terrestrial vertebrates.

COMPONENT CLASSIFICATION:

Labeling and Classification Full Text under GHS:

n-Butyl Alcohol: This is a published-classification.

Classification: Flammable Liquid Category 3, Acute Oral Toxicity Category 4, Eye Damage Category 1, Skin Irritation Category. 2, Specific Target Organ Toxicity (Inhalation-Irritation) Single Exposure Category 3, Specific Target Organ Toxicity (Inhalation-Narcotic Effect) Single Exposure Category 3

Hazard Statements: H226: Flammable liquid and vapour, H302: Harmful if swallowed, H318: Causes serious eye damage, H315: Causes skin irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

Ethylene Glycol Monobutyl Ether: This is a published-classification.

Classification: Acute Oral Toxicity Category 4, Acute Dermal Toxicity Category 4, Acute Inhalation Category 4, Eye Irritation Category 2, Skin Irritation Category 2

Hazard Statements: H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled, H319: Causes serious eye irritation. H315: Causes skin irritation.

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16 OTHER INFORMATION (Continued)

COMPONENT CLASSIFICATION (continued):

Labeling and Classification Full Text under GHS (continued):

Primary Alkyl Alcohol: This is a published-classification.

Classification: Flammable Liquid Category 2 Acute Oral Toxicity Category 3, Acute Dermal Toxicity Category 3, Acute Inhalation Toxicity Category 3, Acute Dermal Toxicity Category 3, Acute Inhalation Toxicity Category 3, Acute Dermal Toxicity Category 3, Acute Inhalation Toxicity Category 3, Acute

Hazard Statements: H225: Highly flammable liquid and vapour. H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled. H370: Causes damage to organs.

Cyclic Secondary Amine: This is a published classification.

Classification: Flammable Liquid Category 3 Acute Oral Toxicity Category 4, Acute Dermal Toxicity Category 4, Acute Inhalation Toxicity Category 4, Skin Corrosion Category 1B

<u>Hazard Statements</u>: H226: Flammable liquid and vapour. H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled. H314: Causes severe skin burns and eye damage.

Alkenoic Acid: This is a self-classification.

Classification: Skin Irritation Category, 2

Hazard Statements: H315: Causes skin irritation.

Labeling and Classification Full Text under EU 67/548/EEC:

n-Butyl Alcohol: This is a published-classification.

Classification: Flammable, Harmful, Irritant

Risk Phrases: R10: Flammable. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Limited evidence of a carcinogenic effect. R67: Vapours may cause drowsiness and dizziness.

Ethylene Glycol Monobutyl Ether: This is a published-classification.

Classification: Harmful, Irritant

Risk Phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/38: Irritating to eyes and skin.

Primary Alkyl Alcohol: This is a published-classification.

Classification: Flammable, Toxic

Risk Phrases: R11: Highly Flammable. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Cyclic Secondary Amine: This is a published-classification.

Classification: Flammable, Harmful, Corrosive

Risk Phrases: R10: Flammable, R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R34: Causes burns.

Alkenoic Acid: This is a self-classification.

Classification: Irritant Risk Phrases: R38:

New Zealand HSNO COP 8-1 09-06: The following are classifications under HSNO for components in pure form. These classifications do not apply to the product. Refer to Section 2 for product classification.

n-Butyl Alcohol:

3.1C: Flammable Liquids: medium hazard

6.1D (Oral): Acutely toxic

6.1E (Dermal, Inhalation): Acutely toxic.

6.3A: Irritating to the skin.

8.3A: Corrosive to ocular tissue.

9.3C: Harmful to terrestrial vertebrates

Ethylene Glycol Monobutyl Ether:

3.1D: Flammable Liquids: low hazard.

6.1D (Oral, Inhalation): Acutely toxic.

6.1D (Dermal): Acutely toxic.

6.3B: Mildly irritating to the skin.

6.4A: Irritating to the eye.

9.3C: Harmful to terrestrial vertebrates.

Primary Alkyl Alcohol:

3.1B: Flammable Liquids: High hazard.

6.1C (Oral, Dermal, Inhalation): Acutely toxic.

6.4C: Irritating to the eye.

6.8B: Suspected human reproductive or developmental toxicants.

6.9A (Inhalation): Toxic to human target organs or systems.

9.3C: Harmful to terrestrial vertebrates.

Cyclic Secondary Amine:

3.1C: Flammable Liquids: medium hazard.

6.1C (Oral, Dermal, Inhalation): Acutely toxic.

6.9A (Inhalation): Toxic to human target organs or systems.

6.9B (Oral): Harmful to human target organs or systems.

8.1A: Corrosive to metals.

8.2A: Corrosive to dermal tissue.

8.3A: Corrosive to ocular tissue.

9.1C (Fish, Crustacean, Algal): Harmful in the aquatic environment.

9.2C: Harmful in the soil environment,

9.3B: Ecotoxic to terrestrial vertebrates.

Alkenoic Acid:

6.3A: Irritating to the skin.

6.4A: Irritating to the eye.



16. OTHER INFORMATION (Continued)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Kinetic Fuel Technology Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

REVISIONS DETAILS: May 2014: Up-date of entire SDS for compliance with additional country regulations.

REFERENCES AND DATA SOURCES: Contact the supplier for information.

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product. PREPARED BY-

CHEMICAL SAFETY ASSOCIATES, Inc. • PO Box 1961, Hilo, HI 96721 • 800-441-3365 • 808-969-4846

DATE OF PRINTING: December 5, 2014

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each constituent

EXPOSURE LIMITS IN AIR:

CEILING LEVEL: The concentration that shall not be exceeded during any part of the working exposure.

DFG MAK Germ Cell Mutagen Categories: 1: Germ cell mutagens that have been shown to increase the mutant frequency in the progeny of exposed humans, 2: Germ cell mutagens that have been shown to increase the mutant frequency in the progeny of exposed mammals. 3A: Substances that have been shown to induce genetic damage in germ cells of human of animals, or which produce mutagenic effects in somatic cells of mammals in vivo and have been shown to reach the germ cells in an active form. 3B: Substances that are suspected of being germ cell mutagens because of their genotoxic effects in mammalian somatic cell in vivo; in exceptional cases, substances for which there are no in vivo data, but that are clearly mutagenic in vitro and structurally related to known in vivo mutagens. 4: Not applicable (Category 4 carcinogenic substances are those with non-genotoxic mechanisms of action. By definition, germ cell mutagens are genotoxic. Therefore, a Category 4 for germ cell mutagens cannot apply. At some time in the future, it is conceivable that a Category 4 could be established for genotoxic substances with primary targets other than DNA [e.g. purely aneugenic substances] if research results make this seem sensible. 5: Germ cell mutagens, the potency of which is considered to be so low that, provided the MAK value is observed, their contribution to genetic risk for humans is expected not to be significant.

DFG MAK Pregnancy Risk Group Classification: Group A: A risk of damage to the DFG.MAK Pregnancy Risk Group Classification: Group A: A risk of damage to the developing embryo or fetus has been unequivocally demonstrated. Exposure of pregnant women can lead to damage of the developing organism, even when MAK and BAT (Biological Tolerance Value for Working Materials) values are observed. Group B: Currently available information indicates a risk of damage to the developing embryo or fetus must be considered to be probable. Damage to the developing organism cannot be sluded when pregnant women are exposed, even when MAK and BAT values are erved. Group C: There is no reason to fear a risk of damage to the developing embryo fetus when MAK and BAT values are observed. Group D: Classification in one of the groups A-C is not yet possible because, although the data available may indicate a trend, they are not sufficient for final evaluation.

IDLH: Immediately Dangerous to Life and Health. This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury.

LOQ: Limit of Quantitation.

MAK: Federal Republic of Germany Maximum Concentration Values in the workplace.

NE: Not Established, When no exposure guidelines are established, an entry of NE is made for reference.

NIC: Notice of Intended Change,

NIOSH CEILING: The exposure that shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, the ceiling shall be assumed as a 15-minute TWA exposure (unless otherwise specified) that shall not be exceeded at any time during a

NIOSH RELs: NIOSH's Recommended Exposure Limits.

PEL: OSHA's Permissible Exposure Limits. This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are Indicated. The phrase, "Vacated 1989 PEL" is placed next to the PEL that was vacated by

SKIN: Used when a there is a danger of cutaneous absorption.

STEL: Short Term Exposure Limit, usually a 15-minute time-weighted average (TWA) exposure that should not be exceeded at any time during a workday, even if the 8-hr TWA

exposure that should not be exceeded at any time during a workday, even if the original results is within the TLV-TWA, PEL-TWA or REL-TWA.

TLV: Threshold Limit Value. An airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour.

TWA: Time Weighted Average exposure concentration for a conventional 8-hr (TLV, PEL)

or up to a 10-hr (REL) workday and a 40-hr workweek.

WEEL: Workplace Environmental Exposure Limits from the AIHA.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD

RATINGS: This rating system was developed by the National Paint and Coating Association and has been adopted by industry to identify the degree of chemical hazards. HEALTH HAZARD: 0 Minimal Hazard: No significant health risk, irritation of skin or eyes not anticipated. Skin Initiation: Essentially non-irritating. Mechanical irritation may occur. Pil or Draize ≡ 0. Eye Initiation: Essentially non-irritating, minimal effects clearing in < 24 ts. Mechanical irritation may occur. Draize = 0. Oral Toxicity LD₅₀ Rat: > 5000 mg/kg. mai Toxicity LD₅₀ Rat or Rabbit: > 2000 mg/kg. Inhalation Toxicity 4-hrs LC₅₀ Rat: > 20

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

HEALTH HAZARD (continued): 1 Slight Hazard: Minor reversible injury may occur; may irritate the stomach if swallowed; may defat the skin and exacerbate existing dermatitis. Skin Initation: Slightly or mildly irritating. PII or Draize > 0 < 5. Eye Initation: Slightly to mildly irritating, but reversible within 7 days, Draize $> 0 \le 25$. Oral Toxicity LD_{50} Rat. > 500— 5000 mg/kg. Dermal Toxicity LDs. Rat or Rabbit > 1000-2000 mg/kg. Inhalation Toxicity LCs. 4-hrs Rat. > 2-20 mg/L. 2 Moderate Hazard: Temporary or transitory injury may occur; prolonged exposure may affect the CNS. Skin Initiation: Moderately injury may initiant; sensitizer. PII or Dralze ≥ 5, with no destruction of dermal tissue. Eye Initiation: Moderately to severely irritating; reversible corneal opacity; comeal involvement or irritation clearing in 8–21 days. Draize = 26–100, with reversible effects. Oral Toxicity LD_{80} Rat. > 50–500 mg/kg. Dermal Toxicity LD_{80} Rat or Rabbit. > 200–1000 mg/kg. Inhalation Toxicity LC₅₀ 4-hrs Rat. > 0.5-2 mg/L, 3 Serious Hazard: Major injury likely unless prompt action is taken and medical treatment is given; high level of toxicity; corrosive. Skin Irritation: Severely irritating and/or corrosive; may cause destruction of dermal tissue, skin burns, and dermal necrosis. PII or Draize > 5-8, with destruction of tissue. Eye Irritation: Corrosive, irreversible destruction of ocular tissue; corneal involvement or irritation persisting for more than 21 days. Draize > 80 with effects irreversible in 21 days. Oral Toxicity LD_{50} Rat. > 1–50 mg/kg. Dermal Toxicity LD_{50} Rat or Rabbit: > 20–200 mg/kg, Inhalation Toxicity LC_{50} 4hrs Rat: > 0.05-0.5 mg/L. 4 Severe Hazard: Life-threatening; major or permanent damage may result from single or repeated exposure; extremely toxic; irreversible injury may result from brief contact. Skin Irritation. Not appropriate. Do not rate as a 4, based on skin irritation alone. Eye Irritation: Not appropriate. Do not rate as a 4, based on eye irritation alone. Oral Toxicity LD₅₀ Rat: < 1 mg/kg. Dermal Toxicity LD₅₀ Rat or Rabbit: < 20 mg/kg. Inhalation Toxicity LC50 4-hrs Rat: ≤ 0.05 mg/L.

FLAMMABILITY HAZARD: 0 Minimal Hazard: Materials that will not burn in air when exposure to a temperature of 815.5°C (1500°F) for a period of 5 minutes. 1 Slight Hazard: Materials that must be pre-heated before ignition can occur. Material requires considerable pre-heating, under all ambient temperature conditions before ignition and combustion can occur. This usually includes the following: Materials that will burn in air when exposed to a temperature of 815.5°C (1500°F) for a period of 5 minutes or less; Liquids, solids and semisolids having a flash point at or above 93.3°C (200°F) (i.e. OSHA Class IIIB); and Most ordinary combustible materials (e.g. wood, paper, etc.). 2 Moderate Hazard: Materials that must be moderately heated or exposed to relatively high ambient temperatures before must be moderately neated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not, under normal conditions, form hazardous atmospheres in air, but under high ambient temperatures or moderate heating may release vapor in sufficient quantities to produce hazardous atmospheres with air. This usually includes the following: Liquids having a flash-point at or above 37.8°C (100°F); Solid materials in the form of course dusts that may burn rapidly but that generally do not form explosive atmospheres; Solid materials in a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from the flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from that may burn rapidly and create flosh fire between the content is a fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shredded from the fibrous or shre rapidly and create flash fire hazards (e.g. cotton, sisal, hemp); and Solids and semisolids (e.g. viscous and slow flowing as asphalt) that readily give off flammable vapors. 3 Serious Hazard: Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures, or, unaffected by ambient temperature, are readily ignited under almost all conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures, or, unaffected by ambient temperature, are readily ignited under almost all conditions. This usually includes the following: Liquids having a flash point below 22.8°C (73°F) and having a boiling point at or above 38°C (100°F) and those liquids having a flash point at or above 22.8°C (73°F) and below 37.8°C (100°F) (i.e. OSHA Class IB and IC): Materials that on account of their physical form or environmental conditions can form explosive mixtures with air and are readily dispersed in air (e.g., dusts of combustible solids, mists or droplets of flammable liquids); and Materials that burn extremely rapidly, usually by reason of self-contained oxygen (e.g. dry nitrocellulose and many organic peroxides). 4 Severe Hazard: Materials that will rapidly or completely waporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air, and that will burn readily. This usually includes the following: Flammable gases; Flammable cryogenic materials; Any liquid or gaseous material that is liquid while under pressure and has a flash point below 22.8°C (73°F) and a boiling point below 37.8°C (100°F) (i.e. OSHA Class IA); and Materials that ignite spontaneously when exposed to air at a temperature of 54.4°C (130°F) or below (pyrophoric).

PHYSICAL HAZARD: 0 Water Reactivity. Materials that do not react with water. Organic

Peroxides: Materials that are normally stable, even under fire conditions and will not react with water. Explosives: Substances that are Non-Explosive. Compressed Gases: No Rating. Pyrophorics: No Rating: Oxidizers: No 0 rating. Unstable Reactives: Substances that will not polymerize, decompose, condense, or self-react.). 1 Water Reactivity: Materials that change or decompose upon exposure to moisture. Organic Peroxides: Materials that are normally stable, but can become unstable at high temperatures and pressures. These materials may react with water, but will not release energy violently. Explosives: Division 1.5 & 1.6 explosives. Substances that are very insensitive explosives or that do not have a mass explosion hazard. Compressed Gases: Pressure below OSHA

definition. Pyrophorics: No Rating.



DEFINITION OF TERMS (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYRATINGS (continued):

SYSTEM HAZARD

HYSICAL HAZARD (continued): 1 (continued): Oxidizers: Packaging Group III oxidizers; plids: any material that in either concentration tested, exhibits a mean burning time less an or equal to the mean burning time of a 3.7 potassium promate/cellulose mixture and ine criteria for Packing Group I and II are not met. Liquids: any material that exhibits a mean pressure rise time less than or equal to the pressure rise time of a 1:1 nitric acid (65%)/cellulose mixture and the criteria for Packing Group I and II are not met. Unstable Reactives: Substances that may decompose condense, or self-react, but only under conditions of high temperature and/or pressure and have little or no potential to cause significant heat generation or explosion hazard. Substances that readily undergo hazardous polymerization in the absence of inhibitors. Substances that readily undergo hazardous polymerization in the absence of inhibitors. 2 Water Reactivity. Materials that may react violently with water. Organic Peroxides: Materials that, in themselves, are normally unstable and will readily undergo violent chemical change, but will not detonate. These materials may also react violently with water. *Explosives*: Division 1.4 explosives. Explosive substances where the explosive effects are largely confined to the package and no projection of fragments of appreciable size or range are expected. An external fire must not cause virtually instantaneous explosion of almost the entire contents of the package. Compressed Gases: Pressurized and meet OSHA definition but < 514.7 psi absolute at 21.1°C (70°F) [500 psig]. *Pyrophorics*: No Rating. *Oxidizers*: Packing Group II oxidizers. Solids: any material that, either in concentration tested, exhibits a mean burning time of less than or equal to the mean burning time of a 2.3 potassium bromate/cellulose mixture and the criteria for Packing Group I are not met. Liquids: any material that exhibits a mean pressure rise time less than or equal to the pressure rise of a 1:1 aqueous sodium chlorate solution (40%)/cellulose mixture and the criteria for Packing Group I are not met. Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure, but have a low potential (or low risk) for significant heat generation or explosion. Substances that readily form peroxides upon exposure to air or oxygen at room temperature. 3 Water Reactivity. Materials that may form explosive reactions with water. Organic Peroxides: Materials that are capable of detonation or explosive reaction, but require a strong initiating source or must be heated under confinement before initiation; or materials that react explosively with water. Explosives: Division 1.3 explosives. Explosive substances that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but do not have a mass explosion hazard. Compressed Gases: Pressure ≥ 514.7 psi absolute at 21.1°C (70°F) [500 psig]. Pyrophorics: No Rating. Oxidizers: Packing Group I oxidizers. Solids: any material that, in either concentration tested, exhibits a mean burning time less than the mean burning time of a 3:2 potassium bromate/cellulose mixture. Liquids: any material that spontaneously ignites when mixed with cellulose in a 1:1 ratio, or which exhibits a mean pressure rise time less than the pressure rise time of a 1:1 perchloric acid (50%)/cellulose mixture. Unstable Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure and have a moderate potential (or moderate risk) to use significant heat generation or explosion. 4 Water Reactivity. Materials that react plosively with water without requiring heat or confinement. Organic Peroxides: Materials it are readily capable of detonation or explosive decomposition at normal temperature and pressures, Explosives: Division 1.1 & 1.2 explosives. Explosive substances that have a mass explosion hazard or have a projection hazard. A mass explosion is one that affects mass explosion nazard or have a projection nazard. A mass explosion is one that anects almost the entire load instantaneously. Compressed Gases: No Rating. Pyrophorics: Add to the definition of Flammability 4. Oxidizers: No 4 rating. Unstable Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure and have a high potential (or high risk) to cause significant heat generation or explosion

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

HEALTH HAZARD: 0 Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. Gases and vapors with an LC₅₀ for acute inhalation toxicity greater than 10,000 ppm. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than 200 mg/L. Materials with an LD₅₀ for acute dermal toxicity greater than 2000 mg/kg. Materials with an LD₅₀ for acute oral toxicity greater than 2000 mg/kg. Materials with an LD₅₀ for acute oral toxicity greater than 2000 mg/kg. Materials essentially non-irritating to the respiratory tract, eyes, and skin. 1 Materials that, under emergency conditions, can cause significant irritation. Gases and vapors with an LC₅₀ for acute inhalation toxicity greater than 5,000 ppm but less than or equal to 10,000 ppm. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than 1000 mg/kg but less than or equal to 2000 mg/kg. Materials that sightly to moderately irritate the respiratory tract, eyes and skin. Materials with an LD₅₀ for acute oral toxicity greater than 500 mg/kg but less than or equal to 2000 mg/kg. 2 Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. Gases with an LC₅₀ for acute inhalation toxicity greater than 3,000 ppm but less than or equal to 5,000 ppm. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than one-fifth its LC₅₀ for acute inhalation toxicity, if its LC₅₀ is less than or equal to 5000 ppm and that does not meet the criteria for either degree of hazard 3 or degree of hazard 4. Dusts and mists with an LC₅₀ for acute inhalation loxicity greater than 2000 mg/kg but less than or equal to 1000 mg/kg. Compressed liquefied gases with boiling points between -30°C (-22°F) and -55°C (-66.5°F) that cause severe tissue damage, depending on duration of exposure. Materials with an LC₅₀ for acute oral toxicity is greater than 50 mg/kg but less than or equal to 500 mg/kg. 3 Materials that, under emergency condit

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS (continued):

HEALTH HAZARD (continued): 3 (continued): Materials that are corrosive to the respiratory tract. Materials that are corrosive to the eyes or cause irreversible corneal opacity. Materials corrosive to the skin. Cryogenic gases that cause frostbite and irreversible tissue damage. Compressed liquefied gases with boiling points below -55°C (-66.5°F) that cause frostbite and irreversible tissue damage. Materials with an LD₅₀ for acute oral toxicity greater than 5 mg/kg but less than or equal to 50 mg/kg. 4 Materials that, under emergency conditions, can be lethal. Gases with an LC₅₀ for acute inhalation toxicity less than or equal to 1,000 ppm. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than ten times its LC₅₀ for acute inhalation toxicity, if its LC₅₀ less than or equal to 1000 ppm. Dusts and mists whose LC₅₀ for acute inhalation toxicity is less than or equal to 0.5 mg/L. Materials whose LD₅₀ for acute dermal toxicity is less than or equal to 40 mg/kg. Materials whose LD₅₀ for acute oral toxicity is less than or equal to 5 mg/kg.

FILAMMABILITY HAZARD: 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand, Materials that will not burn in air when exposed to a temperature of 816°C (1500°F) for a period of 5 minutes in according with Annex D of NFPA 704, 1 Materials that must be preheated before ignition can occur. Materials in this degree require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur: Materials that will burn in air when exposed to a temperature of 816°C (1500°F) for a period of 5 minutes in according with Annex D of NFPA 704. Liquids, solids, and semisolids having a flash point at or above 93.4°C (200°F) (i.e. Class IIIB liquids). Liquids with a flash point greater than 35°C (95°F) that do not sustain combustion when lested using the Method of Testing for Sustained Combustibility, per 49 CFR 173, Appendix H or the UN Recommendations on the Transport of Dangerous Goods, Model Regulations (current edition) and the related Manual of Tests and Criteria (current edition). Liquids with a flash point greater than 35°C (95°F) in a water-miscible solution or dispersion with a water non-combustible liquid/solid content of more than 85% by weight. Liquids that have no fire point when tested by ASTM D 92, Standard Test Method for Flash and Fire Points by Cleveland Open Cup, up to the boiling point of the liquid or up to a temperature at which the sample being tested shows an obvious physical change. Combustible pellets with a representative diameter of greater than 2 mm (10 mesh). Most ordinary combustible materials. Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 2 Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not under normal conditions form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating could release vapor in sufficient quantities to produce hazardous atmospheres with air, Liquids having a flash point at or above 37.8°C (100°F) and below 93.4°C (200°F) (i.e. Class III and Class IIIIA liquids.) Solid materials in the form of powders or coarse dusts of representative diameter between 420 microns (40 mesh) and 2 mm (10 mesh) that burn rapidly but that generally do not form explosive mixtures with air. Solid materials in fibrous or shredded form that burn rapidly and create flash fire hazards, such as cotton, sisal, and hemp. Solids and semisolids that readily give off flammable vapors. Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 3 Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions. Liquids having a flash point below 22.8°C (73°F) and having a boiling point at or above 37.8°C (100°F) and those liquids having a flash point at or above 37.8°C (100°F) (i.e. Class IB and IC liquids). Materials that on account of their physical form or environmental conditions can form explosive mixtures with air and are readily dispersed in air. Flammable or combustible dusts with representative diameter less than 420 microns (40 mesh). Materials that burn with extreme rapidity, usually by reason of self-contained oxygen (e.g. dry nitrocellulose and many organic peroxides). Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 4 Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and will burn readily. Flammable gases, Flammable cryogenic materials. Any liquid or gaseous materials that is liquid white under pressure and has a flash point below 22.8°C (73°F) and a bolling point below 37.8°C (100°F) (i.e. Class IA liquids). Materials that ignite when exposed to air, Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent.

INSTABILITY HAZARD: 0 Materials that in themselves are normally stable, even under fire conditions. Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) below 0.01 W/mL. Materials that do not exhibit an exotherm at temperatures less than or equal to 500°C (932°F) when tested by differential scanning calorimetry. 1 Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures. Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 0.01 W/mL and below 10 W/mL. 2 Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 10 W/mL and below 100W/mL. 3 Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 10 W/mL and below 100W/mL. 3 Materials that in themselves are capable of detonation or explosive decomposition or explosive freation, but that require a strong initiating source or that must be heated under confinement before initiation. Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 100 W/mL and below 1000 W/mL and pressures. 4 Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at 100°C were applied of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) of 1000 W/mL or greater.

K100G & K100MG SDS



DEFINITION OF TERMS (Continued)

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire staction Association (NFPA). Flash Point: Minimum temperature at which a liquid gives sufficient vapor to form an ignitable mixture with air near the surface of the liquid or hin the test vessel used. Autoignition Temperature: Minimum temperature of a solid, liquid, or gas required to initiate or cause self-sustained combustion in air with no other source of ignition. LEL: Lowest concentration of a flammable vapor or gas/air mixture that will ignite and burn with a flame. UEL: Highest concentration of a flammable vapor or gas/air mixture that will ignite and burn with a flame.
TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. LD₆₆: Lethal Dose (solids & liquids) that kills 50% of the exposed animals. LC₅₀: Lethal Concentration (gases) that kills 50% of the exposed animals. ppm: Concentration expressed in parts of material per million parts of air or water. mg/m²: Concentration expressed in weight of substance per volume of air. mg/kg: Quantity of material, by weight, administered to a test subject, based on their body weight in kg. TDLo: Lowest dose to cause a symptom. TCLo: Lowest concentration to cause a symptom. TCLo; and LDo, or TC, TCo, LCLo, and LCo: Lowest dose (or concentration) to cause lethal or toxic effects. Cancer Information: IARC: International Agency for Research on Cancer, NTP: National Toxicology Program. RTECS: Registry of Toxic Effects of Chemical Substances. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with Human and Animal Toxicology: Possible health hazards as derived from human data, NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other Information: BEI: ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

REPRODUCTIVE TOXICITY INFORMATION: A mutagen is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryo toxin is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in flumans), but the damage does not propagate across generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with the reproductive process.

ECOLOGICAL INFORMATION:

EC: Effect concentration in water. BCF: Bioconcentration Factor, which is used to determine if a substance will concentrate in life forms that consume contaminated plant or animal matter. TLm: Median threshold limit. log Kow or log Koc: Coefficient of Oil/Water Distribution is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

EPA: U.S. Environmental Protection Agency. ACGIH: American Conference of Governmental Industrial Hygienists, a professional association that establishes exposure Governmental industrial Hygienists, a professional association that establishes exposure limits. OSHA: U.S. Occupational Safety and Health Administration, NIOSH: National Institute of Occupational Safety and Health, which is the research arm of OSHA, DOT: U.S. Department of Transportation. TC: Transport Canada, SARA: Superfund Amendments and Reauthorization Act. TSCA: U.S. Toxic Substance Control Act. CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. Marine Pollutant status according to the DOT; CERCLA or Superfund; and various state regulations. This section also includes information on the precautionary warnings that appear on the material's package label.

CANADA:

WHMIS: Canadian Workplace Hazardous Materials Information System. TC: Transport Canada. DSL/NDSL: Canadian Domestic/Non-Domestic Substances List.

K100G & K100MG SDS



SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, European Union CLP EC 1272/2008, Australian NOHSC, the Korean ISHA (Notice 2009-68), Singapore SS586 - 2: 2008 and SS 586 - 3: 2008 Standards, Chinese GB 20576 ~ GB 20602-2006, Japanese JIS Z7250, Taiwanese Standards and the Global Harmonization Standard, and requirements under Chemical Control Regulations of Argentina, Chile, Colombia, Costa Rica, Panama, Honduras, Venezuela, Uruguay, Peru and Paraguay.

PART I What is the material and what do I need to know in an emergency?

1. SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

TRADE NAME/IDENTIFICATION OF THE MIXTURE: K100D and K100MD

SYNONYMS:

CHEMICAL NAME/FAMILY:

RELEVANT USES of the SUBSTANCE:

USES ADVISED AGAINST:

COMPANY/UNDERTAKING IDENTIFICATION:

U.S. SUPPLIER/MANUFACTURER'S NAME:

ADDRESS:

EMERGENCY PHONE (U.S./Canada/Puerto Rico):

EMERGENCY PHONE (OUTSIDE U.S.):

WEBSITE:

Primary Alcohol/Aliphatic Glycol/Secondary Amine/Alkenoic Acid Mixture

Diesel Fuel Treatment Other than Relevant Use

KINETIC FUEL TECHNOLOGY, INC.

1205 Balmer Road Youngstown, NY 14174

BUSINESS PHONE/GENERAL SDS INFORMATION: 1-716-745-1461 (Monday thru Friday 8 a.m. to 5 p.m., EST)

United States/Canada/Puerto Rico: 1-800/424-9300 (Chemtrec) [24-hrs] International: 01-703-527-3887 (Chemtrec) [24-hours]

www.k100fueltreatment.com

NOTE: ALL United States Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, Canadian WHMIS [Controlled Products Regulations] and Global Harmonization Standard required information is included in appropriate sections based on the U.S. ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the countries listed above.

2. HAZARD IDENTIFICATION

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION: Classified in accordance with Global Harmonization Standard under CLP Regulation (EC) 1272/2008, Japanese JIS Z7253: 2012 and Singapore Standards. For additional information on classification under (67/548/EEC), see below. For information on Korean ISHA and New Zealand HSNO classification, see below.

Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Toxicity Cat. 4, Skin Irritation Cat. 2, Eye Damage Cat. 1B, STOT (Inhalation-Irritation) SE Cat. 3, STOT (Inhalation-Narcotic Effect) SE Cat. 3, STOT (Ingestion-Eye) SE Cat. 1

Signal Word: Danger

Hazard Statement Codes: H226, H302 + H312 + H332, H315, H318, H335, H336, H371 Precautionary Statement Codes: P210, P233, P240, P241, P242, P243, P260, P264, P270, P271, P280, P370 + P378, P303 + P361 + P353, P301 + P312, P330, P302 + P352, P332 + P313, P362 + P364, P304 + P340, P305 + P351 + P338, P310, P321, P403 +

P233 + P235, P405, P501

Hazard Symbols/Pictograms: GHS02, GHS05, GHS07, GHS08









EU 67/58/EEC LABELING AND CLASSIFICATION: This substance meets the classification of hazardous, as defined by the European Union Council Directive 67/548/EEC or subsequent Directives. This is a self-classification.

Classification: Flammable, Harmful, Irritant

Risk Phrases: R10, R20/21/22, R68/20/21/22, R41, R37/38, R67

Safety Phrases: S1/2, S8, S16, S23, S24/25, S26, S36/37/39, S45

Symbols: F, Xn/Xi





KOREAN ISHA (Notice 2009-68) LABELING AND CLASSIFICATION: Classified in accordance with ISHA Notice 2009-68. Under ISHA, NO differences in classification are applicable.

NEW ZEALAND HSNO COP 8-1 09-06: This product is an article and is not required to be classified under HSNO regulations. See Section 16 for any component-required classification.

ZEALAND HAZARDOUS **CLASSIFICATION:**

SUBSTANCES

and NEW **ORGANISMS**

ACT

(HNSO)

Product Group Standard: Not Otherwise Classified, Subsidiary Hazard

Classification: 3.1C: Flammable Liquids: medium hazard. 6.1D (Oral, Dermal, Inhalation): Acutely toxic. 6.3A: Irritating to the skin. 6.8B: Suspected human reproductive or developmental toxicants. 6.9A (Inhalation): Toxic to human target organs or systems. 6.9B (Oral): Harmful to human target organs or systems. 8.3A: Corrosive to ocular tissue. 9.3C: Harmful to terrestrial vertebrates. See Section 16 for full text of Classification

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Product Description: This product is clear yellow, combustible liquid with a mild ether or weet odor. Health Hazards: This product may be harmful by inhalation, ingestion or by skin absorption. Inhalation and ingestion can cause central nervous system effects. Eye contact may cause severe irritation. Skin contact, especially if prolonged, may cause dermatitis. Ingestion may result in aspiration and damage to the lungs.

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2. HAZARD IDENTIFICATION (Continued)

Alcohol, severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 8-24 hour symptom-free period if ingested. Vapor may produce temporary blurring of vision with a general bluish or grayish haze and the appearance of halos around lights. Components are suspect reproductive toxins. Flammability Hazards: This product is combustible. When involved in a fire, this material may decompose and produce irritating vapors and toxic compounds (including carbon oxides, nitrogen oxides, ammonia, peroxides and formaldehyde). Reactivity Hazards: This product is not reactive. Environmental Hazards: This product may cause harm if released to the environment. Emergency Considerations: Emergency responders should wear appropriate protection, including fire protective equipment for situation to which they respond.

3. COMPOSITION and INFORMATION ON INGREDIENTS

							•		
Chemical Name	CAS#	European EINECS#	Jap MITI	anese ENC#	Korean ECL #	New Zealand NZIoC #	% w/w	LABEL ELEMENTS EU Classification (67/548/ GHS & EU Classification (Korean ISHA Classificatio	1272/2008)
Ethylene Glycol Monobutyl Ether	111-76-2	203-905-0		2-407, 2424	KE-04134	HSR001154	35-55%	Toxicity Cat. 4, Acute Inha 2, Skin Irritation Cat. 2	21/22, R36/38
n-Butyl Alcohol	71-36-3	200-751-6	124 /	2-3049	KE-03802	HSR001096	20-30%	Cat. 4, Eye Damage Cat (Inhalation-Irritation) SE Effect) SE Cat. 3 Hazard Statement Codes H335, H336	R22, R37/38, R41, R67 8, KOREAN ISHA Liquid Cat. 3, Acute Oral Toxicity 1, Skin Irritation Cat. 2, STOT Cat. 3, STOT (Inhalation-Narcotic H226, H302, H318, H315,
Primary Alkyl Alcohol			Pi	roprietary			15-20%	GHS & EU CLP 1272/200 Classification: Flammable Cat. 3, Acute Dermal To Toxicity Cat. 3, STOT (In	, R23/24/25, R39/23,24,25 8, KOREAN ISHA Liquid Cat. 2, Acute Oral Toxicity xicity Cat. 3, Acute Inhalation
Alkenoic Acid			Pi	roprietary			5-10%	SELF-CLASSIFICATION EU 67/548 Classification: Irritant Risk Phrase Codes: Xi GHS & EU CLP 1272/200 Classification: Skin Irritatic Hazard Statement Codes	on Cat. 2
Cyclic Secondary Amine			Pr	roprietary			3-7%	Cat. 4, Acute Dermal Tox Toxicity Cat. 4, Skin Cor	, R20/21/22, R34 8, KOREAN ISHA Liquid Cat. 3, Acute Oral Toxicity xicity Cat. 4, Acute Inhalation

See Section 16 for full text of classification. See Section 15 for information on other country inventory listing of components, as applicable

PART II What should I do if a hazardous situation occurs?

4 FIRST-AID MEASURES

PROTECTION OF FIRST AID RESPONDERS: Rescuers should be taken for medical attention if necessary. Remove or cover gross contamination to avoid exposure to rescuers.

escription of First AID MEASURES: Persons developing hypersensitivity reactions should receive medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Take a copy of label and SDS to physician or health professional with the contaminated individual.

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4 FIRST-AID MEASURES (Continued)

DESCRIPTION OF FIRST AID MEASURES (continued):

Skin Exposure: Wash gently and thoroughly with water for 20 minutes or until chemical is removed. While under running water, remove contaminated clothing, shoes and leather goods. Seek medical attention if adverse effect persists after decontamination.

Eye Exposure: If this product contaminates the eyes, rinse eyes under gently running water. Use sufficient force to open eyelids and then "roll" eyes while flushing. Minimum flushing is for 20 minutes. The contaminated individual must seek medical attention if any adverse effect continues after rinsing.

Inhalation: If vapors of this product are inhaled, causing irritation, remove victim to fresh air. If necessary, support vital functions. Seek medical attention if adverse effect continues after removal to fresh air.

Ingestion: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. Lean victim forward to avoid aspiration into the lungs if vomiting occurs naturally. If victim is convulsing, maintain an open airway and obtain immediate medical attention. If heart or breathing has stopped, trained persons should administer cardiopulmonary resuscitation (CPR) until medical personnel arrive.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory or skin conditions may be aggravated by repeated exposure to this product.

IMPORTANT SYMPTOMS AND EFFECTS: See Sections 2 (Hazard Identification) and 11 (Toxicological Information).

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT (Cleveland open cup): 40.5°C (105°F)
AUTOIGNITION TEMPERATURE: Not established.

FLAMMABLE LIMITS (in air by volume, %): LEL: 1.1% UEL: 10.6%

FIRE EXTINGUISHING MEDIA: In the event of a fire, use suppression media for surrounding materials (e.g., water spray, dry chemical, carbon dioxide, foam, any "ABC" class extinguisher).

UNSUITABLE FIRE EXTINGUISHING MEDIA: Halons.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE: This product is combustible. When involved in a fire, this material may decompose and produce irritating vapors and toxic compounds (including carbon oxides). Vapors can travel a long distance to an ignition source and flash back.

Explosion Sensitivity to Mechanical Impact Not sensitive.

<u>Explosion Sensitivity to Static Discharge:</u> Vapors from this product may be ignited by static energy.

NFPA RATING
FLAMMABILITY

2

OTHER

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Senous 4 = Severe

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. In cause fire involving large volume of product, water may be ineffective to completely extinguish fire; however, water can be used to extinguish the fire when a number of hose streams are applied by experienced firefighters to sweep the flames off the surface of the burning liquid. Water can also be applied as a fine spray to absorb the heat of the fire and to cool exposed containers and materials, and can be used to extinguish the fire when hose streams are applied by experienced firefighters trained in fighting all types of combustible liquid fires. Water can also be applied as a fine spray to absorb the heat of the fire and to cool exposed containers and materials, and can be used to extinguish the fire when hose streams are applied by experienced firefighters trained in fighting all types of combustible liquid fires. Water spray can be used to dilute spills to raise the flash point and to flush spills away from ignition sources. Solid streams of water may be ineffective and spread material. If this liquid is involved in a fire, fire runoff water should be contained to prevent possible environmental damage. If necessary, decontaminate fire-response equipment with soap and water solution.

HAZCHEM CODE (AUSTRALIA): 3Y

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Eliminate any possible sources of ignition, and provide maximum explosion-proof ventilation. Use only non-sparking tools and equipment during the response. Call CHEMTREC (1-800-424-9300) for emergency assistance. Or if in Canada, call CANUTEC (613-996-6666). The atmosphere must at least 19.5 percent Oxygen before non-emergency personnel can be allowed in the area without Self-Contained Breathing Apparatus and fire protection.

PERSONAL PROTECTIVE EQUIPMENT: Proper protective equipment should be used. Use only non-sparking tools and equipment.

3mall Spills: Wear rubber gloves, splash goggles, and appropriate body protection.

arge Spills: Minimum Personal Protective Equipment should be rubber gloves, rubber boots, face shield, and Tyvek suit. Minimum level of personal protective equipment for releases in which the level of oxygen is less than 19.5% or is unknown must be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard hat, and Self-Contained Breathing Apparatus.

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6. ACCIDENTAL RELEASE MEASURES (Continued)

METHODS FOR CLEAN-UP AND CONTAINMENT:

Small Spills: Carefully absorb spill using polypads or other non-reactive absorbent. Place spilled material in appropriate container for disposal, sealing tightly. Remove all residue before decontamination of spill area.

Large Spills: Access to the spill area should be restricted. For large spills, dike or otherwise contain spill and absorb spill with polypads or other non-reactive absorbent material. Monitor area for combustible vapor levels.

All Spills: Place all spill residue in a double plastic bag or other containment and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Run-off water may be materials and should be contained to prevent possible environmental damage.

REFERENCE TO OTHER SECTIONS: See information in Section 8 (Exposure Controls – Personal Protection) and Section 13 (Disposal Considerations) for additional information.

PART III How can I prevent hazardous situations from occurring?

7. HANDLING and USE

PRECAUTIONS FOR SAFE HANDLING: All employees who handle this material should be trained to handle it safely. Minimize all exposure to this substance. As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing this product. Keep away from heat, sparks, and other sources of ignition. Use non-sparking tools. Bond and ground containers during transfers of material. Containers of this product must be properly labeled.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Containers should be separated from oxidizing materials by a minimum distance of 20 ft. or by a barrier of non-ombustible material at least 5 ft. high having a fire-resistance rating of at least 0.5 hours. Storage areas should be made of fire resistant materials. Local Fire Departments should be notified of the storage of this product on site. Storage and processing areas of this product should be identified with a NFPA 704 placard (diamond) large enough to be seen from a distance. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Have appropriate extinguishing equipment in the storage area (such as sprinkler systems or portable fire extinguishers). Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Refer to NFPA 30, Flammable and Combustible Liquids Code, for additional information on storage.

SPECIFIC END USE(S): This product is a diesel fuel additive. Follow all industry standards for use of this product.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Decontaminate equipment thoroughly, before maintenance begins. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/CONTROL PARAMETERS:

Ventilation and Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits provided in this section, if applicable. Use a non-sparking, grounded, explosion-proof ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside, taking necessary precautions for environmental protection. Ensure eyewash/safety shower stations are available near where this product is used.

Occupational/Workplace Exposure Limits/Guidelines:

CHÉMICAL	CAS#								
NAME	ļ	ACGI	-I-TLVs	OSH/	A-PELs	NIOS	H-RELs	NIOSH	OTHER
		TWA	STEL	TWA	STEL	TWA	STEL	IDLH	1
		ppm	ppm	ррт	ppm	ррт	ppm	ррт	ppm
n-Butył Alcohol	71-36-3	20	NE NE	100	50 (ceiling) [Vacated 1989 PEL]	NE	50 [skin] (ceiling)	1400 (based on 10% of LEL)	DFG MAKs: TWA = 100 PEAK = 1•MAK 15 min. average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: C Carcinogen: EPA-D

NE = Not Established. See Section 16 for Definitions of Terms Used.



EXPOSURE LIMITS/CONTROL PARAMETERS (continued):

Occupational/Workplace Exposure Limits/Guidelines (continued):

CHEMICAL	CAS#								
NAME		ACGIH-TLVs		OSHA-PELs		NIOSH-RELs		NIOSH	OTHER
		TWA	STEL	TWA	STEL	TWA	STEL	IDLH:	
		ррт	ррт	ppm	ррт	ppm	ррт	ррт	ppm
Ethylene Glycol Monobutyl Alcohol	111-76-2	20	NE	50 (skin) 25 (Vacated 1989 PEL)	300 (Vacated 1989 PEL)	5 (skin)	NE	700	DFG MAKs: TWA = 10 (sum of the concentrations of) [skin] PEAK = 2*MAK 15 min. average value, 1-hr Interval, 4 per shift DFG MAK Pregnancy Risk Classification: C Carcinogen: EPA-CBD, EPA-C, IARC-3, MAK-4, TLV-A3
Proprietary Primary Alkyl Alcohol		200 (skin)	250 (skin)	200	250 (Vacated 1989 PEL)	200 (skin)	260 (skin)	6000	DFG MAKs: TWA = 200 (skin) PEAK = 4 • MAK 15 min. average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: C
Proprietary Cyclic Secondary Amine		20 (skin)	NE	20 (skin)	30 (Vacated 1989 PEL)	20 (skin)	30 (skin)	1400 (based on 10% of LEL)	DFG MAKs: TWA = 10 PEAK = 2 • MAK 15 min, average value, 1-hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: D Carcinogen: IARC-3, TLV-A4
Proprietary Alkenoic Acid		NE	NE	NE	NE	NE	NE	NE	Carcinogen: MAK-3

NE = Not Established. See Section 16 for Definitions of Terms Used.

Workplace Exposure Standards (New Zealand): None established. Refer to the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations 2001 (Regulations 29-30).

Exposure Standards Outside the Workplace (New Zealand): Currently, there are no other exposure limits, such as TELS and EELS (See Section 12 [Ecological Information] for EEL information) established for components of this product.

Other International Exposure Limits: The following additional international exposure limits are in force some components.

Exposure limits change and appropriate authorities should be in individual countries should be contacted to determine if more recent information is available.

n-BUTYL ALCOHOL:

Habot Te Accorde:

Australia: CL = 50 ppm (152 mg/m³), JUL 2008

Belgium: TWA = 50 ppm (154 mg/m³), Skin, MAR 2002

Denmark: CL = 50 ppm (150 mg/m³), skin, MAY 2011

Finland: TWA = 50 ppm (150 mg/m³), STEL = 75 ppm (230 mg/m³), skin, NOV 2011

France: VLE = 50 ppm (150 mg/m³), FEB 2006

Germany: MAK = 100 ppm (310 mg/m³), 2011

Hungary: TWA = 45 mg/m³, STEL = 90 mg/m³, Skin, SEP 2000

India: TWA = 50 ppm (150 mg/m³), Skin, JAN 1993

Iceland: STEL = 50 ppm (150 mg/m³), skin, NOV 2011

Japan: CL = 50 ppm (150 mg/m³), skin, MAY 2012 Korea: CL = 50 ppm (150 mg/m³), 2006

Norea: CL = 50 ppm (150 mg/m²), 2006

Mexico: Peak = 50 ppm (150 mg/m²) (skin), 2004

New Zealand: CL = 50 ppm (150 mg/m³), skin, JAN 2002

Norway: TWA = 25 ppm (75 mg/m³), JAN 1999

Peru: TWA = 20 ppm (61 mg/m³); STEL = 50 ppm (152 mg/m²), JUL 2005

The Philippines: TWA = 100 ppm (300 mg/m³), JAN 1993

Poland: TWA = 50 mg/m³, STEL 140 mg/m³, JAN 1999

Russia: TWA = 10 mg/m³, STEL 30 mg/m³, JUN 2003

Sweden: TWA = 15 ppm (45 mg/m³), CL = 30 ppm (90 mg/m³), Skin, JUN 2005 Switzerland: CL = 50 ppm (150 mg/m³), JAN 2011 Turkey: TWA = 100 ppm (300 mg/m²), JAN 1993

United Kingdom: STEL = 50 ppm (154 mg/m³), skin, OCT 2007 In Argentina, Bulgaria, Colombia, Jordan, Korea, New Zealand, Singapore, Vietnam,

check ACGIH TLV

ETHYLENE GLYCOL MONOBUTYL ETHER:

Australia: TWA = 20 ppm (96.9 mg/m³), STEL = 50 ppm (242 mg/m³), JUL 2008 Austria: MAK-TMW 20 ppm (98 mg/m³); KZW = 40 ppm (200 mg/m³), skin, 2007 Belgium: TWA = 20 ppm (98 mg/m²), MAR 2002

Beigium: IVVA = 20 ppm (98 mg/m²), MAR 2002

Denmark: TWA = 20 ppm (98 mg/m³), Skin, MAR 2002

Denmark: TWA = 20 ppm (98 mg/m³), skin, MAY 2011

EC: TWA = 98 mg/m³ (20 ppm); STEL = 246 mg/m³ (50 ppm), skin, JUN 2000

Finland: TWA = 20 ppm (98 mg/m³), STEL = 50 ppm (250 mg/m³), skin, NOV 2011

France: VME = 2 ppm (9.8 mg/m³), VLE = 30 ppm (147.6 mg/m³), Skin, FEB 2006

France: VME = 2 ppm (3.6 mg/m³), skin, 2011

Germany: MAK = 10 ppm (49 mg/m³), skin, 2011

Hungary: TWA = 98 mg/m³, STEL = 246 mg/m³, Skin, SEP 2000

Iceland: TWA = 20 ppm (100 mg/m³), STEL = 50 ppm (246 mg/m³), skin, NOV 2011

Korea: TWA = 25 ppm (120 mg/m³), skin, 2006

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):
Mexico: TWA = 26 ppm (120 mg/m²); STEL = 75 ppm (skin), 2004
The Netherlands: MAC-TGG = 100 mg/m³, Skin, 2003
New Zealand: TWA = 25 ppm (121 mg/m³), skin, JAN 2002
Norway: TWA = 20 ppm (100 mg/m³), JAN 1999
Peru: TWA = 20 ppm (97 mg/m³); STEL = 50 ppm (242 mg/m³), JUL 2005
The Philippines: TWA = 50 ppm (240 mg/m³), Skin, JAN 1993
Poland: MAC(TWA) = 100 mg/m³, MAC(STEL) = 360 mg/m³, JAN 1999
Russia: STEL = 5 mg/m³, JUN 2003
Sweden: TWA = 10 ppm (50 mg/m³): STEL = 20 ppm (100 mg/m³), Skin, JI

Sweden: TWA = 10 ppm (50 mg/m³); STEL = 20 ppm (100 mg/m³), Skin, JUN 2005 Switzerland: MAK-W = 10 ppm (49 mg/m³), KZG-W = 20 ppm (98 mg/m³), skin, JAN

Turkey: TWA = 50 ppm (240 mg/m³), JAN 1993 United Kingdom: TWA = 25 ppm (123 mg/m³); STEL = 50 ppm (246 mg/m³), skin, OCT

2007 In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam check ACGIH TLV

PRIMARY ALKYL ALCOHOL:

ARAB Republic of Egypt: TWA = 200 ppm (260 mg/m³), Skin, JAN 1993 Australia: TWA = 200 ppm (262 mg/m³), STEL = 250 ppm (328 mg/m³), JUL 2008 Austria: MAK-TMW = 200 ppm (260 mg/m³); KZW = 800 ppm (1040 mg/m³), skin,

Belgium: TWA = 200 ppm (266 mg/m³), MAR 2002 Belgium: STEL = 250 ppm (333 mg/m³), Skin, MAR 2002 Denmark: TWA = 200 ppm (260 mg/m³), skin, MAY 2011 EC: TWA = 260 mg/m³ (200 ppm), skin, FEB 2006

EC: TWA = 260 mg/m³ (200 ppm), skln, FEB 2006 Finland: TWA = 200 ppm (270 mg/m³), STEL = 250 ppm (330 mg/m³), skin, NOV 2011 France: VME = 200 ppm (260 mg/m³), VLE = 1000 ppm (1300 mg/m³), FEB 2006 Germany: MAK = 200 ppm (270 mg/m³), 2011 Hungary: TWA = 260 mg/m³, STEL 1040 mg/m³, Skin, SEP 2000 Iceland: TWA = 200 ppm (260 mg/m³), skin, NOV 2011 Japan: OEL = 200 ppm (260 mg/m³), skin, NOV 2012 Korea: TWA = 200 ppm (260 mg/m³), STEL = 250 ppm (310 mg/m³), skin, 2006 Mexico: TWA = 200 ppm (260 mg/m³); STEL = 310 mg/m³ (250 ppm), 2004 The Netherlands: MAC-TGG = 260 mg/m³, Skin, 2003 New Zealand: TWA = 200 ppm (262 mg/m³); STEL = 250 ppm (328 mg/m³), skin, JAN 2002

Norway: TWA = 100 ppm (130 mg/m3), JAN 1999

Peru: TWA = 200 ppm (262 mg/m³); STEL = 250 ppm (328 mg/m³), JUL 2005

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EXPOSURE LIMITS/CONTROL PARAMETERS (continued):

International Exposure Limits (continued):

PRIMARY ALKYL ALCOHOL (continued):

The Philippines: TWA = 200 ppm (260 mg/m³), JAN 1993
Poland: MAC(TWA) = 100 mg/m³, MAC(STEL) = 300 mg/m³, JAN 1999
Russia: TWA = 5 mg/m³, STEL 15 mg/m³, Skin, JUN 2003

Sweden: TWA = 200 ppm (250 mg/m3); STEL = 250 ppm (350 mg/m3), Skin, JUN

Switzerland: MAK-W = 200 ppm (260 mg/m3), KZG-W = 800 ppm (1040 mg/m3), skin,

JAN 2011 Thailand: TWA = 200 ppm (260 mg/m³), JAN 1993 Turkey: TWA = 200 ppm (260 mg/m³), JAN 1993

United Kingdom: TWA = 200 ppm (266 mg/m3); STEL = 250 ppm (333 mg/m3), skin,

OCT 2007 In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam, check ACGIH TLV

CYCLIC SECONDARY AMINE

Australia: TWA = 20 ppm (71 mg/m3), JUL 2008

Austria: MAK-TMW = 10 ppm (36 mg/m³); KZW = 10 ppm (36 mg/m³), skin, 2007

Belgium: TWA = 10 ppm (36 mg/m²), MAR 2002 Belgium: STEL = 20 ppm (72 mg/m³), Skin, MAR 2002 Denmark: TWA = 10 ppm (36 mg/m²), skin, MAY 2011

EC: TWA = 36 mg/m3 (10 ppm); STEL = 72 mg/m3 (20 ppm), FEB 2006 Finland: TWA = 10 ppm (36 mg/m³), STEL = 20 ppm (72 mg/m³), skin, NOV 2011 France: VME = 20 ppm (70 mg/m³), VLE = 30 ppm (105 mg/m³), FEB 2006

CYCLIC SECONDARY AMINE (continued):

Germany: MAK = 10 ppm (36 mg/m³), 2011 Hungary: TWA = 70 mg/m³, STEL = 70 mg/m³, Skin, SEP 2000

lceland: TWA = 10 ppm (36 mg/m³), STEL = 20 ppm (72 mg/m³), skin, NOV 2011 Korea: TWA = 20 ppm (70 mg/m³), STEL = 30 ppm (105 mg/m³), skin, 2006 Mexico: TWA = 20 ppm (70 mg/m³); STEL = 30 ppm (skin), 2004

The Netherlands: MAC-TGG = 36 mg/m³, Skin, 2003

New Zealand: TWA = 20 ppm (71 mg/m³), skin, JAN 2002

Norway: TWA = 20 ppm (70 mg/m³), JAN 1999

Peru: TWA = 20 ppm (71 mg/m³), JUL 2005

The Philippines: TWA = 20 ppm (70 mg/m³), Skin, JAN 1993

Poland: MAC(TWA) = 70 mg/m³, MAC(STEL) = 100 mg/m³, JAN 1999

Russia: TWA = 0.5 mg/m³, STEL = 1.5 mg/m³, Skin, JUN 2003

Sweden: TWA = 10 ppm (35 mg/m³); STEL = 15 pp/m (50 mg/m²), Skin, JUN 2005

Switzerland: MAK-W = 10 ppm (36 mg/m³), KZG-W = 20 ppm (72 mg/m³), skin, JAN

United Kingdom: TWA = 10 ppm (36 mg/m3); STEL = 20 ppm (72 mg/m3), skin, OCT

In Argentina, Bulgaria, Colombia, Jordan, Korea, New Zealand, Singapore, Vietnam check ACGIH TLV

ALKENOIC ACID: Russia: STEL = 5 mg/m3, JUN 2003

PROTECTIVE EQUIPMENT: The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including U.S. Federal OSHA Respiratory Protection (29 CFR 1910.134), OSHA Eye Protection 29 CFR 1910.133, OSHA Hard Protection 29 CFR 1910.138, OSHA Foot Protection 29 CFR 1910.136 and OSHA Body Protection 29 CFR1910.132), equivalent standards of Canada (including CSA Respiratory Standard Z94.4-02, Z94.3-M1982, Industrial Eye and Face Protectors and CSA Standard Z195-02, Protective Footwear), standards of EU member states (including EN 529:2005 for respiratory PPE, CEN/TR 15419:2006 for hand/body protection, and CR 13464:1999 for face/eye protection), standards of Australia (including AS/NZS 1715:1994 for respiratory PPE, AS/NZS 4501.2:2006 for protective clothing, AS/NZS 2161.1:2000 for glove selection, and AS/NZS 1336:1997 for eye protection), or standards of Japan (including JIS T 8116:2005 for glove selection, JIS T 8150:2006 for respiratory PPE, JIS T 8147:2003 for eye protectors, and JIS T 8030:2005 for protective clothing). Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Maintain airborne contaminant concentrations below exposure limits listed in this section, if applicable. If respiratory protection is needed, use only protection authorized in applicable regulations. Oxygen levels below 19.5% are considered IDLH by U.S. OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). For additional information, the following U.S. NIOSH recommendations for respiratory protection for the n-Butyl Alcohol, Primary Alkyl Alcohol and Ethylene Glycol Monobutyl Ether components, are provided below to assist in respiratory protection equipment.

n-BUTYL ALCOHOL

CONCENTRATION

RESPIRATORY PROTECTION

Up to 1250 ppm:

Any Supplied-Air Respirator (SAR) operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator (PAPR) with organic vapor cartridge(s).

Up to 1400 ppm: Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s), or any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting facepiece and organic vapor cartridge(s), or any Self-Contained Breathing Apparatus (SCBA) with a full facepiece, or any

SAR with a full facepiece.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressuredemand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or

other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-

demand or other positive-pressure mode.

Escape:

Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or

any appropriate escape-type, SCBA.

ETHYLENE GLYCOL MONOBUTYL ETHER

<u>CONCENTRATION</u>

RESPIRATORY PROTECTION

Up to 50 ppm: Up to 125 ppm: Any Chemical Cartridge Respirator with organic vapor cartridge(s), or any Supplied-Air Respirator (SAR).

Up to 250 ppm:

Any SAR operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator (PAPR) with organic vapor

Any Chemical Cartridge Respirator with a full facepiece and organic vapor cartridge(s), or any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting facepiece and organic vapor cartridge(s), or any Self-Contained Breathing Apparatus (SCBA) with a full facepiece, or any

SAR with a full facepiece.

Up to 700 ppm:

Any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Emergency or Planned Entry Into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressuredemand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or

other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-

Escape:

Any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or

any appropriate escape-type, SCBA.

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PROTECTIVE EQUIPMENT (continued):

Respiratory Protection (continued):

PRIMARY ALKYL ALCOHOL

CONCENTRATION
Up to 2000 ppm:
RESPIRATORY PROTECTION
Any Supplied-Air Respirator (SAR).

Up to 5000 ppm: Any SAR operated in a continuous-flow mode.

Up to 6000 ppm: Any SAR that has a tight-fitting facepiece and is operated in a continuous-flow mode, or any Self-Contained Breathing

Apparatus SCBA with a full facepiece, or any SAR with a full facepiece.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressure-

demand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-

VAPOR DENSITY: 2,71

pressure mode.

Escape: Any appropriate escape-type, SCBA.

Eye Protection: Splash goggles or safety glasses. If necessary, refer to appropriate regulations.

Hand Protection: Wear gloves appropriate for use with glycol ethers and alcohols. Use triple gloves for spill response, as stated in

Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to appropriate regulations.

Body Protection: If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment) or appropriate Standards of Canada. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection under appropriate regulations.

9. PHYSICAL and CHEMICAL PROPERTIES

FORM: Liquid. COLOR: Yellowish.

MOLECULAR FORMULA: Mixture. MOLECULAR WEIGHT: Mixture.

ODOR: Mild, sweet, ether-like.

ODOR THRESHOLD: For Cyclic Secondary Amine:

0.011 ppm

BOILING POINT: 123°C (253.5°F) FREEZING/MELTING POINT: Not established.

EVAPORATION RATE (nBuAc = 1): 0|41 SOLUBILITY IN WATER: 100%

VAPOR PRESSURE (air = 1): 4.0 SPECIFIC GRAVITY @20°C (water = 1): 0.85

SPECIFIC GRAVITY @20°C (water = 1): 0.85 pH: Not established.

COEFFICIENT WATER/OIL DISTRIBUTION: Not available for product.

HOW TO DETECT THIS SUBSTANCE (identification properties): The appearance and odor of this product can be a distinguishing characteristic to identify it in event of accidental release.

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: This product is stable and is not reactive.

DECOMPOSITION PRODUCTS: Combustion: Irritating fumes and toxic gases (e.g., carbon dxides, nitrogen oxides, ammonia, hydrogen cyanide, peroxides and formaldehyde). *Hydrolysis*: None.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This material may be incompatible with strong oxidizing agents (e.g. bromine, chlorine, chromium trioxide, nitric acid, perchlorates or sodium hypochlorite), hydrogen peroxide, metals (e.g. powdered aluminum or magnesium), carbon tetrachloride and metals (e.g. aluminum, magnesium or zinc), alkali metals (e.g. sodium or potassium), acetyl bromide, dichloromethane, perchloric acid or metal perchlorates (e.g. barium perchlorate or lead perchlorate), potassium tert-butoxide, alkylaluminum solutions, beryllium hydride, cyanuric chloride, isocyanates or phosphorus (iii) oxide (tetraphosphorus hexaoxide), diethyl zinc, mineral acids (e.g. sulfuric acid), organic acids, acid anhydrides, acid chlorides or sodium hydroxide and chloroform, cellulose nitrate, nitromethane, nitrites, nitrous acid, nitrogen oxides, aluminum, halogens (e.g. bromine or chlorine), lithium aluminum hydride, isocyanates (e.g. toluene diisocyanate, hexamethylene diisocyanate or methyl isocyanate).

POSSIBILITY OF HAZARDOUS REACTIONS/POLYMERIZATION: Will not occur. CONDITIONS TO AVOID: Avoid heat, light, and contact with incompatible chemicals.

PART IV Is there any other useful information about this material?

11. TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of occupational exposure are expected to be by inhalation, skin and eye contact. The symptoms of exposure to this product are as follows:

Inhalation: Inhalation of mists, sprays fumes or vapors from this product may cause central nervous system effects, including incoordination, dizziness, drowsiness, headache, nausea and vomiting. In addition, inhalation of high concentration may cause corrosive effects such as a burning sensation, sore throat, runny nose, coughing, wheezing, shortness of breath and difficulty breathing. In severe cases, potentially fatal lung injury (pulmonary edema) may result. The symptoms of pulmonary edema, such as chest pain and shortness of breath, may be delayed up to 24 hours after exposure. Due to the high level of Ethylene Glycol Monobutyl Ether, short-term exposure by inhalation may cause adverse blood system effects (red blood cell fragility, hemoglobinuria) at low concentrations, based on animal tests.

Contact with Skin or Eyes: Contact with the liquid and the eyes will cause severe irritation. Vapor contact will cause irritation, including stinging, redness and tearing. Vapor contact may also produce temporary blurring of vision with a general bluish or

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grayish haze and the appearance of hald	os around lights. Prolonged eye contact may cause damage to tiss	sųe.
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K100D & K100MD SDS



11. TOXICOLOGICAL INFORMATION (Continued)

SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE (continued):

Contact with Skin or Eyes (continued): Skin contact may be irritating. Prolonged skin contact may cause defatting of the skin and dermatitis and may cause severe irritation, burns, blistering and permanent scarring.

Skin Absorption: Components of this product can be absorbed through the skin and may cause harmful effect if a large area of skin is involved or contact is prolonged. Symptoms may include adverse central nervous system effects described under 'Inhalation' and 'Ingestion' and adverse blood system effects.

Ingestion: Ingestion is not a significant route of occupational exposure. Ingestion of this product can cause adverse central nervous system effects, with symptoms such as dizziness, incoordination, drowsiness, headache, nausea and vomiting. Due to the presence of the Primary Alkyl Alcohol, severe vision effects, including increased sensitivity to light, blurred vision, and blindness may develop following an 8-24 hour symptom-free period if ingested. Due to the high level of Ethylene Glycol Monobutyl Ether, ingestion may cause adverse blood system effects (red blood cell fragility, hemoglobinuria) at low concentrations, based on animal tests. Ingestion of products containing glycol ethers may cause harm to kidneys. Aspiration into the lungs is a potential hazard after ingestion.

Injection: Though not anticipated to be a significant route of exposure for this product, injection (via punctures or lacerations by contaminated objects) may cause redness at the site of injection.

IRRITANCY OF PRODUCT: This product may mildly to moderately irritate contaminated tissue.

SENSITIZATION OF PRODUCT: No component of this product is known to cause human skin or respiratory sensitization. The Alkenoic Acid component has been shown to cause skin sensitization in a laboratory animal assay in animals.

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe *= Chronic hazard

For Routine Industrial Use and Handling Applications

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

(BLUE)

(RED)

2

BODY

SEE SECTION 8

HEALTH HAZARD

EYES

뎅

FLAMMABILITY HAZARD

RESPIRATOR

SEE SECTION 8

PHYSICAL HAZARD (YELLOW)

PROTECTIVE EQUIPMENT

HANDS

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Exposure to this product may cause the following health effects:

Acute: This product may be harmful by inhalation, ingestion or if absorbed via intact skin. Ingestion may be fatal or cause significant eye effects or blindness. Inhalation of high concentration may be fatal or may cause adverse blood effects. Eye contact may cause severe irritation. Skin contact may be irritating.

Chronic: Prolonged or chronic skin contact may cause dermatitis. Long-term occupational exposure (inhalation and dermal) to ethylene glycol ethers, including Ethylene Glycol Monobutyl Ether, may be associated with increased oxalic acid loads, which can alter kidney function and may result in kidney stones.

TARGET ORGANS:

Acute: Skin, eyes, respiratory system, central nervous system, blood, blood-forming system. Chronic: Skin, kidneys.

TOXICITY DATA: The following toxicity data are available for components of 1% concentration or greater. Due to the large amount of data for components, only available human data, LD50 (Oral-Rat or Mouse), LD50 (Skin-Rabbit or Rat), LC50 (Inhalation-Rat or Mouse), mutation data and irritation data are provided in this SDS. Contact Kinetic Fuel Technology for information on other data available.

n-BUTYL ALCOHOL:

Standard Draize Test (Eye-Human) 50 ppm

Standard Draize Test (Eye-Human) 990 ppm/1 hour Standard Draize Test (Skin-Human) 20 µL/20 minutes

TCLo (Inhalation-Human) 25 ppm: Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Sense Organs and Special Senses (Eye): conjunctive irritation; Lungs, Thorax, or Respiration; other changes

TDLo (Eye-Human) 72.5 mg/m3: Sense Organs and Special Senses (Eye): conjunctive irritation

LDLo (Oral-Human) 428 mg/kg Standard Draize Test (Skin-Rabbit) 20 mg/24 hours: Moderate

Standard Draize Test (Eye-Rabbit) 2 mg/24 hours: Severe

Standard Draize Test (Eye-Rabbit) 1.62 mg: Severe

Standard Draize Test (Eye-Rabbit) 0.005 mL: Severe

LD₅₀ (Cral-Rat) 790 mg/kg: Liver: fatty liver degeneration; Kidney/Ureter/Bladder: other changes; Blood: other changes

LD₅₀ (Oral-Rat) 4.36 gm/kg: Gastrointestinal: gastritis Liver: other changes; Blood: hemorrhage

LD₅₀ (Oral-Rat) 0.79 gm/kg

LD_{so} (Oral-Mouse) 100 mg/kg

LD_{so} (Skin-Rabbit) 3400 mg/kg

ETHYLENE GLYCOL MONOBUTYL ETHER:

Open Irritation Test (Skin-Rabbit) 500 mg: Mild Standard Draize Test (Eye-Rabbit) 100 mg: Severe

Standard Draize Test (Eye-Rabbit) 100 mg/24 hours: Moderate

LDLo (Oral-Human) 143 mg/kg

TDLo (Oral-Woman) 600 mg/kg: Behavioral: coma; Lungs, Thorax, or Respiration: dyspnea; Nutritional and Gross Metabolic: metabolic acidosis

ETHYLENE GLYCOL MONOBUTYL ETHER (continued):

TDLo (Oral-Woman) 7813 µL/kg: Behavioral: coma; Vascular: BP lowering not characterized in autonomic section; Nutritional and Gross Metabolic: metabolic

TCLo (Inhalation-Human) 195 ppm/8 hours: Gastroin estinal: nausea or vomiting

TCLo (Inhalation-Human) 100 ppm: Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Sense Organs and Special Senses (Eye): effect, not

otherwise specified; Lungs, Thorax, or Respiration other changes
TCLo (Inhalation-Human) 1500 mg/m²: Sense O(gans and Special Senses (Eye):
conjunctive irritation; Liver: other changes; Kidney/Ureter/Bladder: other changes

LCso (Inhalation-Rat) 450 ppm/4 hours: Behavioral: ataxia; Nutritional and Gross Metabolic: weight loss or decreased weight gain

LC_{so} (Inhalation-Rat) 2900 mg/m³/7 hours: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia

(Inhalation-Mouse) 3380 mg/m³/7 hours: Liver: other Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia LC₅₀ (Inhalation-Mouse) 700 ppm/7 hours: Behavioral: analgesia; Lungs, Thorax, or

Respiration: dyspnea; Kidney/Ureter/Bladder: hematuria

LD₅₀ (Oral-Rat) 470 mg/kg LD₅₀ (Oral-Rat) 917 mg/kg: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia

LD₅₀ (Oral-Mouse) 1230 mg/kg: Behavioral: altered sleep time (including change in righting reflex), somnolence (general depressed activity); Skin and Appendages: hair

LDso (Oral-Mouse) 1167 mg/kg: Liver: other changes; Kidney/Ureter/Bladder: other changes; Blood: other hemolysis with or without anemia

LD_{so} (Skin-Rabbit) 220 mg/kg

Mutation in Microorganisms (Bacteria-Salmonella typhimurium) 19 µmol/plate



11. TOXICOLOGICAL INFORMATION (Continued)

TOXICITY DATA (continued):

PRIMARY ALKYL ALCOHOL

TDLo (Oral-Man) 3571 µL/kg: Sense Organs and Special Senses (Eye): visual field changes; Lungs, Thorax, or Respiration: dyspnea; Blood; other changes

TDLo (Oral-Man) 9450 µL/kg: Sense Organs and Special Senses (Eye): mydriasis (pupillary dilation); Behavioral: general anesthetic; Nutritional and Gross Metabolic: body temperature decrease

TDLo (Oral-Man) 3429 mg/kg: Sense Organs and Special Senses (Eye): visual field

TDLo (Oral-Woman) 4 gm/kg: Sense Organs and Special Senses (Eye): visual field changes; Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal: nausea or

LDLo (Oral-Man) 6422 mg/kg: Brain and Coverings: changes in circulation (hemorrhage, thrombosis, etc.); Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal; nausea or

LDLo (Oral-Woman) 10 mL/kg: Lungs, Thorax, or Respiration: respiratory depression; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: multiple enzyme effects; Gastrointestinal: changes in structure or function of endocrine

LDLo (Oral-Human) 428 mg/kg: Behavioral: headache; Lungs, Thorax, or Respiration: other changes

LDLo (Oral-Human) 143 mg/kg: Sense Organs and Special Senses (Eye): optic nerve neuropathy; Lungs, Thorax, or Respiration: dyspnea; Gastrointestinal: nausea or

LDLo (Unreported-Man) 868 mg/kg
TCLo (Inhalation-Human) 86,000 mg/m³: Sense Organs and Special Senses (Eye): lacrymation; Lungs, Thorax, or Respiration: cough, other changes

TCLo (Inhalation-Human) 300 ppm: Sense Organs and Special Senses (Eye): visual field changes; Behavioral: headache; Lungs, Thorax, or Respiration: other changes Standard Draize Test (Skin-Rabbit) 20 mg/24 hours: Moderate

Standard Draize Test (Eye-Rabbit) 40 mg: Moderate

Standard Draize Test (Eye-Rabbit) 100 mg/24 hours: Moderate

LD₅₀ (Oral-Rat) 5600 mg/kg

LD₅₀ (Oral-Mouse) 7300 mg/kg

LD₅₀ (Skin-Rabbit) 15,800 mg/kg LC₅₀ (Inhalation-Rat) 64000 ppm/4 hours LC₅₀ (Inhalation-Rabbit) 81000 mg/m3/14 hours

DNA Inhibition (Human Lymphocyte) 300 mmol/L

PRIMARY ALKYL ALCOHOL (continued):

DNA Repair (Bacteria-Escherichia coli) 20 mg/we!l

Mutation in Microorganisms (Yeast-Saccharomyces carevisiae) 12 pph Mutation in Microorganisms (Mouse Lymphocyte) 7900 mg/L

Sex Chromosome Loss and Non-Disjunction (Mold-Aspergillus nidulans) 56,000 ppm

Cytogenetic Analysis (Parenteral-Grasshopper) 3000 ppm

Cytogenetic Analysis (Oral-Mouse) 1 gm/kg

Cytogenetic Analysis (Intraperitoneal-Mouse) 75 mg/kg
DNA Damage (Oral-Rat) 10 µmol/kg
Morphological Transformation (Mouse-Fibroblast) 0.01 mg/L/21 days

CYCLIC SECONDARY AMINE:

Open Irritation Test (Skin-Rabbit) 500 mg: Moderate Standard Draize Test (Eye-Rabbit) 2 mg: Severe

LC_{so} (Inhalation-Rat) 8000 ppm/8 hours

LC₅₀ (Inhalation-Mouse) 1320 mg/m³/2 hours: Sense Organs and Special Senses (Eye): lacrymation; Behavioral: ataxia; Lungs, Thorax, or Respiration: cyanosis

LC_{so} (Inhalation-Mouse) 12,000 mg/m³: Behavioral: alteration of classical conditioning LC₅₀ (Inhalation-Mouse) 1.35 gm/m

LD₅₀ (Oral-Rat) 1738 mg/kg: Kidney/Ureter/Bladder changes in blood vessels or in circulation of kidney

LD₅₀ (Oral-Mouse) 525 mg/kg: Behavioral: sleep, somnolence (general depressed activity)

LD_{so} (Oral-Mouse) 1200 mg/kg

Morphological Transformation (Mouse-Fibroblast) 125 mg/L

Morphological Transformation (Mouse Lymphocyte) 1 µL/L

Mutation in Mammalian Somatic Cells (Mouse Lymphocyte) 1 gm/L

Sister Chromatid Exchange (Hamster Ovary) 160 mg/

Cytogenetic Analysis (Inhalation-Rat) 0.07 mg/L/122 days-intermittent

ALKENOIC ACID:

Standard Draize Test (Skin-Human) 15 mg/3 days-intermittent: Moderate

Standard Draize Test (Eye-Rabbit) 100 mg: Mild

Open Imitation Test (Skin-Rabbit) 500 mg: Mild

LD₅₀ (Oral-Rat) 25,000 mg/kg

LD₅₀ (Oral-Mouse) 28,000 mg/kg

Cytogenetic Analysis (Yeast-Saccharomyces cerevisiae) 100 mg/L

Cytogenetic Analysis (Hamster Fibroblast) 2500 µg/L

Unscheduled DNA Synthesis (Rectal-Mouse) 35 mg/kg

CARCINOGENIC POTENTIAL: Components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds, as follows:

n-BUTYL ALCOHOL: EPA-D (Not Classifiable a to Human Carcinogenicity)

ETHYLENE GLYCOL MONOBUTYL ETHER: ACGIH TLV-A3 (Confirmed Animal Carcinogen); EPA-CBD (Cannot Be Determined); EPA-C (Possible Human Carcinogen); IARC-3 (Not Classifiable as to Carcinogenicity to Humans); MAK-4 (Substances with Carcinogenic Potential for Which Genotoxicity Plays No or at Most, a Minor Role) CYCLIC SECONDARY AMINE: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); IARC-3 (Not Classifiable as to Carcinogenicity to Humans)

ALKENOIC ACID: MAK-3 (Substances Which Cause Concern that They Could be Carcinogenic for Man but Cannot Be Assessed Conclusively Because of Lack of Data. The classification in Category 3 is provisional.

The remaining components of this product are not found on the following lists: U.S. EPA, U.S. NTP, U.S. OSHA, U.S. NIOSH, GERMAN MAK, IARC, or ACGIH and therefore are neither considered to be nor suspected to be cancer-causing agents by these agencies.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on animal or human reproductive systems.

Mutagenicity: The components of this product are not reported to cause mutagenic effects in humans. There is insufficient information available to conclude that the Primary Alkyl Alcohol component is mutagenic. A positive result was obtained in a limited oral study in mice, however other oral and inhalation studies in live rats and mice have given negative results. Mostly negative results have been obtained in cultured mammalian cells, bacteria and fruit flies (Drosophila).

Embryotoxicity: The components of this product are not reported to cause embryotoxic effects in humans. The Primary Alkyl Alcohol component has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity. The n-Butyl Alcohol component has caused embryotoxic and teratogenic effects in animal tests, but only with maternal toxicity.

Teratogenicity: The components of this product are not reported to cause teratogenic effects in humans. The Ethylene Glycol Monobutyl Ether has caused teratogenic effects, but only with maternal toxicity.

Reproductive Toxicity: The components of this product are not reported to cause reproductive effects in humans.

ACGIH BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, ACGIH Biological Exposure Indices (BEIs) have been determined for some components of this product, as follows:

determined for some components		
CHEMICAL: DETERMINANT	SAMPLING TIME	BEI
Ethylene Glycol Monobutyl Ether • Butoxyacetic Acid in urine	• End of shift.	200 mg/g creatine
Primary Alkyl Alcohol Methanol in urine	• End of shift.	• 15 mg/L

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12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

MOBILITY: This product has not been tested for mobility in soil. The following information is available for some components.

n-BUTYL ALCOHOL: The Koc of n-Butyl Alcohol is estimated as 72, using a log Kow of 0.88 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that n-Butyl Alcohol is expected to have high mobility in soil.

ETHYLENE GLYCOL MONOBUTYL ETHER: The Koc of 2-Butoxyethanol is estimated as 67, using a log Kow of 0.83 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that 2-Butoxyethanol is expected to have high mobility in soil.

PRIMARY ALKYL ALCOHOL: Using a structure estimation method based on molecular connectivity indices, the Koc for this material can be estimated to be 1. According to a classification scheme, this estimated Koc value suggests that this material is expected to have very high mobility in soil.

PERSISTENCE AND BIODEGRADABILITY: This product has not been tested for persistence or biodegradability. The following information is available for some components.

Alcohol will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 46 hours. If released to soil, n-Butyl Alcohol is expected to have high mobility based upon an estimated Koc of 72. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 8.8X10-6 atm-cu m/mole. n-Butyl Alcohol may volatilize from dry soil surfaces based upon its vapor pressure. The blodegradation half-life of n-Butyl Alcohol in a sub-surface soil was approximately 7 days. If released into water, n-Butyl Alcohol is not expected to adsorb to suspended solids and sediment in water based upon the estimated Koc. Volatilization from water surfaces is expected to be an important environmental fate process based upon this compound's Henry's Law constant. Estimated volatilization half-lives for a model river and model lake are 2 and 29 days, respectively. In a river die-away test, n-Butyl Alcohol achieved 33% of its theoretical BOD in 5 days, suggesting biodegradation will be an important fate process in water. Hydrotysis is not expected to be an important environmental fate process since this compound lacks functional groups that hydrolyze under environmental conditions.

ETHYLENE GLYCOL MONOBUTYL ETHER: If released to air, a vapor pressure of 0.88 mm Hg at 25°C indicates 2-Butoxyethanol will exist solely as a vapor in the ambient atmosphere. Vapor-phase 2-Butoxyethanol will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 16 hours. If released to soil, 2-Butoxyethanol is expected to have high mobility based upon an estimated Koc of 67. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 1.60X10-6 atm-cu m/mole. If released into water, 2-Butoxyethanol is not expected to adopt to suspended solids and sediment based upon the estimated Koc, 2-Butoxyethanol reached 91% of its theoretical BOD in 14 days using an activated sludge inoculum. Therefore this compound has the potential to biodegrade rapidly in water. Based upon this compound's estimated Henry's Law constant it is concluded that the volatilization of 2-Butoxyethanol from water surfaces may be an important fate process. The estimated volatilization half-lives for a model river and model lake are 25 and 185 days, respectively. Hydrolysis is not expected to be an important environmental fate process since this compound lacks functional groups that hydrolyze under environmental conditions.

PRIMARY ALKYL ALCOHOL: If released to the atmosphere, a vapor pressure of 127 mm Hg at 25°C indicates that this material will exist solely in the vapor phase. Vapor phase this RIMARY ALKYL ALCOHOL: If released to the atmosphere, a vapor pressure of 127 mm Hg at 25°C indicates that this material will exist solely in the vapor phase. Vapor phase this material is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 17 days. If released to soil, this compound is expected to have very high mobility based upon an estimated Koc of 1. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 4.55X10-6 atm-cu m/mole. This compound may also volatilize from dry soils based upon it vapor pressure. Biodegradation in soils is expected to occur rapidly based on half-lives in a sandy sit loam from Texas and a sandy loam from Mississippi of 1 and 3.2 days, respectively. If released into water, this compound is not expected to adsorb to suspended solids and sediment based upon the estimated Koc. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. Estimated volatilization half-lives for a model river and model lake are 3 and 35 days, respectively. Biodegradation is expected to occur in natural waters since this material is degraded quickly in soils and was biodegraded rapidly in various aqueous screening tests using sewage seed or activated sludge. BCF values of less than 10. measured in fish suggests bioconcentration in aquatic organisms is low. Hydrolvsis photolvsis in sunlit surface waters are not expected since this compound lacks functional 10, measured in fish suggests bioconcentration in aquatic organisms is low. Hydrolysis photolysis in sunlit surface waters are not expected since this compound lacks functional groups that are susceptible to hydrolysis or photolysis under environmental conditions.

BIO-ACCUMULATION POTENTIAL: This product has not been tested for bio-accumulation potential. The following information is available for some components.

n-BUTYL ALCOHOL: An estimated BCF of 3 was calculated for n-Butyl Alcohol, using a log Kow of 0.88 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bloconcentration in aquatic organisms is low. Octanol/Water Partition Coefficient: Log Kow = 0.88

ETHYLENE GLYCOL MONOBUTYL ETHER: An estimated BCF of 3 was calculated for 2-Butoxyethanol, using an estimated log Kow of 0.83 and a regression-derived equation.

According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

PRIMARY ALKYL ALCOHOL: Fish (golden ide) exposed to 0.05 mg/L of this material for three days in an aquatic tank had measured BCF values of less than 10. Based on a classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low.

ECOTOXICITY: This product has not been tested for toxicity to aquatic or terrestrial organisms; however, all release to terrestrial, atmospheric and aquatic environments should be avoided. Release of this product to an aquatic environment may be harmful to aquatic plant and animal life in contaminated bodies of water, especially in large quantities. The following aquatic toxicity data are available for some components. Only select data are presented in this SDS. Contact Kinetic Fuel Technologies for information on other data available.

n-BUTYL ALCOHOL:

LC_{so},S (fathead minnow) 96 hours = 1,910 mg/L LCso (Albumus albumus) 96 hours = 2,300 mg/L (Nitocra spinipas) 96 hours = 2,100 mg/L

ETHYLENE GLYCOL MONOBUTYL ETHER:

LC₅₀ (Menidia beryllina Inland silverside) 96 hours = 1250 mg/L; static

LC₅₀ (Crangon crangon brown shrimp) 96 hours = 775 mg/L (range: 550-950 mg/L) LC₅₀ (Lepomis macrochirus Bluegill) 96 hours = 1,490 mg/L; static

LC₅₀ (Pimephales promelas Fathead minnow) 96 hours = 2137 mg/L LC_{so} (Oncorhynchus mykiss Rainbow trout) 96 hours = > 1000 mg/L

LC₅₀ (Crassostrea virginica Oyster) 96 hours = 89 mg/L

LC₅₀ (Cyprinodon variegatus Sheepshead minnow) 96 hours = 116 mg/L

LC₅₀ (Artemia salina Brine shrimp) 24 hours = 1000 mg/L PRIMARY ALKYL ALCOHOL:

EC₅₀ (Daphnia magna Water flea; immobilization) 24 hours = > 10,000 mg/L

LC₅₀ (Artemia salina Brine shrimp, 24 hr old) 24 hours = 1578,84 mg/L LC₅₀ (*Pimephales promelas* fathead minnows, 30 day old 0.12 g) 96 hours = 28,100

LC₅₀ (Oncorhynchus mykiss Rainbow trout, 0.8 g) 96 hours = 19,000 mg/L

PRIMARY ALKYL ALCOHOL (continued):

LC₅₀ (Lepomis macrochirus Bluegill) 96 hours = 15,400 mg/L; flow-through

LC₅₀ (Nitocra spinipes Harpacticoid copepod, adult) 96 hours = 12,000 mg/L

LC₅₀ (Albumus albumus Bleak, 8 cm) 96 hours = 28,000 mg/L LC₅₀ (Gammarus fasciatus) 96 hours = > 100 mg/L

LC_{so} (Helisoma trivolvis aquatic mollusk) 96 hours = > 100 mg/L

LC₅₀ (Dugesia tigrina aquatic worm) 96 hours => 100 mg/L

LC50 (Ceriodaphnia dubia) 48 hours = 11 mg/L

LC₅₀ (Lumbriculus variegatus aquatic worm) 96 hours = > 100 mg/L

LCso (Crangon crangon Brown shrimp, adult) 96 hours = 1340 mg/L

LC₅₀ (Mytilus edulis Mussel, 5-7 cm) 96 hours = 15,900 mg/L

LC₅₀ (Agonus cataphractus Armed bullhead, adult) 96 hours = 7900-26,070 mg/L

CYCLIC SECONDARY AMINE:

LC_{so} (bluegill) 96 hours = 350 mg/L LC₅₀ (daphnia) 24 hours = 100 mg/L

ECso (Daphnia magna) 24 hours = 119 mg/L (immobilization)

ALKENOIC ACID:

LC₅₀ (Pimephales promelas Fathead minnow, juvenile 4-8 wk, length 1.1-3.1 cm) 96 hours = 205,000 µg/L

OTHER ADVERSE EFFECTS: No component of this product is known to have ozone depletion potential.

ENVIRONMENTAL EXPOSURE CONTROLS: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

ENVIRONMENTAL EXPOSURE LIMITS (New Zealand): Currently, there are no EELS established for emponents of this product.

SULTS OF PBT AND vPvB ASSESSMENT: No data available. PBT and vPvB assessments are part of the chemical safety report required for some substances in European Union Regulation (EC) 1907/2006, Article 14.

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13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT/DISPOSAL METHODS: It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Shipment of wastes must be done with appropriately permitted and registered transporters.

DISPOSAL CONTAINERS: Waste materials must be placed in and shipped in appropriate 5-gallon or 55-gallon poly or metal waste pails or drums. Permeable cardboard containers are not appropriate and should not be used. Ensure that any required marking or labeling of the containers be done to all applicable regulations.

PRECAUTIONS TO BE FOLLOWED DURING WASTE HANDLING: Wear proper protective equipment when handling waste materials.

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada. This product, if unaltered by handling, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

U.S. EPA WASTE NUMBER: Wastes of this product should be tested to determine if they meet the criteria for D001 Waste Characteristic-Ignitability.

EU EWC WASTE CODE: Waste organic solvents, refrigerants and foam/aerosol propellants, other solvents and solvent mixtures: 14 06 03*

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as Dangerous Goods,

UN 1993

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3 (Flammable)

per regulations of the DOT.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

Dot Label(s) Required:

Emergency Response Guidebook Number (2012):

Marine Pollutant: This compound is not specifically listed as a Marine Pollutant and does not meet the criteria of a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B). CERCLA RQ: 5000 lb (2270 kg)

Class 3 (Flammable)

RANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods, per regulations of Transport Canada. The use of the above U.S. DOT information from the U.S. 49 CFR regulations is allowed for shipments that originate in the U.S. For shipments via ground vehicle or rail that originate in Canada, the following information is applicable.

UN Identification Number:

Proper Shipping Name:

Hazard Class Number and Description:

Packing Group:

Hazard Label(s) Required:

Special Provisions:

Explosive Limit and Limited Quantity Index:

ERAP Index:

Passenger Carrying Ship Index:

Passenger Carrying Road or Rail Vehicle Index:

UN 1993

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

3 (Flammable)

PĠ III

Class 3 (Flammable)

5 None

16

None 60

Marine Pollutant: This product does not meet the criteria of a Marine Pollutant under Transport Canada regulations, as per TDG 2.7. INTERNATIONAL AIR TRANSPORT ASSOCIATION/ICAO (IATA/ICAO): This material is classified as dangerous goods, per the International Air Transport Association.

UN Identification Number:

Proper Shipping Name/Description:

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

3 (Flammable) Class 3 (Flammable)

Packing Group: **Excepted Quantities:**

Hazard Class or Division:

Hazard Label(s) Required:

Ш E1

Passenger and Cargo Aircraft Packing Instruction:

355 Passenger and Cargo Aircraft Packing Maximum Net Quantity per Pkg.: 60 L Passenger and Cargo Aircraft Packing Limited Quantity Packing Instruction: Y344

Passenger and Cargo Aircraft Packing Limited Quantity Maximum Net Quantity per Pkg.: 10 L

Targo Aircraft Only Packing Instruction:

366

largo Aircraft Only Maximum Net Quantity per Pkg.: 60 L special Provisions:

ERG Code:

A3 3L

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14. TRANSPORTATION INFORMATION (Continued0

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is classified as dangerous

goods, per the International Maritime Organization.

UN No.:

Proper Shipping Name:

Hazard Class Number:

Packing Group:

Special Provisions:

Limited Quantities: **Excepted Quantities:**

Packing: IBCs: Tanks:

EmS: Stowage Category:

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

111

223, 274, 955

5 L

E1

Instructions: P001, Provisions; LP01 Instructions: IBC03, Provisions: None Instructions: T4, Provisions: TP1, TP29

F-E. S-E

Category A. Marine Pollutant: This product does not meet the criteria of a Marine Pollutant under UN criteria.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

(ADR): This product is classified by the Economic Commission for Europe to be dangerous goods.

UN NO.:

Name and Description:

Class:

Classification Code: Packing Group: Labels:

Special Provisions:

Limited Quantities:

Excepted Quantities:

Packing Instructions:

Special Packing Provisions: Mixed Packing Provisions:

Portable Tanks and Bulk Containers:

Hazard Identification No.:

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol)

F1

Ш 3

274, 601, 640E

5 L

E1 Instructions: P001, IBC03, LP01, R001

MP19

Instructions: T4, Provisions: TP1, TP29

30

ISTRALIAN FEDERAL OFFICE OF ROAD SAFETY CODE FOR THE TRANSPORTATION OF DANGEROUS GOODS BY ROAD OR RAIL: This product is classified as dangerous goods, per regulations of the Australian Federal Office of

Road Safety.

UN NO .:

Name and Description:

Flammable liquid, n.o.s. (n-Butyl alcohol, Methanol) 3

Class or Division: Packing Group; Special Provisions: Limited Quantities:

Ш 223, 274 5 L F2

Excepted Quantities: Packing Instructions:

Instructions: P001, IBC03, LP01

Special Packing Provisions:

None

Portable Tanks and Bulk Containers:

Instructions: T4, Special Provisions: TP1, TP29

HazChem Code:

3Y

TRANSPORT IN BULK ACCORDING TO THE IBC CODE: See the information under the individual jurisdiction listings for IBC information.

ENVIRONMENTAL HAZARDS: This compound does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and ADN); and is not specifically listed in Annex III under MARPOL 73/78.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA Reporting Requirements: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows.

CHEMICAL NAME	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
n-Butyl Alcohol	No	No	Yes
Ethylene Glycol Monobutyl Ether	No	No	Yes/N230
Methyl Alcohol	No	No	Yes

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15. REGULATORY INFORMATION (Continued)

UNITED STATES REGULATIONS (continued):

U.S. SARA Threshold Planning Quantity (TPQ): There are no specific Threshold Planning Quantities for any component of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000

U.S. SARA Hazard Categories (Section 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: Yes; REACTIVE: No; SUDDEN RELEASE: No

U.S. CERCLA Reportable Quantities (RQ): n-Butyl Alcohol = 5000 lb (2270 kg); Primary Alkyl Alcohol = 5000 lb (2270 kg); the Ethylene Glycol Monobutyl Ether component has not been assigned a specific CERCLA RQ, but is a CERCLA Hazardous Substance. U.S. TSCA Inventory Status: The components of this product are on the TSCA Inventory.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): No component is on the California Proposition 65 lists.

CANADIAN REGULATIONS:

Canadian DSL/NDSL Inventory Status: The components of this product are on the DSL inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists: The components of this product are not on the CEPA Priorities Substances Lists.

Canadian WHMIS Classification and Symbols: B3: Flammable and Combustible Material: Combustible Liquid. D1A: Poisonous and Infectious Material: Immediate and Serious Effects: Toxic. D2A: Poisonous and Infectious Material: Other Effects: Very toxic. D2B: Poisonous and Infectious Material: Other Effects: Toxic, Sensitization Based on Animal Information.





ADDITIONAL EUROPEAN REGULATIONS:

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance: Currently, there is no specific legislation pertaining to this product.

Chemical Safety Assessment: No data available. The chemical safety assessment is required for some substances according to European Union Regulation (EC) 1907/2006, Article 14.

ADDITIONAL AUSTRALIAN REGULATIONS:

Australian Inventory of Chemical Substances (AICS) Status: The components of this product are listed on the AICS.

Hazardous Substances Information System (HSIS): All components are listed in the HSIS, except the Alkenoic Acid component.

ADDITIONAL JAPANESE REGULATIONS:

lapanese ENCS: Components are on Information on Ingredients). the ENCS Inventory, as indicated in composition tables in Section 3 (Composition and

Japanese Ministry Of Economy, Trade, and Industry (METI) Status: The Cyclic Secondary Amine component is listed as Class I Specified Chemical Substance.

Poisonous and Deleterious Substances Control Law: The Primary Alkyl Alcohol component is listed as a Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

ADDITIONAL SINGAPORE REGULATIONS:

List of Controlled Hazardous Substances: Components are not listed on the Singapore List of Controlled Substances.

ADDITIONAL KOREAN REGULATIONS:

Korean Existing Chemical Substances Inventory Status: Components are listed on the Korean Existing Chemicals List, as indicated in composition tables in Section 3 (Composition and Information on Ingredients).

ADDITIONAL TAIWANESE REGULATIONS:

Taiwan Existing Chemical Substances Inventory Status: Components are listed on the Taiwan Existing Chemicals List.

ADDITIONAL CHINESE REGULATIONS:

Chinese Inventory of Existing Chemical Substances Status: Components are listed on the Chinese Inventory of Existing Chemical Substances (IECSC).

ADDITIONAL NEW ZEALAND REGULATIONS:

New Zealand Inventory of Chemicals (NZIoC): The components of this product are on the NZIoC.

ADDITIONAL MEXICAN REGULATIONS:

Mexican Workplace Regulations (NOM-018-STPS-2000): This product is classified as hazardous.

16. OTHER INFORMATION

U.S. ANSI LABELING (Based on 129.1, Provided to Summarize Occupational Exposure Hazards): WARNING! COMBUSTIBLE LIQUID AND VAPOR. CAN CAUSE ADVERSE CENTRAL NERVOUS SYSTEM EFFECTS BY INGESTION, INHALATION AND SKIN CONTACT. INGESTION AND INHALATION MAY BE FATAL. SKIN CONTACT MAY BE HARMFUL OR CAUSE IRRITATION. EYE CONTACT CAUSE SEVERE IRRITATION. INGESTION MAY CAUSE BLINDNESS OR ADVERSE BLOOD EFFECTS. ASPIRATION AFTER INGESTION MAY CAUSE PULMONARY EDEMA OR CHEMICAL PNEUMONITIS. Avoid breathing vapor. Avoid contact with skin, eyes, and clothing. Wash is noroughly after handling. Wear gloves, goggles, and appropriate body protection during handling. Keep away from heat, parks and flame. Use only with adequate ventilation. Keep container closed.

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16. OTHER INFORMATION (Continued)

W.S. ANSI LABELING (continued): FIRST-AID: In case of contact, immediately flush skin or eyes for at least 20 minutes with large amounts of water. If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, DO NOT induce vomiting-seek immediate medical attention. IN CASE OF FIRE: Use water fog, dry chemical, CO₂, or "alcohol" foam. Do not use halons. Liquid may float and may re-ignite on the surface of water. IN CASE OF SPILL: Eliminate all sources of ignition. Use non-sparking tools. Absorb spill with inert material and place in suitable container. Place residual in appropriate container and seal. Dispose of according to applicable regulations. Consult Safety Data Sheet for additional information.

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION: Classified in accordance with the GHS Standard.

Classification: Flammable Liquid Cat. 3, Acute Oral Toxicity Cat. 4, Acute Dermal Toxicity Cat. 4, Acute Inhalation Toxicity Cat. 4, Skin Irritation Cat. 2, Eye Irritation Cat. 2A, STOT (Inhalation-Irritation) SE Cat. 3, STOT (Inhalation-Narcotic Effect) SE Cat. 3, STOT (Ingestion-Eye) SE Cat. 1 Signal Word: Danger

Hazard Statements: H226: Flammable liquid and vapor. H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. H370: Causes damage to organs (eyes) if ingested. Precautionary Statements:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe gas/mist/vapors/spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P370 + P378: In case of fire: Use materials appropriate for surrounding fire for extinction. Do not use halons. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P301 + P312: If swallowed, Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P332 + P313: If skin irritation occurs, get medical attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P304 + P340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P310: Immediately call a POISON CENTER or doctor. P321: Specific treatment (remove from exposure and treat symptoms).

Storage: P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations

Hazard Symbols/Pictograms: GHS02, GHS05, GHS07, GHS08

EU 67/548/EEC LABELING AND CLASSIFICATION: This material does not have a specific classification of hazardous, as defined by the European Union Council Directive 67/548/EEC or subsequent Directives. The following is a self-classification based on anticipated hazards.

Risk Phrases: R10: Flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. R41: Risk of serious damage to eyes. R37/38: Irritating to respiratory system and skin. R67: Vapours may cause drowsiness and dizziness.

Safety Phrases: S1/2: Keep locked up and out of the reach of children. S8: Keep container tightly dry. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe fumes/vapour/spray. S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Hazard Symbols: F, Xn

KOREAN ISHA (Notice 2009-68) LABELING AND CLASSIFICATION: Classified in accordance with ISHA Notice 2009-68. Under ISHA, no differences in classification are applicable. Refer to information given under the Global Harmonization Standard Classification.

NEW ZEALAND HAZARDOUS SUBSTANCES and NEW ORGANISMS ACT (HNSO) CHEMICAL CLASSIFICATION:

The product is classified as follows under the regulation:

Classification:

3.1C: Flammable Liquids: medium hazard.

6.1D (Oral, Dermal, Inhalation): Acutely toxic.

6.3A: Irritating to the skin.

6.8B: Suspected human reproductive or developmental toxicants.

6.9A (Inhalation): Toxic to human target organs or systems.

6.9B (Oral): Harmful to human target organs or systems.

8.3A: Corrosive to ocular tissue.

9.3C: Harmful to terrestrial vertebrates.

COMPONENT CLASSIFICATION:

Labeling and Classification Full Text under GHS:

n-Butyl Alcohol: This is a published-classification.

Classification: Flammable Liquid Category 3, Acute Oral Toxicity Category 4, Eye Damage Category 1, Skin Irritation Category. 2, Specific Target Organ Toxicity (Inhalation-Irritation) Single Exposure Category 3, Specific Target Organ Toxicity (Inhalation-Narcotic Effect) Single Exposure Category 3

Hazard Statements: H226: Flammable liquid and vapour. H302: Harmful if swallowed. H318: Causes serious eye damage. H315: Causes skin irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

Ethylene Glycol Monobutyl Ether: This is a published-classification.

Classification: Acute Oral Toxicity Category 4, Acute Dermal Toxicity Category 2, Acute Inhalation Category 4, Eye Irritation Category 2, Skin Irritation

Hazard Statements: H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled, H319: Causes serious eye irritation. H315: Causes skin irritation.

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16. OTHER INFORMATION (Continued)

COMPONENT CLASSIFICATION (continued):

Labeling and Classification Full Text under GHS (continued):

Primary Alkyl Alcohol: This is a published-classification.

Classification: Flammable Liquid Category 2, Acute Oral Toxicity Category 3, Acute Dermal Toxicity Category 3, Acute Inhalation Toxicity Category 3, STOT (Ingestion-Eye) SE Category 1

Hazard Statements: H225: Highly flammable liquid and vapour. H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled. H370: Causes damage to organs.

Cyclic Secondary Amine: This is a published classification.

Classification: Flammable Liquid Category 3, Acute Oral Toxicity Category 4, Acute Dermal Toxicity Category 4, Acute Inhalation Toxicity Category 4, Skin Corrosion Category 1B

Hazard Statements: H226: Flammable liquid and vapour. H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled. H314: Causes severe skin burns and eye damage.

Alkenoic Acid: This is a self-classification.

Classification: Skin Irritation Category. 2

Hazard Statements: H315: Causes skin irritation,

Labeling and Classification Full Text under EU 67/548/EEC:

n-Butyl Alcohol: This is a published-classification.

Classification: Flammable, Harmful, Irritant

Risk Phrases: R10: Flammable. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Limited evidence of a carcinogenic effect. R67: Vapours may cause drowsiness and dizziness.

Ethylene Glycol Monobutyl Ether: This is a published-classification.

Classification: Harmful, Irritant

Risk Phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed, R36/38: Irritating to eyes and skin.

Primary Alkyl Alcohol: This is a published-classification.

Classification: Flammable, Toxic

Risk Phrases: R11: Highly Flammable. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed,

Cyclic Secondary Amine: This is a published-classification.

Classification: Flammable, Harmful, Corrosive

Risk Phrases: R10: Flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R34: Causes burns.

Alkenoic Acid: This is a self-classification.

Classification: Irritant Risk Phrases: R38:

New Zealand HSNO COP 8-1 09-06: The following are classifications under HSNO for components in pure form. These classifications do not apply to the product. Refer to Section 2 for product classification,

n-Butyl Alcohol:

3.1C: Flammable Liquids: medium hazard

6.1D (Oral): Acutely toxic

6.1E (Dermal, Inhalation): Acutely toxic.

6.3A: Irritating to the skin.

8.3A: Corrosive to ocular tissue,

9.3C: Harmful to terrestrial vertebrates

Ethylene Glycol Monobutyl Ether: 3.1D: Flammable Liquids: low hazard,

6.1D (Oral, Inhalation): Acutely toxic.

6.1D (Dermal): Acutely toxic,

6.3B: Mildly irritating to the skin.

6.4A: Irritating to the eye.

9.3C: Harmful to terrestrial vertebrates.

Primary Alkyl Alcohol:

3.1B: Flammable Liquids: High hazard.

6.1C (Oral, Dermal, Inhalation): Acutely toxic.

6.4C: Irritating to the eye.

6.8B: Suspected human reproductive or developmental toxicants.

6.9A (Inhalation): Toxic to human target drgans or systems.

9.3C: Harmful to terrestrial vertebrates.

Cyclic Secondary Amine:

3.1C: Flammable Liquids: medium hazard.

6.1C (Oral, Dermal, Inhalation): Acutely toxic.

6.9A (Inhalation): Toxic to human target organs or systems.

6.9B (Oral): Harmful to human target organs or systems.

8.1A: Corrosive to metals.

8.2A: Corrosive to dermal tissue.

8.3A: Corrosive to ocular tissue.

9.1C (Fish, Crustacean, Algal): Harmful in the aquatic environment,

9.2C; Harmful in the soil environment.

9.3B: Ecotoxic to terrestrial vertebrates.

Alkenoic Acid:

6.3A: Irritating to the skin,

6.4A: Irritating to the eye.



16. OTHER INFORMATION (Continued)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Kinetic Fuel Technology Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The Information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be changed from time to time. Be sure to consult the latest edition.

REVISIONS DETAILS: May 2014: Up-date of entire SDS for compliance with additional country regulations.

REFERENCES AND DATA SOURCES: Contact the supplier for information.

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product. PREPARED BY:

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SD\$. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each

EXPOSURE LIMITS IN AIR:

CEILING LEVEL: The concentration that shall not be exceeded during any part of the working exposure.

DFG MAK Germ Cell Mutagen Categories: 1: Germ cell mutagens that have been shown to increase the mutant frequency in the progeny of exposed humans. 2: Germ cell mutagens that have been shown to increase the mutant frequency in the progeny of exposed mammals. 3A: Substances that have been shown to induce genetic damage in germ cells of human of animals, or which produce mutagenic effects in somatic cells of mammals in vivo and have been shown to reach the germ cells in an active form. 3B: Substances that are suspected of being germ cell mutagers because of their genotoxic effects in mammalian somatic cell in vivo; in exceptional cases, substances for which there are no in vivo data, but that are clearly mutagenic in vitro and structurally related to known in vivo mutagens. 4: Not applicable (Category 4 carcinogenic substances are those with non-genotoxic mechanisms of action. By definition, germ cell mutagens are genotoxic. Therefore, a Category 4 for germ cell mutagens cannot apply. At some time in the future, it is conceivable that a Category 4 could be established for genotoxic substances with primary targets other than DNA [e.g. purely aneugenic substances] if research results make this seem sensible. 5: Germ cell mutagens, the potency of which is considered to be so low that, provided the MAK value is observed, their contribution to genetic risk for humans is expected not to be significant.

DFG MAK Pregnancy Risk Group Classification: Group A: A risk of damage to the developing embryo or fetus has been unequivocally demonstrated. Exposure of pregnant women can lead to damage of the developing organism, even when MAK and BAT (Biological Tolerance Value for Working Materials) values are observed. Group 8: Currently available information indicates a risk of damage to the developing embryo or fetus must be considered to be probable. Damage to the developing organism cannot be uded when pregnant women are exposed, even when MAK and BAT values are erved. Group C: There is no reason to fear a risk of damage to the developing embryo setus when MAK and BAT values are observed. Group D: Classification in one of the groups A-C is not yet possible because, although the data available may indicate a trend,

they are not sufficient for final evaluation. IDLH: Immediately Dangerous to Life and Health. This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or

permanent injury.

LOQ: Limit of Quantitation.

MAK: Federal Republic of Germany Maximum Concentration Values in the workplace. NE: Not Established. When no exposure guidelines are established, an entry of NE is made for reference.

NIC: Notice of Intended Change.

NIOSH CEILING: The exposure that shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, the ceiling shall be assumed as a 15-minute TWA exposure (unless otherwise specified) that shall not be exceeded at any time during a

NIOSH RELs: NIOSH's Recommended Exposure Limits.

PEL: OSHA's Permissible Exposure Limits. This exposure value means exactly the same as a TLV; except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL" is placed next to the PEL that was vacated by

SKIN: Used when a there is a danger of cutaneous absorption.

STEL: Short Term Exposure Limit, usually a 15-minute time-weighted average (TWA) exposure that should not be exceeded at any time during a workday, even if the 8-hr TWA is within the TLV-TWA, PEL-TWA or REL-TWA.

TLV: Threshold Limit Value. An airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour.

TWA: Time Weighted Average exposure concentration for a conventional 8-hr (TLV, PEL) or up to a 10-hr (REL) workday and a 40-hr workweek.

WEEL: Workplace Environmental Exposure Limits from the AHA.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD

RATINGS: This rating system was developed by the National Paint and Coating Association and has been adopted by industry to identify the degree of chemical hazards. HEALTH HAZARD: 0 Minimal Hazard: No significant health risk, irritation of skin or eyes not anticipated. Skin Imitation: Essentially non-imitating, Mechanical irritation may occur. Pil or Draize = 0. Eye Imitation: Essentially non-imitating, minimal effects clearing in < 24

15.5. Mechanical irritation may occur. Draize = 0. Oral Toxicity LDs Rat. > 5000 mg/kg. nal Toxicity LDso Rat or Rabbit: > 2000 mg/kg. Inhalation Toxicity 4-hrs LCso Rat: > 20

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

HEALTH HAZARD (continued): 1 Slight Hazard: Minor reversible injury may occur; may irritate the stomach if swallowed; may defat the skin and exacerbate existing dermatitis. Skin Inflation: Slightly or mildly irritating. PII or Draze > 0 < 5. Eye Imitation: Slightly to mildly irritating. PII or Draze > 0 < 25. Cyc Imitation: Slightly to mildly irritating, but reversible within 7 days. Draze > 0 ≤ 25. Oral Toxicity LD₅₀ Rat. > 500— 5000 mg/kg. Dermal Toxicity LDso Rat or Rabbit: > 1000-2000 mg/kg. Inhalation Toxicity LCso 4-hrs Rat: > 2-20 mg/L. 2 Moderate Hazard: Temporary or transitory injury may occur; Total exposure may affect the CNS. Skin Irritation: Moderately Irritating; primary irritant; sensitizer. PII or Draize ≥ 5, with no destruction of dermal tissue. Eye Irritation: Moderately to severely irritating; reversible corneal opacity; corneal involvement or irritation clearing in 8–21 days. Draize = 26–100, with reversible effects. Oral Toxicity LD₂₀ Rat; > 50-500 mg/kg. Dermal Toxicity LD₅₀ Rat or Rabbit > 200-1000 mg/kg. Inhalation Toxicity LC₅₀ 4-hrs Rat: > 0.5-2 mg/L. 3 Serious Hazard: Major Injury likely unless prompt action is taken and medical treatment is given; high level of toxicity; corrosive. Skin Imitation: Severely irritating and/or corrosive; may cause destruction of dermal tissue, skin burns, and dermal necrosis. Pil or Draize > 5-8, with destruction of tissue. Eye Irritation: Corrosive, irreversible destruction of ocular tissue; comeal involvement or irritation persisting for more than 21 days. Draize > 80 with effects irreversible in 21 days. Oral Toxicity LD_{50} Rat. > 1—50 mg/kg. Dermal Toxicity LD_{50} Rat or Rabbit. > 20—200 mg/kg. Inhalation Toxicity LC_{50} 4-hrs Rat. > 0.05—0.5 mg/L. 4 Severe Hazard: Life-threatening; major or permanent damage may result from single or repeated exposure; extremely toxic; irreversible injury may result from brief contact. Skin Irritation: Not appropriate. Do not rate as a 4, based on skin irritation alone. Eye Irritation: Not appropriate. Do not rate as a 4, based on eye irritation alone. Oral Toxicity LD_{so} Rat ≤ 1 mg/kg. Dermal Toxicity LD_{so} Rat or Rabbit; ≤ 20 mg/kg. Inhalation Toxicity LC50 4-hrs Rat; ≤ 0.05 mg/L.

Inhalation Toxicity LU₅₀ 4-hrs Rat: \$ 0.05 mg/L.

FLAMMABILITY HAZARD: 0 Minimal Hazard: Materials that will not burn in air when exposure to a temperature of 815.5°C (1500°F) for a period of 5 minutes. 1 Slight Hazard: Materials that must be pre-heated before ignition can occur. Material requires considerable pre-heating, under all ambient temperature conditions before ignition and combustion can occur. This usually includes the following: Materials that will burn in air when exposed to a temperature of 815.5°C (1500°F) for a period of 5 minutes or less; Liquids, solids and some solids before a first product of the period of 5 minutes or less; Claudids, solids and some solid before a first product of the period of 5 minutes or less; Claudids, solids and solid before a first product of the period of 5 minutes or less; Claudids, solids and solid before a first product of the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solids and solid before the period of 5 minutes or less; Claudids, solid before the period of 5 minutes or less; Claudids, solid before the period of 5 minutes or less; Claudids, solid before the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less; Claudids, solid before the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes or less that the period of 5 minutes temperature of 615.5 C (1500 r) for a period of 5 implicies or less; Liquids, solids and semisolids having a flash point at or above 93.3°C (200°F) (i.e. OSHA Class IIIB); and Most ordinary combustible materials (e.g. wood, paper, etc.). 2 Moderate Hazard: Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would nbt, under normal conditions; form hazardous atmospheres in air, but under high ambient temperatures or moderate heating may release vapor in sufficient quantities to produce hazardous atmospheres with air. This usually includes the following: Liquids having a flash-point at or above 37.8°C (100°F); Solid materials in the form of course dusts that may bum rapidly but that generally do not Solid materials in the form of course dusts that may burn rapidly but that generally do not form explosive atmospheres; Solid materials in a fibrous or shredded form that may burn rapidly and create flash fire hazards (e.g. cotton, sisal) hemp); and Solids and semisolids (e.g. viscous and slow flowing as asphalt) that readily give off flammable vapors. 3 Serious Hazard: Eiquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures, or, unaffected by ambient temperature, are readily ignited under almost all conditions. Materials in this degree produce hazardous atmospheres with air under almost all conditions. almost all conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures, or, unaffected by ambient temperature, are readily ignited under almost all conditions. This usually includes the following: Liquids having a flash point below 22.8°C (73°F) and having a boiling point at or above 38°C (100°F) and those liquids having a flash point at or above 22.8°C (73°F) and below 37.8°C (100°F) (i.e. OSHA Class IB and IC); Materials that on account of their physical form or environmental conditions can form explosive mixtures with air and and readily dispersed in air (e.g., dusts contaions can form explosive mixtures with air and are readily dispersed in air (e.g., dusts of combustible solids, mists or droplets of flammable liquids); and Materials that burn extremely rapidly, usually by reason of self-contained loxygen (e.g. dry nitrocellulose and many organic peroxides). 4 Severe Hazard: Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air, and that will burn readily. This usually includes the following: Flammable gases; Flammable cryogenic materials; Any liquid or gaseous material that is liquid while under pressure and has a flash point below 22.8°C (73 F) and a boiling point below 37.8°C (100 F) (i.e. DSNA Class IA); and Materials that its readers are sufficient to the control of the cont (100°F) (i.e. OSHA Class IA); and Materials that ignite spontaneously when exposed to air at a temperature of 54.4°C (130°F) or below (pyrophodic).

PHYSICAL HAZARD: 0 Water Reactivity: Materials that do not react with water. Organic

Peroxides: Materials that are normally stable, even under fire conditions and will not react with water. Explosives: Substances that are Non-Explosive. Compressed Gases: No Rating. Pyrophorics: No Rating. Oxidizers: No 0 rating. Unstable Reactives: Substances that will not polymerize, decompose, condense, or self-react.). 1 Water Reactivity. Materials that change or decompose upon exposure to moisture. Organic Peroxides: Materials that are normally stable but no become unstable the but no conditions. Materials that are normally stable, but can become unstable at high temperatures and pressures. These materials may react with water, but will not release energy violently. Explosives: Division 1.5 & 1.6 explosives. Substances that are very insensitive explosives or that do not have a mass explosion hazard. Compressed Gases: Pressure below OSHA

definition, Pyrophorics: No Rating,



DEFINITION OF TERMS (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

YSICAL HAZARD (continued): 1 (continued); Oxidizers: Packaging Group III oxidizers; lids: any material that in either concentration tested, exhibits a mean burning time less in or equal to the mean burning time of a 3.7 potassium bromate/cellulose mixture and the criteria for Packing Group I and II are not met. Liquids any material that exhibits a mean pressure rise time less than or equal to the pressure rise time of a 1:1 nitric acid (65%)/cellulose mixture and the criteria for Packing Group I and II are not met. Unstable Reactives: Substances that may decompose condense, or self-react, but only under conditions of high temperature and/or pressure and have little or no potential to cause significant heat generation or explosion hazard. Substances that readily undergo hazardous polymerization in the absence of inhibitors. Substances that readily undergo hazardous polymerization in the absence of inhibitors. Substances that readily undergo hazardous polymerization in the absence of inhibitors. 2 Water Reactivity. Materials that may react violently with water. Organic Peroxides: Materials that, in themselves, are normally unstable and will readily undergo violent chemical change, but will not detonate. These materials may also react violently with water. Explosives: Division 1.4 explosives. Explosive substances where the explosive effects are largely confined to the package and Explosive substances where the explosive effects are largely commed to the package and no projection of fragments of appreciable size or range are expected. An external fire must not cause virtually instantaneous explosion of almost the entire contents of the package. Compressed Gases: Pressurized and meet OSHA definition but < 514.7 psi absolute at 21.1°C (70°F) [500 psig]. Pyrophorics: No Rating. Oxidizers: Packing Group II oxidizers. Solids: any material that, either in concentration tested, exhibits a mean burning time of a 2-2 notascium becomes the programment. less than or equal to the mean burning time of a 2:3 potassium bromate/cellulose mixture and the criteria for Packing Group I are not met. Liquids: any material that exhibits a mean pressure rise time less than or equal to the pressure rise of a 1:1 aqueous sodium chlorate solution (40%)/cellulose mixture and the criteria for Packing Group I are not met. Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure, but have a low potential (or low risk) for significant heat generation or explosion. Substances that readily form peroxides upon exposure to air or oxygen at room temperature. 3 Water Reactivity. Materials that may form explosive reactions with water. Organic Peroxides: Materials that are capable of detonation or explosive reaction, but require a strong initiating source or must be heated under confinement before initiation; or materials that react explosively with water. Explosives: Division 1.3 explosives. Explosive substances that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but do not have a mass explosion hazard. Compressed Gases: Pressure > 514.7 psi absolute at 21.1°C (70°F) [500 psig]. Pyrophorics: No Rating. Oxidizers: Packing Group I oxidizers. Solids: any material that, in either concentration tested, exhibits a mean burning time less than the mean burning time of a 3:2 potassium bromate/cellulose mixture. Liquids: any material that spontaneously ignites when mixed with cellulose in a 1:1 ratio, or which exhibits a mean pressure rise time less than the pressure rise time of a 1:1 perchtoric acid (50%)/cellulose mixture. Unstable Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure and have a moderate potential (or moderate risk) to se significant heat generation or explosion. 4 Water Reactivity: Materials that react losively with water without requiring heat or confinement. Organic Peroxides: Materials are readily capable of detonation or explosive decomposition at normal temperature and pressures. Explosives: Division 1.1 & 1.2 explosive decomposition at normal temperature and pressures. Explosives: Division 1.1 & 1.2 explosives. Explosive substances that have a mass explosion hazard or have a projection hazard. A mass explosion is one that affects almost the entire load instantaneously. Compressed Gases: No Rating. Pyrophorics: Add to the definition of Flammability 4. Oxidizers: No 4 rating. Unstable Reactives: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure and have a high potential (or high risk) to cause significant heat generation or

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

HEALTH HAZARD: 0 Materials that, under emergency conditions, would offer no hazard <u>HEALTH HAZARD</u>: 0 Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. Gases and vapors with an LC₅₀ for acute inhalation toxicity greater than 10,000 ppm. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than 200 mg/L. Materials with an LD₅₀ for acute dermal toxicity greater than 2000 mg/kg. Materials with an LD₅₀ for acute oral toxicity greater than 2000 mg/kg. Materials essentially non-irritating to the respiratory tract, eyes, and skin. 1 Materials that, under emergency conditions, can cause significant irritation. Gases and vapors with an LC₅₀ for acute inhalation toxicity greater than 5,000 ppm but less than or equal to 10,000 ppm. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than vapors with an LC₅₀ for acute inhalation toxicity greater than 5,000 ppm but less than or equal to 10,000 ppm. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than 10 mg/L but less than or equal to 200 mg/L. Materials with an LD₅₀ for acute dermal toxicity greater than 1000 mg/kg but less than or equal to 2000 mg/kg. Materials that slightly to moderately irritate the respiratory tract, eyes and skin. Materials with an LD₅₀ for acute oral toxicity greater than 500 mg/kg but less than or equal to 2000 mg/kg. 2 Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. Gases with an LC₅₀ for acute inhalation bysicity greater than 3,000 mg/kg. with an LC₅₀ for acute inhalation toxicity greater than 3,000 ppm but less than or equal to 5,000 ppm. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than one-fifth its LC₅₀ for acute inhalation toxicity, if its LC₅₀ is less than or equal to 5000 ppm and that does not meet the criteria for either degree of hazard 3 or degree of hazard 4. Dusts and mists with an LC₅₀ for acute inhalation toxicity greater than 2 mg/L but less than or equal to 10 mg/L. Materials with an LDso for acute dermal toxicity greater than less than or equal to 10 mg/L. Materials with an LD₅₀ for acute dermal toxicity greater than 200 mg/kg but less than or equal to 1000 mg/kg. Compressed liquefied gases with boiling points between -30°C (-22°F) and -55°C (-66.5°F) that cause severe tissue damage, depending on duration of exposure. Materials that are respiratory irritants. Materials that cause severe, but reversible irritation to the eyes or are lachrymators. Materials that are primary skin irritants or sensitizers. Materials whose LD₅₀ for acute oral toxicity is greater than 50 mg/kg but less than or equal to 500 mg/kg. 3 Materials that, under emergency conditions, can cause serious or permanent injury. Gases with an LC50 for acute inhalation toxicity greater than 1,000 ppm but less than or equal to 3,000 ppm. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater its LC50 for acute inhalation toxicity, if its LC₅₀ is less than or equal to 3000 pm and that does not meet the la for degree of hazard 4. Dusts and mists with an LC_{50} for acute inhalation toxicity er than 0.5 mg/L but less than or equal to 2 mg/L. Materials with an LD₅₀ for acute

__...al loxicity greater than 40 mg/kg but less than or equal to 200 mg/kg.

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS (continued);

HEALTH HAZARD (continued): 3 (continued): Materials that are corrosive to the respiratory tract. Materials that are corrosive to the eyes or cause irreversible corneal opacity. Materials corrosive to the skin. Cryogenic gases that cause frostbite and irreversible tissue damage. Compressed liquefied gases with boiling points below -55°C (-66.5°F) that cause frostbite and irreversible tissue damage. Materials with an LD₂₀ for acute oral toxicity greater than 5 mg/kg but less than or equal to 50 mg/kg. 4 Materials that, under emergency conditions, can be lethal. Gases with an LC₅₀ for acute inhalation toxicity less than or equal to 1,000 ppm. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than ten times its LC₅₀ for acute inhalation toxicity, if its LC₅₀ is less than or equal to 1000 ppm. Dusts and mists whose LC₅₀ for acute inhalation toxicity is less than or equal to 0.5 mg/L. Materials whose LD₅₀ for acute dermal toxicity is less than or equal to 40 mg/kg. Materials whose LD₅₀ for acute or all toxicity is less than or equal to 40 mg/kg. Materials whose LD₅₀ for acute or all toxicity is less than or equal to 5

FLAMMABILITY HAZARD: 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 816°C (1500°F) for a period of 5 minutes in according with Annex D of NFPA 704. 1 Materials that must be preheated before ignition can occur. Materials in this degree require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur: Materials that will burn in air when exposed to a temperature of 816°C (1500°F) for a period of 5 minutes in according with Annex D of NFPA 704. Liquids, solids, and semisolids having a flash point at or above 93.4°C (200°F) (i.e. Class IIIB liquids). Liquids with a flash point greater than 35°C (95°F) that do not sustain combustion when tested using the Method of Testing for Sustained Combustibility, per 49 CFR 173, Appendix H or the UN Recommendations on the Transport of Dangerous Goods, Model Regulations (current edition) and the related Manual of Tests and Criteria (current edition). Liquids with a flash point greater than 35°C (95°F) in a water-miscible solution or dispersion with a water non-combustible liquid/solid content of more than 85% by weight. Liquids that have no fire point when tested by ASTM D 92, Standard Test Method for Flash and Fire Points by Cleveland Open Cup, up to the boiling point of the liquid or up to a temperature at which the sample being tested shows an obvious physical change, Combustible pellets with a representative diameter of greater than 2 mm (10 mesh). Most ordinary combustible materials. Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 2 Materials that must be moderately heated or exposed to relatively high ambient temperatures before lignificon can occur. Materials in this degree would not under normal conditions form hazardous atmospheres with air, but under high amblent temperatures or under moderate heating could release vapor in sufficient high ambient temperatures or under moderate heating could release vapor in sufficient quantities to produce hazardous atmospheres with air, Liquids having a flash point at or above 37.8°C (100°F) and below 93.4°C (200°F) (i.e. Class II and Class IIIA liquids.) Solid materials in the form of powders or coarse dusts of representative diameter between 420 microns (40 mesh) and 2 mm (10 mesh) that burn rapidly but that generally do not form explosive mixtures with air. Solid materials in fibrous or shredded form that burn rapidly and explosive mixtures with air. Solid materials in fibrous or shredded form that burn rapidly and create flash fire hazards, such as cotton, sisal, and hemp. Solids and semisolids that readily give off flammable vapors. Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 3 Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions. Liquids having a flash point below 22.8°C (73°F) and having a boiling point at or above 37.8°C (100°F) and those liquids having a flash point at or above 22.8°C (73°F) and below 37.8°C (100°F) (i.e. Class IB and IC figuids). Materials that on account of (73°+) and below 37.8°C (100°+) (i.e. Class is and ic inquios), materials that on account or their physical form or environmental conditions can form explosive mixtures with air and are readily dispersed in air. Flammable or combustible dusts with representative diameter less than 420 microns (40 mesh). Materials that burn with extreme rapidity, usually by reason of self-contained oxygen (e.g. dry nitrocellulose and many organic peroxides). Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the classed cut offset point of the solvent 4 Materials that will rapidly or completely venorize the closed cup flash point of the solvent. 4 Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and will burn readily. Flammable gases. Flammable cryogenic materials. Any liquid or gaseous materials that is liquid while under pressure and has a flash point below 22.8°C (73°F) and a boiling point below 37.8°C (100°F) (i.e. Class IA liquids). Materials that ignite when exposed to air, Solids containing greater than 0.5% by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent.

INSTABILITY HAZARD: 0 Materials that in themselves are normally stable, even under fire conditions. Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) below 0.01 W/mL. Materials that do not exhibit an exotherm at temperatures less than or equal to 500°C (932°F) when tested by differential scanning calorimetry. 1 Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures. Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 0.01 W/mL and below 10 W/mL. 2 Materials that readily undergo violent chemical change at elevated temperatures and pressures. Materials that have an instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 10 W/mL and below 100W/mL. 3 Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction, but that require a strong initiating source or that must be heated under confinement before initiation. Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 00 W/mL and below 1000 W/mL. Materials that are sensitive to thermal or mechanical shock at elevated temperatures and pressures. 4 Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. Materials that are sensitive to localized thermal or mechanical shock at normal temperatures and pressures. Materials that have an estimated instantaneous power density (product of heat

of reaction and reaction rate) at 250°C (482°F) of 1000 W/mL or greater.



DEFINITION OF TERMS (Continued)

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire itection Association (NFPA). Flash Point: Minimum temperature at which a liquid gives sufficient vapor to form an ignitiable mixture with air near the surface of the liquid or hin the test vessel used. Autoignition Temperature: Minimum temperature of a solid, liquid, or gas required to initiate or cause self-sustained combustion in air with no other source of ignition. LEL: Lowest concentration of a flammable vapor or gas/air mixture that will ignite and burn with a flame. UEL: Highest concentration of a flammable vapor or gas/air mixture that will ignite and burn with a flame.

TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented, LD₅₀: Lethal Dose (solids & liquids) that kills 50% of the exposed animals, LC₅₀: Lethal Concentration (gases) that kills 50% of the exposed animals, LC₅₀: Lethal Concentration (gases) that kills 50% of the exposed animals, ppm; Concentration expressed in parts of material per million parts of air or water. mg/m²: Concentration expressed in weight of substance per volume of air. mg/kg; Quantity of material, by weight, administered to a test subject, based on their body weight in kg, TDLo: Lowest dose to cause a symptom. TCLo: Lowest concentration to cause a symptom, TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo: Lowest dose (or concentration) to cause lethal or toxic effects. Cancer Information: IARC: International Agency for Research on Cancer. NTP: National Toxicology Program. RTECS: Registry of Toxic Effects of Chemical Substances. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other Information: BEI: ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

REPRODUCTIVE TOXICITY INFORMATION: A <u>mutagen</u> is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An <u>embryo toxin</u> is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance that interferes in any way with the reproductive process.

ECOLOGICAL INFORMATION:

EC: Effect concentration in water. BCF: Bioconcentration Factor, which is used to determine if a substance will concentrate in life forms that consume contaminated plant or animal matter. TLm: Median threshold limit, log Kow or log Koc: Coefficient of Oil/Water Distribution is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

U.S.:

EPA: U.S. Environmental Protection Agency. ACGIH: American Conference of Governmental Industrial Hygienists, a professional association that establishes exposure limits, OSHA: U.S. Occupational Safety and Health Administration. NIOSH: National Institute of Occupational Safety and Health, which is the research arm of OSHA. DOT: U.S. Department of Transportation. TC: Transport Canada, SARA: Superfund Amendments and Reauthorization Act. TSCA: U.S. Toxic Substance Control Act. CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. Marine Pollutant status according to the DOT; CERCLA or Superfund; and various state regulations. This section also includes information on the precautionary warmings that appear on the material's package label.

CANADA:

WHMIS: Canadian Workplace Hazardous Materials Information System, TC: Transport Canada. DSL/NDSL: Canadian Domestic/Non-Domestic Substances List.

K100D & K100MD SDS

MATERIAL SAFETY DATA SHEET

SECTION I

PART NUMBER SR-216 PART A, ALMOND BATH/TUB REPAIR KIT

SUPPLIERS NAME:

ITW PERFORMANCE POLYMERS CONSUMER DIVISION

SYON CORPORATION

2107 WEST BLUE HERON BLVD. RIVIERA BEACH, FL 33404

EMERGENCY TELEPHONE NUMBER:

Chem Trec: 800-424-9300

REVISED:

June 2000

SECTION II

PRODUCT IDENTIFICATION

TRADE NAME:

SR-216 Part A, Almond Bath/Tub Repair Kit Bisphenol A/Epichlorohydrin Based Epoxy Resin

CHEMICAL NAME: CHEMICAL FAMILY:

Epoxy Resins

Acute Health

<u>Fire</u> <u>Reactivity</u>

HAZARD RATING:

Least - 0; Slight - 1; Moderate - 2; High - 3; Extreme - 4

For chronic and health effects refer to Section III.

CTION II-A

PRODUCT /INGREDIENT

<u>NO.</u>	COMPOSITION	CAS NUMBER	PERCENT
P	SR-216, Part A		100%
1	Bisphenol A/Epichlorohydrin Based Epoxy Resin	25068-38-6	>90

This product contains an Epoxy Resin produced by the condensation reaction of Epichlorohydrin and Bisphenol-A. These raw materials are consumed in the process. Residual levels of Epichlorohydrin are controlled to 1 PPM, max. in the product.

SECTION II-B

ACUTE TOXICITY DATA

<u>NO.</u>	Acute Oral LD50	ACUTE DERMAL LD50	Acute Inhalation LC50	
1	11.4 g/kg (rat)	>20 ml/Kg (rabbit)	No Deaths in Sat'd Air, 8	hr*
1	15 6 a/V a (mayas)		- · · · · · · · · · · · · · · · · · · ·	

^{1 15.6} g/Kg (mouse)

SECTION III

HEALTH INFORMATION

The health effects noted below are consistent with requirements under the OSHA Hazard Communications Standard (29 CFR 1910.1200).

ÈYE CONTACT: Based on product testing product is moderately irritating to the eyes. Contact with product at elevated temperatures can result in thermal burns.

^{*}This inhalation test may not be relevant due to low volatility of the resin.

SKIN CONTACT: Based on product testing product is moderately irritating to the skin. Based on product testing product may cause skin sensitization. Contact with product at elevated temperatures can result in thermal burns.

INHALATION: Because of its low volatility this product is not likely to be an inhalation hazard.

INGESTION: Based on product testing, product is considered to have a low order of acute oral toxicity.

SIGNS AND SYMPTOMS:

Irritation as noted above. Skin sensitization (Allergy) may be evidenced by rashes, especially hives.

AGGRAVATED MEDICAL CONDITIONS:

Preexisting skin and eye disorders may be aggravated by exposure to this product. Preexisting skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product. OTHER HEALTH EFFECTS:

See Section VI for supplemental health information.

SECTION IV

OCCUPATIONAL EXPOSURE LIMITS

No OSHA nor ACGIH limits have been established for this product.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention. If contact with hot product occurs immediately flush with cool water for 15 minutes. Get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse. If contact with hot product occurs immediately flush with cool water for 15 minutes. carefully remove clothing. If clothing is stuck to a burn area Do Not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

INGESTION: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.*

NOTE TO PHYSICIAN:

*In general, emesis induction is unnecessary in high viscosity, low volatility products, e.g., neat epoxy resins.

SECTION VI SUPPLEMENT HEALTH INFORMATION

CHRONIC STUDIES: Recent 2-Year Bioassays in mice exposed by the dermal route to Component 1, the Diglycidyl Ether of Bisphenol A (DGEBPA), or to other commercial resins which are composed predominantly of DGEBPA have yielded very limited evidence of weak carcinogenicity. DGEBPA is a component of this resin. The authors of this work concluded that the renal tumor evidence with Component 1 "was of no biological importance" and that the resin "is not a systemic carcinogen when applied to the dorsal skin of CF 1 mice. Based upon this and all other available information, the International Agency for Research on Cancer (IARC) concluded (1988) that DGEBPA was not classifiable as a carcinogen (IARC Group 3) based on the following: Human Evidence - inadequate; Animal Evidence - Inadequate.

UTAGENICITY: Both Component 1 and DGEBPA, a component of Component 1, have proved to be inactive

when tested by in vivo mutagenicity assays. They have both shown activity by in vitro microbial mutagenicity screening and have both produced chromosomal aberrations in cultured rat liver cells. The significance of this formation to man is unknown.

SECTION VII PHYSICAL DATA

BOILING POINT: >500?F MELTING POINT: Not Available EVAPORATION RATE: Not Applicable SPECIFIC GRAVITY: 1.17 (H₂0=1) VAPOR PRESSURE: 0.03 mm Hg

VAPOR DENSITY: Not Applicable

APPEARANCE AND ODOR: Almond Color, Odorless

SECTION VIII FIRE & EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: 480?F PMCC

EXTINGUISHING MEDIA: Water Fog, Foam, Dry Chemical, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Material will not burn unless preheated. Do Not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

FLAMMABLE LIMITS: Lel - N/AV; Uel - N/AV UNUSUAL FIRE & EXPLOSION HAZARDS: See Section XII

SECTION IX <u>REACTIVITY</u>

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will Not Occur

ONDITIONS AND MATERIALS TO AVOID: Can react vigorously with strong oxidizing agents, strong Lewis or ineral acids, and strong mineral and organic bases/especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat. Run-a-way cure reactions may char and decompose the resin system, generating unidentified fumes and vapors which may be toxic. See Section XII.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Aldehydes, Acids and other organic substances may be formed during combustion or elevated (>500?F) temperature degradation. See Section XII.

SECTION X <u>EMPLOYEE PROTECTION</u>

RESPIRATORY PROTECTION: Not ordinarily required.

PROTECTIVE CLOTHING: Avoid contact with eyes. Wear safety glasses or goggles as appropriate. Avoid prolonged or repeated contact with skin. Wear chemical resistant gloves and other clothing as required to minimize contact.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

May burn although not readily ignitable. Use cautious judgement when cleaning up large spills.

*** LARGE SPILLS*** Wear respirator and protective clothing as appropriate. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers and seal tightly for proper disposal. Flush area with water to remove trace residue; dispose of flush solution as above.

*SMALL SPILLS*** Take up with an absorbent material and place in non-leaking containers for proper disposal.

SECTION XII

SPECIAL PRECAUTIONS

fore in a cool, dry place. Keep away from open flames and high temperatures.

Containers, even those that have been emptied, can contain hazardous product residues. Handle in accordance with the hazard potential of curing agent(s) used. Caution: May cause irritation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

Heating this resin above 300?F in the presence of air may cause slow oxidative decomposition above 500?F, polymerization may occur. Some agents, e.g., Aliphatic Polyamines can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do Not breath fumes.

Use a NIOSH approved respirator as required to prevent over exposure. In accordance with 20 CFR 1910.134, use either an atmosphere-supply respirator or an air-purifying respirator for organic vapors. If this resin is handled, shipped, or stored in bulk, the recommended pumping temperature is 180?F, max. to prevent thermal burns, avoid skin and eye contact with hot liquid.

SECTION XIII TRANSPORTATION REQUIREMENTS

D.O.T. CLASSIFICATION:

Not hazardous by D.O.T. regulations

D.O.T. PROPER SHIPPING NAME:

Not regulated

OTHER REQUIREMENTS:

N/A

ECTION XIV

OTHER REGULATORY CONTROLS

This product is listed on the EPA/TSCA inventory of chemical substances.

Protection of stratospheric ozone (pursuant to Section 611 of the clean air act amendments of 1990): per 40 CFR Part 82, this product does not contain nor was it directly manufactured with any class I or class II ozone depleting substances.

In accordance with SARA Title III, Section 313, the attached environmental data sheet (EDS) should always be copied and sent with the MSDS.

SECTION XV STATE REGULATORY INFORMATION

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

State Listed Component

Percent

State Code

Diglycidyl Ether (CAS #: 2238-07-5)

2 PPM

MA

Phenyl Glycidyl Ether (CAS #: 122-60-1)

6 PPM

CA65C

CA65C = California Safe Drinking Water and Toxics Enforcement Act List or Proposition 65 List MA = Massachusetts Substance List

nis product contains a chemical or chemicals known to the state of California to cause cancer.

SECTION XVI

SPECIAL NOTES

_ee Environmental Data Sheet for waste disposal and other environmental information.

* * * * * * * ENVIRONMENTAL DATA SHEET * * * * * *

SECTION I

PRODUCT COMPOSITION

Bisphenol A/Epichlorohydrin Epoxy Resin

CAS #: 25068-38-6 >90%

SECTION II

SARA TITLE III INFORMATION

Bisphenol A/Epichlorohydrin Epoxy Resin

311/312 CATEGORY: Immediate (Acute) Health Hazard

SECTION III

ENVIRONMENTAL RELEASE INFORMATION

Keep our of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public occurs or is likely to occur.

SECTION IV

RCRA INFORMATION

If this product becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local regulations.

l information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by SYON Corporation as to the effects of such use, the results obtained, or the safety and toxicity of the product nor does SYON Corporation assume any liability arising out of use, by others of the product referred to herein. This information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

MATERIAL SAFETY DATA SHEET

SECTION I PART NUMBER SR-216 PART B, ALMOND BATH/TUB REPAIR KIT

SUPPLIERS NAME: ITW PERFORMANCE POLYMERS CONSUMER DIVISION SYON CORPORATION

2107 WEST BLUE HERON BLVD.

RIVIERA BEACH, FL 33404

EMERGENCY TELEPHONE NUMBER: Chem Trec: 800-424-9300

REVISED:

June 2000

SECTION II PRODUCT IDENTIFICATION

TRADE NAME: SR-216 Almond Bath/Tub Repair Kit Part B

CHEMICAL FAMILY: Epoxy Curing Agents

FORMULA: Proprietary

SECTION III <u>HAZARDOUS INGREDIENTS</u>, percent & TLV

This compound contains no materials identified as hazardous by either the Massachusetts Right to Know Law or by the OSHA Safety and Health Standards 29CFR1910 Subpart Z "Toxic and Hazardous Substances".

ECTION IV PHYSICAL DATA

BOILING POINT: N/DSPECIFIC GRAVITY: 1.15 MELTING POINT: N/D WATER MISCIBILITY: Slight VAPOR PRESSURE: N/D PERCENT VOLATILE: 0.3VAPOR DENSITY: N/D **EVAPORATION RATE:** NA APPEARANCE & ODOR: Clear White to Yellow Liquid; Mercaptan Odor

SECTION V FIRE & EXPLOSION HAZARD DATA

FLASH POINT: 495?F COC

EXTINGUISHING MEDIA: CO₂, Dry Chemical, Water Spray

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water. Use self contained

breathing apparatus.

FLAMMABLE LIMITS: Lel - NA; Uel - NA

UNUSUAL FIRE & EXPLOSION HAZARDS: Water may spread fire (product floats on water).

SECTION VI <u>HEALTH HAZARD DATA</u>

SKIN AND EYE CONTACT: May cause eye and skin irritation on prolonged or repeated exposure. Protect eyes, skin and clothing from contact with product. Wash thoroughly after handling.

INHALATION: May be harmful if inhaled in large amounts or for prolonged periods. Do Not inhale product.

"AL INGESTION: May be harmful if swallowed. Wash thoroughly after handling.

ROUTES OF EXPOSURE: Inhalation, Dermal, Oral

_MERGENCY & FIRST AID:

EYES: Flush immediately with plenty of water for at least 15 minutes.

SKIN: Remove contaminated clothing. Wash with soap and water. Consult a physician if irritation

persists.

INHALATION: Remove to fresh air.

INGESTION: Do not induce vomiting. Immediately drink a large quantity of milk or water and call a

physician.

SECTION VII <u>REACTIVITY DATA</u>

STABILITY: Stable

CONDITIONS TO AVOID: Storage at elevated temperatures over long periods of time.

INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION

PRODUCTS: CO, CO₂, Oxides of Nitrogen, Oxides of Sulfur

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Excessive exothermic heat when cured

SECTION VIII SPILL OR LEAK PROCEDURES

Wear appropriate protective clothing and respirator. Dike to contain (if large spill). Absorb spill with dry material. Scoop up excess and remove. Residual can be removed with nonflammable solvent. Flush area with water. Incinerate in accordance with local pollution regulations and ordinances.

_ECTION IX SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved organic vapor respirator

VENTILATION: Local exhaust

OTHER PROTECTIVE EQUIPMENT: Impervious gloves, splash-proof goggles, safety shower, and eye wash

facilities.

SECTION X HANDLING AND STORAGE

Do Not Store near epoxy resins.

SECTION XI TRANSPORTATION INFORMATION

D.O.T. HAZARDOUS MATERIALS:

IMO SHIPPING DATA:

NOT REGULATED

NOT REGULATED

ICAO/IATA SHIPPING DATA

Other Regulated Substance// 9 // ID 8027 (Due to Odor Only)

EMERGENCY RESPONSE GUIDE NUMBER: 00

HARMONIZE NUMBER: 2930.90.5050 0

PACKAGING GROUP: None

SECTION XII

REGULATORY INFORMATION

SCA: This product and/or all of it's components are registered as required by TSCA.

(b) EXPORT NOTIFICATION: None

SARA TITLE III:

302EHS: None

302(CERCLA): None

311/312 Product Hazard Class: Acute N; Chronic N; Fire N; Sudden Release N; Reactive N

313 Toxic Chemicals: None

All information, recommendations, and suggestions appearing herein concerning our product and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by SYON Corporation as to the effects of such use, the results obtained, or the safety and toxicity of the product nor does SYON Corporation assume any liability arising out of use, by others of the product referred to herein. This information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



Revision Number: 002.0

Issue date: 03/20/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

OSI Quad Max Clear Window & Door

IDH number:

2445634

Product type/use:

Restriction of Use:

Joint sealant, polymer silan-modified None identified

Region:

United States

Company address: Henkel Corporation

. .

Contact Information:

Telephone: +1 (860) 571-5100

One Henkel Way Rocky Hill, Connecticut 06067

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING:

HARMFUL IF INHALED.

HAŻARD CLASS		HAZARD CATEGORY	
ACUTE TOXICITY INHALATION		4	
	PICTOGRAM(S)		
	\•\		

Precautionary Statements

Prevention:

Avoid breathing dust or fumes. Use only outdoors or in a well-ventilated area.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Storage:

Not prescribed

Disposal:

Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Trimethoxyvinylsilane	2768-02-7	1 - 5	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	0.1 - 1	

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

IDH number: 2445634

Product name: OSI Quad Max Clear Window & Door Sealant

Page 1 of 5

Exposure to moisture during cure will release 0.1 - 0.9% methanol.

	4. FIRST AID MEASURES
A sept in the	4. FIRST AID WEASURES
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Wash with soap and water. If skin irritation persists, call a physician. Wipe off paste with paper towel or cloth.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. If symptoms develop and persist, get medical attention.
Ingestion:	Do not induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Symptoms:	See Section 11.
5.	FIRE FIGHTING MEASURES
Extinguishing media:	carbon dioxide, foam, powder, water spray jet, fine water spray
Special firefighting procedures:	Wear protective equipment. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	None identified.
Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
6. ACC	IDENTAL RELEASE MEASURES
Use personal protection recommended in Sec personnel.	ation 8, isolate the hazard area and deny entry to unnecessary and unprotected
Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Store in a partly filled, closed container until disposal. Spilled material will solidify. Scrape up as much material as possible. Maintain good ventilation for large spills.
7.	HANDLING AND STORAGE
Handling:	Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. Avoid contact with eyes, skin and clothing. Keep out of the reach of children. Protect from moisture. Use only with adequate ventilation.
Storage:	For safe storage, store between -20 °C (-4°F) and 50 °C (122°F) Outside temperature limits, the product will be irreversibly damaged and no longer usable.
For information on product shel	f life, please review labels on container or check the Technical Data Sheet.

IDH number: 2445634

Product name: OSI Quad Max Clear Window & Door Sealant Page 2 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Trimethoxyvinylsilane	None	None	None	None
Bis(2,2,6,6-tetramethyi-4-piperidyl) sebacate	None	None	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eyelface protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Transparent Odor: Alcohol **Odor threshold:** Not available,

pH: Not applicable Vapor pressure: Not applicable Boiling point/range: Not applicable Not applicable Melting point/ range: Specific gravity: 1.05 Vapor density: Heavier than air.

Product is a solid. Flash point: Flammable/Explosive limits - lower: Not available. Not available. Flammable/Explosive limits - upper: Not applicable

Autoignition temperature: Not applicable Flammability: Evaporation rate: Not applicable Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

2.95 %; 53.3 g/l (by weight, calculated using CARB method; g/L less water, VOC content:

less exempts calculated using SCAQMD method)

Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Methanol is liberated slowly upon exposure to moisture.

Incompatible materials: Oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Exposure to moisture.

IDH number: 2445634 Product name: OSI Quad Max Clear Window & Door Sealant

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11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:

May cause nose, throat and lung irritation.

Skin contact:

Causes skin irritation.

Eye contact: Ingestion:

Causes serious eye irritation. May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Trimethoxyvinylsilane	None	Irritant, Allergen
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Trimethoxyvinylsilane	No	No	No
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

None

IDH number: 2445634

Product name: OSI Quad Max Clear Window & Door Sealant

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Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division: Identification number: Packing group: Not regulated

None None None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: None above reporting de minimis.

Immediate Health None above reporting de minimis.

California Proposition 65:

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California

to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities, Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 15

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

03/20/2019

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This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910, 1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.

IDH number: 2445634

Product name: OSI Quad Max Clear Window & Door Sealant

Page 5 of 5

Safety Data Sheet



Revision Number: 007.0

Issue date: 09/07/2022

PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Quad Max Window, Door and Siding Sealant

2622496

Product type/use:

Joint sealant, polymer silan-modified

United States

Restriction of Use: Company address: **Henkel Corporation**

Rocky Hill, Connecticut 06067

One Henkel Way

None identified

Region: Contact Information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW	
WARNING:	CAUSES SKIN IRRITATION.	
	CAUSES SERIOUS EYE IRRITATION.	

	HAZARD CLASS	HAZAI	RD CATEGORY
SKIN IRRITATION			2
EYE IRRITATION			2A

PICTOGRAM(S)



Precautionary Statements

Prevention:

Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face

Response:

IF ON SKIN: Wash with plenty of water, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing, If skin irritation

occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage:

Disposal:

Not prescribed Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	-
Limestone	1317-65-3	50 - 60	
Phthalic acid, di(C9-11)alkylester, branched, C10-rich	68515-49-1	5 - 10	·
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	1 - 5	
Trimethoxyvinyisilane	2768-02-7	1 - 5	
Benzene, mono-C12-14-alkyl derivs.	129813-59-8	1 - 5	
Quartz (SiO2)	14808-60-7	0.1 - 1	

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

IDH number: 2622496

Product name: Quad Max Window Door and Siding Sealant

Exposure to moisture during cure will release 0.1 - 0.9% methanol.

4. FIRST AID MEASURES

Inhalation:

Move to fresh air, If symptoms persist, seek medical advice.

Skin contact:

Wash with soap and water. If skin irritation persists, call a physician. Wipe off

paste with paper towel or cloth.

Eye contact:

Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. If symptoms develop and

persist, get medical attention.

Ingestion:

Do not induce vomiting: If a person feels unwell or symptoms of skin irritation

appear, consult a physician.

Symptoms:

See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Special firefighting procedures:

Wear protective equipment. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards:

None identified.

Hazardous combustion products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

. ₽. 1 Do not allow product to enter sewer or waterways.

Clean-up methods:

Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Store in a partly filled, closed container until disposal. Spilled material will solidify. Scrape up as much material as possible. Maintain good ventilation for

large spills.

7. HANDLING AND STORAGE

Handling:

Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. Avoid contact with eyes, skin and clothing. Keep out of the reach of children. Protect from

moisture. Use only with adequate ventilation.

Storage:

For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

Store in a cool, dry area. Avoid moisture.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

IDH number: 2622496

Product name: Quad Max Window, Door and Siding Sealant

Page 2 of 6

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Inhalable particles. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None
Phthalic acid, di(C9-11)alkylester, branched, C10-rich	None	None	None	None
Benzene, mono-C10-13-alkyl derivs.	None	None	None	None
Trimethoxyvinylsilane	None	None	None	None
Benzene, mono-C12-14-alkyl derivs.	None	None	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable.	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

limits

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eyelface protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin

contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Color:

Liquid Various

Odor:

Alcohol Not available. Not applicable

Odor threshold: pH:

Not applicable
Not applicable
Not applicable

Vapor pressure: Boiling point/range: Melting point/ range:

Not applicable 1.4 - 1.5 at 20 °C (68°F)

Specific gravity: Vapor density:

Heavier than air.

Flash point: Flammable/Explosive limits - lower: 107 °C (224.6 °F) Seta closed cup

Flammable/Explosive limits - upper:

Not available. Not available.

Autoignition temperature: Flammability: Not applicable
Not applicable
Not applicable

Evaporation rate: Solubility in water:

Insoluble Not available

Partition coefficient (n-octanol/water):

2.48 %; 36 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)

VOC content: Viscosity:

Not available. Not available.

Decomposition temperature:

Product name: Quad Max Window, Door and Siding Sealant

IDH number: 2622496

Page 3 of 6

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Methanol is liberated slowly upon exposure to moisture.

Hazardous reactions:

Will not occur.

Hazardous decomposition

Incompatible materials:

products:

Oxidizing agents.

Reactivity:

Not available.

Conditions to avoid:

Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:

May cause nose, throat and lung irritation. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation.

Normal use of this product causes no such release.

Skin contact:

Eye contact: Ingestion:

Causes skin irritation. Causes serious eye irritation. May be harmful if swallowed.

Acute inhalation product

toxicity:

The substance or mixture has no acute inhalation toxicity.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delaye	d Health Effects
Limestone	None	Nuisance	dust
Phthalic acid, di(C9-11)alkylester, branched, C10-rich	None	Irritan	
Benzene, mono-C10-13-alkyl derivs.	None	No Dat	
Trimethoxyvinylsilane	Inhalation LC50 (Rat, 4 h) = 2773 ppm	Irritant, Alle	ergen
Benzene, mono-C12-14-alkyl derivs.	None	No Dat	a
Quartz (SiO2)	None	Immune system, Lung, s carcinoger	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Phthalic acid, di(C9-11)alkylester, branched, C10-rich	No	No	No
Benzene, mono-C10-13-alkyl deriys.	No	No	No
Trimethoxyvinylsilane	No	No	No
Benzene, mono-C12-14-alkyl derivs.	No	No	No
Quartz (SiO2)	Known To Be Human	Group 1	Yes

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

IDH number: 2622496

Product name: Quad Max Window, Door and Siding Sealant

Page 4 of 6

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number: Packing group:

None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division: Identification number: None None

Packing group:

None

Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division: Identification number: None None

Packing group:

None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed as active or are exempt from listing on the Toxic Substances

TSCA 12 (b) Export Notification:

Control Act (TSCA) inventory. None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis. Delayed Health, Immediate Health

CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:

None above reporting de minimis,

California Proposition 65:

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California

to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 3, 8, 11, 13

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

09/07/2022

IDH number; 2622496 Product name: Quad Max Window Door and Siding Sealant

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Revision Number: 005.0

Issue date: 10/06/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE® 565™ PST® PIPE SEALANT IDH number:

88551

THREAD SEALANT

Product type:

Anaerobic Sealant

56531

Restriction of Use: Company address: None identified

item number: Region: **United States**

Henkel Corporation One Henkel Way

Contact Information: Telephone: (860) 571-5100

Rocky Hill, Connecticut 06067

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

WARNING:

EMERGENCY OVERVIEW

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	_ 2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

Prevention:

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face protection.

Response:

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation

persists: Get medical attention. Take off contaminated clothing.

Storage:

Disposal:

Not prescribed

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: 88551

Product name: LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT Page 1 of 6

Hazardous Component(s)	CAS Number	Percentage*	
Ethene, tetrafluoro-, homopolymer	9002-84-0	1-5	
Titanium dioxide	13463-67-7	1-5	
Treated fumed silica	67762-90-7	1-5	
Saccharin	81-07-2	1 - 5	
Cumene hydroperoxide	80-15-9	1-5	
Ethylene glycoi	107-21-1	0.1 - 1	
Cumene	98-82-8	0.1 - 1	

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:

Move to fresh air, if breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact:

Remove contaminated clothing and footwear. Wash clothing before reuse. Immediately flush skin with plenty of water (using soap, if available). Get

medical attention.

Eye contact:

Get medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes.

Ingestion:

Never give anything by mouth to an unconscious person. Do not induce

vomiting. Get medical attention.

Symptoms:

See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures:

Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards:

Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers.

Hazardous combustion products:

Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Toxic fluorine

compounds. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Do not allow product to enter sewer or waterways.

Clean-up methods:

Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

Product name: LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT Page 2 of 6

IDH number: 88551

7. HANDLING AND STORAGE

Handling:

Keep container closed. Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash

thoroughly after handling. Refer to Section 8.

Storage:

For safe storage, store at or below 38 °C (100.4 °F)

Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethene, tetrafiuoro-, homopolymer	None	None	None	10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Saccharin	None	None	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Ethylene glycol	25 ppm TWA Vapor fraction 50 ppm STEL Vapor fraction 10 mg/m3 STEL Aerosol, inhalable.	None	None	None
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene, Butyl-rubber, or nitrile-

rubber gloves.

IDH number: 88551

Product name: LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT

Page 3 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Liquid, Paste White Mild

Odor threshold: pH: Not available. Not applicable

pH:

Odor:

Not applicable < 5 mm hg (27 °C (80.6 °F))

Vapor pressure: Boiling point/range: Melting point/ range:

> 149 °C (> 300.2 °F) Not available.

Specific gravity: Vapor density:

Not available. > 93 °C (> 199.4 °F)

Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper:

> 93 °C (> 199.4 °F) Not available. Not available. Not available.

Autoignition temperature: Flammability: Evaporation rate:

Not available. Not available. Slight

Solubility in water:
Partition coefficient (n-octanol/water):

Not available.

VOC content:

0.11 %; 1.06 g/l Method 40 CFR Part 63 Appendix A to Subpart PPPP

Viscosity: Decomposition temperature: Not available. Not available.

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

Hazardous decomposition

products:

Oxides of carbon. Toxic fluorine compounds. Oxides of nitrogen. Oxides of sulfur. Irritating

organic vapours.

Incompatible materials:

Strong oxidizing agents.

Reactivity:

IDH number: 88551

Not available.

Conditions to avoid:

Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Skin contact:

Causes skin irritation.

Eye contact:

Causes serious eye irritation.

Ingestion:

May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Ethene, tetrafluoro-, homopolymer	None	No Target Organs	
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity	
Treated fumed silica	None	Imitant	
Saccharin	Oral LD50 (Mouse) = 17 g/kg	No Target Organs	
Cumene hydroperoxide	Inhalation LC50 (Mouse, 4 h) = 200 mg/l	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Ethylene glycol	Oral LD50 (Rat) = 5.89 g/kg Oral LD50 (Mouse) = 14.6 g/kg Dermal LD50 (Rabbit) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic	
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg Inhalation LC50 (Rat, 4 h) = 8000 ppm	Central nervous system, Irritant, Lung	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethene, tetrafluoro-, homopolymer	No	No	No
Titanium dioxide	No	Group 2B	No
Treated fumed silica	No	No	No
Saccharin	No	No	No
Cumene hydroperoxide	No	No	No
Ethylene glycol	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Hazard class or division: RQ, Environmentally hazardous substance, liquid, n.o.s. 9

Identification number:

UN 3082

Packing group: DOT Hazardous Substance(s):

alpha,alpha-Dimethylbenzylhydroperoxide

Product name: LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT Page 5 of 6

International Air Transportation (ICAO/IATA)

Proper shipping name: Hazard class or division:

Identification number:

Packing group:

RQ, Environmentally hazardous substance, liquid, n.o.s.

UN 3082

111

Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division:

Identification number:

Packing group:

RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082

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15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

TSCA 12 (b) Export Notification:

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

CERCLA/SARA Section 313:

CERCLA Reportable quantity:

California Proposition 65:

CEPA DSL/NDSL Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

Ethene, tetrafluoro-, homopolymer (CAS# 9002-84-0).

Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

None above reporting de minimis. Immediate Health, Delayed Health

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Saccharin (CAS# 81-07-2). Cumene hydroperoxide (CAS# 80-15-9).

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm,

Canada Regulatory Information

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

10/06/2017

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> Product name: LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT Page 6 of 6

IDH number: 88551



SAFETY DATA SHEET

HENG'S RUBBER ROOF COATING 46128-4, 46032

SECTION 1, COMPANY & PRODUCT IDENTIFICATION

COMPANY INFORMATION:

Heno's Industries

3500 Lexington Park Drive

Elkhart, IN 46514

Phone: 574-295-1200

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT NUMBER:

46128-4, 46032

PRODUCT DESCRIPTION:

Water-Based Adhesive, Rubber Roof Coating

SECTION 2, HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

HMIS RATING: HEALTH - 0

FLAMMABILITY - 0

REACTIVITY - 0

See SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION for personal protective

equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY:

EYE: No irritation hazard in normal industrial use.

SKIN: No imitation hazard in normal industrial use.

INHALATION: No irritation hazard in normal industrial use. Inhalation of dusts produced during cutting,

grinding or sanding of this product may cause irritation of the respiratory tract. Prolonged

Exposure may lead to inflammation & ulceration.

INGESTION: ingestion is not an anticipated route of exposure.

LONG-TERM (CHRONIC) EFFECTS

TARGET ORGAN(S): No organs known to be damaged from exposure to this product.

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: No medical conditions affected by exposure.

SECTION 3, COMPOSITION/INFORMATION ON INGREDIENTS

Based on data available to Heng's Industries, none of the components in this product are considered hazardous according to OSHA Hazard Communication Standard (29 CFR 1910. 1200). The composition of this compound is proprietary information. In the event of a medical emergency, detailed information will be provided to a nurse or physician.

SECTION 4, FIRST AID MEASURES

IF IN EYES: Remove the substance from the eye(s), & immediately flush eye(s) with plenty of water while retracting eyelids often. If inflammation or blurred vision develops, seek medical attention & provide the medical care professional with this MSDS.

IF ON SKIN: Wash with soap & water.

IF VAPORS INHALED: Not an anticipated route of exposure. If dusts are produced by cutting or sanding this product, please consider improving work site ventilation.

IF SWALLOWED: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with MSDS.

SECTION 5, FIRE FIGHTING MEASURES

FLASH POINT: 212F

AUTOIGNITION TEMERATURE: Not established LOWER EXPLOSIVE LIMIT (% in air): Not established UPPER EXPLOSIVE LIMIT (% in air): Not established

EXTINGUISHING MEDIA:

Use water spray, foam, dry chemical or carbon dioxide. UNUSUAL FIRE & EXPLOSION HAZARDS:

There is a possibility of pressure buildup in closed containers when heated. Water spray may be used

to cool the containers.

Persons exposed to products of combustion should SPECIAL FIRE FIGHTING INSTRUCTIONS:

wear self-contained breathing apparatus & full pro-

tective equipment.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon Monoxide

SECTION 6, ACCIDENTAL RELEASE MEASURES

No adverse health effects expected from the clean-up of spilled material. Follow **SPECIAL**

PROTECTION: personal protective equipment recommendations found in Section 8 of this MSDS.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7, HANDLING & STORAGE

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear goggles when handling this product.

SKIN PROTECTION: Protect skin accordingly if working in environments with elevated temperatures.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: Not normally required.

VENTILATION: Use local exhaust ventilation to minimize exposure.

HYGIENIC PRACTICES: Wash hands before eating, smoking or using the restroom.

EXPOSURE LIMITS: None applicable for this product when used for normal industrial applications. Avoid excessive & unnecessary exposure whenever possible. If deemed useful & essential for treatment, specific exposure limits of raw materials used during the manufacturing process will be provided to a nurse or physician.

SECTION 9, PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid COLOR: White ODOR: Sweet, Mild Not established **ODOR THRESHOLD:** 1.12 - 1.19SPECIFIC GRAVITY: SOLIDS (% by weight): 59-64% Not established pH: BOILING POINT (deg. C): Not established FREEZING/MELTING POINT (deg. C): Not established VAPOR PRESSURE (mmHg): Not established VAPOR DENSITY: Not established Not established **EVAPORATION RATE:** OCTANOLWATER COEFF(CIENT: Not established

SECTION 10, STABILITY & REACTIVITY

STABILITY: Stable under normal conditions

Not established CHEMICAL INCOMPATIBILITY: Will not occur. HAZARDOUS POLYMERIZATION:

Carbon Monoxide, Carbon Dioxide, Bromine HAZARDOUS DECOMPOSITION:

containing gases PRODUCTS:

SECTION 11, TOXICOLOGICAL INFORMATION

Chemical Name		LD50/LC50	
Zinc Oxide	<u> </u>	Oral LD50 Mouse > 950 mg/kg	
			<u> </u>

TOXICOLOGY SUMMARY: No additional health information available.

SECTION 12, ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available.

SECTION 13, DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulation 40 CFR 261. Dispose of in accordance with federal, state & local law. Consult your state, local or provincial authorities & your local waste vendor for more restrictive requirements.

SECTION 14, TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

SECTION 15, REGULATORY INFORMATION

INVENTORY STATUS:

U.S. EPA TSCA:

This product is in compliance with the Toxic Substance Control Act's Inventory requirements.

If you need more information about the inventory status of this product, call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental protection Agency, the Bureau of Industry & Security or the Drug Enforcement Administration, among others.)

FEDERAL REPORTING: EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) & 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%	

CANADIAN WHMIS STATUS: To the best of my knowledge, this material is classified as a NON-CONTROLLED PRODUCT.

SECTION 16, OTHER INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety & Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910. 1200).

Prepared by: Heng's Industries

04/01/2016

Phone: 574-295-1200

The information & recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Heng's Industries from its suppliers & because Heng's Industries has no control over the conditions of handling & use, Heng's Industries makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information & consideration & Heng's Industries assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Heng'ds Industries products to comply with all applicable federal, state & local laws & regulations.



SAFETY DATA SHEET

HENG'S RUBBER ROOF COATING 46128-4, 46032

SECTION 1, COMPANY & PRODUCT IDENTIFICATION

COMPANY INFORMATION:

Heng's Industries

3500 Lexington Park Drive

Elkhart, IN 46514

Phone: 574-295-1200

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT NUMBER:

46128-4, 46032

PRODUCT DESCRIPTION:

Water-Based Adhesive, Rubber Roof Coating

SECTION 2, HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

HMIS RATING: HEALTH - 0

FLAMMABILITY - 0

REACTIVITY - 0

See SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION for personal protective

equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY:

EYE: No irritation hazard in normal industrial use.

SKIN: No irritation hazard in normal industrial use.

INHALATION: No imitation hazard in normal industrial use. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Prolonged

Exposure may lead to inflammation & ulceration.

INGESTION: Ingestion is not an anticipated route of exposure.

LONG-TERM (CHRONIC) EFFECTS

TARGET ORGAN(S): No organs known to be damaged from exposure to this product.

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: No medical conditions affected by exposure.

SECTION 3, COMPOSITION/INFORMATION ON INGREDIENTS

Based on data available to Heng's Industries, none of the components in this product are considered hazardous according to OSHA Hazard Communication Standard (29 CFR 1910, 1200). The composition of this compound is proprietary information. In the event of a medical emergency, detailed information will be provided to a nurse or physician.

SECTION 4. FIRST AID MEASURES

IF IN EYES: Remove the substance from the eye(s), & immediately flush eye(s) with plenty of water while retracting eyelids often. If inflammation or blurred vision develops, seek medical attention & provide the medical care professional with this MSDS.

IF ON SKIN: Wash with soap & water.

IF VAPORS INHALED: Not an anticipated route of exposure. If dusts are produced by cutting or this product, please consider improving work site ventilation.

IF SWALLOWED: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with MSDS.

SECTION 5, FIRE FIGHTING MEASURES

FLASH POINT:

212F

AUTOIGNITION TEMERATURE: LOWER EXPLOSIVE LIMIT (% in air):

Not established Not established

UPPER EXPLOSIVE LIMIT (% in air):

Not established

EXTINGUISHING MEDIA:

UNUSUAL FIRE & EXPLOSION HAZARDS:

Use water spray, foam, dry chemical or carbon dioxide. There is a possibility of pressure buildup in closed

containers when heated. Water spray may be used

to cool the containers.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

Persons exposed to products of combustion should wear self-contained breathing apparatus & full pro-

tective equipment.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon Monoxide

SECTION 6, ACCIDENTAL RELEASE MEASURES

SPECIAL

PROTECTION:

No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7, HANDLING & STORAGE

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear goggles when handling this product.

SKIN PROTECTION: Protect skin accordingly if working in environments with elevated temperatures.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: Not normally required.

VENTILATION: Use local exhaust ventilation to minimize exposure.

HYGIENIC PRACTICES: Wash hands before eating, smoking or using the restroom.

EXPOSURE LIMITS: None applicable for this product when used for normal industrial applications. Avoid excessive & unnecessary exposure whenever possible. If deemed useful & essential for treatment, specific exposure limits of raw materials used during the manufacturing process will be provided to a nurse or physician.

SECTION 9, PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid COLOR: White ODOR: Sweet, Mild ODOR THRESHOLD: Not established SPECIFIC GRAVITY: 1.12 - 1.19SOLIDS (% by weight): 59-64%

pH; Not established BOILING POINT (deg. C): Not established FREEZING/MELTING POINT (deg. C): Not established VAPOR PRESSURE (mmHg): Not established VAPOR DENSITY: Not established

EVAPORATION RATE: Not established OCTANOLWATER COEFFICIENT: Not established

SECTION 10, STABILITY & REACTIVITY

STABILITY:

Stable under normal conditions

CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION:

Not established Will not occur

HAZARDOUS DECOMPOSITION:

Carbon Monoxide, Carbon Dioxide, Bromine

PRODUCTS:

containing gases

SECTION 11, TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Zinc Öxide	Oral LD50 Mouse > 950 mg/kg
	, , , , , , , , , , , , , , , , , , ,

TOXICOLOGY SUMMARY: No additional health information available.

SECTION 12, ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available.

SECTION 13, DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulation 40 CFR 261. Dispose of in accordance with federal, state & local law. Consult your state, local or provincial authorities & your local waste vendor for more restrictive requirements.

SECTION 14, TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

SECTION 15, REGULATORY INFORMATION

INVENTORY STATUS:

U.S. EPA TSCA:

This product is in compliance with the Toxic Substance Control Act's Inventory requirements.

If you need more information about the inventory status of this product, call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental protection Agency, the Bureau of Industry & Security or the Drug Enforcement Administration, among others.)

FEDERAL REPORTING: EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) & 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
	•	
i		

CANADIAN WHMIS STATUS: To the best of my knowledge, this material is classified as a NON-CONTROLLED PRODUCT.

SECTION 16, OTHER INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety & Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910. 1200).

Prepared by: Heng's Industries

04/01/2016

Phone: 574-295-1200

The information & recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Heng's Industries from its suppliers & because Heng's Industries has no control over the conditions of handling & use, Heng's Industries makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information & consideration & Heng's Industries assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Heng'ds Industries products to comply with all applicable federal, state & local laws & regulations.



SAFETY DATA SHEET

HENG'S WHITE ALKYD FIBERED ROOF COATING 45128-4, 45032, 45640

SECTION 1, COMPANY & PRODUCT IDENTIFICATION

COMPANY INFORMATION:

Heng's Industries

3500 Lexington Park Drive

Elkhart, IN 46514

Phone: 574-295-1200

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT NUMBER:

45128-4, 45032, 45640

PRODUCT DESCRIPTION:

Heng's White Alkyd Fibered Roof Coating

SECTION 2, HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

Cancer Hazard

HMIS RATING: HEALTH - 0

FLAMMABILITY - 1

REACTIVITY - 0

See SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION for personal protective equipment

recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY:

EYE: Eye contact may cause moderate to severe eye irritation. Eye contact may result in tearing & reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

SKIN: Can cause moderate skin irritation, defatting & dermatitis. Not likely to cause permanent damage.

Avoid unnecessary exposure.

INHALATION: Can cause moderate respiratory irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause imitation of the respiratory tract. Inhalation of high concentrations may result in central nervous system (CNS) impairment such as dizziness, weakness, fatigue, nausea, headache & lack of coordination. This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of this product, such material(s) are encapsulated within the product & will not present an exposure risk. Once the product has reached its final state & is abraded or disturbed, dusting & exposure may occur.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Seek medical attention.

LONG-TERM (CHRONIC) EFFECTS

TARGET ORGAN(S): Central Nervous System, Lungs, Kidneys

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease, kidney disease

SECTION 3, COMPOSITION/INFORMATION ON INGREDIENTS

Based on data available to Heng's Industries, none of the components in this product are considered hazardous according to OSHA Hazard Communication Standard (29 CFR 1910. 1200). The composition of this compound is proprietary information. In the event of a medical emergency, detailed information will be provided to a nurse or physician.

1 of 4

Chemical Name	CAS#	PERCENT	OSHA PEL	
Stoddard Solvent	8052-41-3	1-5	TWA 100 ppm	
Soybean Oil	68122-64-5	40-50	TWA (Respirable dust) %MG/M3; TWA (Total dust)	15 MG/M3

SECTION 4, FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention & monitor the eye daily as advised by your physician.

IF ON SKIN: Wash with soap & water. Remove contaminated clothing & launder. Get medical attention if imitation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

if SWALLOWED: Do not indude vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5, FIRE FIGHTING MEASURES

FLASH POINT:

AUTOIGNITION TEMERATURE: LOWER EXPLOSIVE LIMIT (% in air): UPPER EXPLOSIVE LIMIT (% in air):

EXTINGUISHING MEDIA:

UNUSUAL FIRE & EXPLOSION HAZARDS:

SPECIAL FIRE FIGHTING INSTRUCTIONS:

64C, 147F Not established

Not established Not established

Use water spray, foam, dry chemical or carbon dioxide.

Material will burn in a fire.

Persons exposed to products of combustion should wear self-contained breathing apparatus & full pro-

tective equipment.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon monoxide Chlorine containing

SECTION 6, ACCIDENTAL RELEASE MEASURES

SPECIAL

No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

PROTECTION: CLEAN UP:

Scrape up & place in disposal container.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7, HANDLING & STORAGE

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry ventilated location. Keep away from heat, sparks, flame & other sources of

ignition. Keep container closed.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

SKIN PROTECTION:

Wear safety glasses with side shields when handling this product...

Avoid skin contact by wearing chemically resistant gloves & a long sleeved

Butyl rubber or nitrile gloves are recommended.

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid exposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. A NIOSH approved air purifying respirator with an organic vapor cartridge is recommended. Respirators should be selected by & used following requirements found in OSHA's

respirator standard (29 CFR 1910.134).

VENTILATION:

GLOVES:

Use local exhaust ventilation or other engineering controls to minimize

exposures

EXPOSURE LIMITS:

Chemical Name	ACCIU EVIDOUIDE LIMITO	
	ACGIH EXPOSURE LIMITS	AIHA WEEL
Stoddard solvent	TWA 100 ppm	Not established

SECTION 9, PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: Gel
COLOR: White

ODOR: Solvent, Aromatic pre-cure

ODOR THRESHOLD:
SPECIFIC GRAVITY:

Not established
1.4 – 1.5

WEIGHT PER GALLON (lbs.): 12.0 SOLIDS (% by weight): 73%

pH:
BOILING POINT (deg. C);
FREEZING/MELTING POINT (deg. C):
VAPOR PRESSURE (mmHg):
VAPOR DENSITY:
EVAPORATION RATE:

Not established
Not established
Not established
Not established

OCTANOLWATER COEFFICIENT: Not established

SECTION 10, STABILITY & REACTIVITY

STABILITY: Stable under normal conditions

CHEMICAL INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS POLYMERIZATION: Will not occur
HAZARDOUS DECOMPOSITION Carbon Monoxide, Carbon Dioxide, chlorine containing

PRODUCTS: gases, nitrogen containing gases

SECTION 11, TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Calcium Carbonate	Oral LD50 Rat = 6450 mg/kg
Silica, amorphous furned	Oral LD50 Rat = 3160 mg/kg
Carbon Black	Oral LD50 Rat > 15400 mg/kg; Dermal LD50 Rabbit > 3g/kg

TOXICOLOGY SUMMARY: No additional health information available.

SECTION 12, ECOLOGICAL INFORMATION

OVERVIEW: Volatile Organic Content

94 gVOC/lier of material (VOC theoretically determined using EPA Reference method 24)

94 gVOC/liter of material, less water & exempt solvents (VOC theoretically determined using EPA Reference method 24)

SECTION 13, DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulation 40 CFR 261. Dispose of in accordance with federal, state & local law. Consult your state, local or provincial authorities & your local waste vendor for more restrictive requirements.

SECTION 14, TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED IATA: NOT REGULATED

SECTION 15, REGULATORY INFORMATION

INVENTORY STATUS:

U.S. EPA TSCA: This product is in compliance with the Toxic Substance Control Act's

Inventory requirements.

If you need more information about the inventory status of this product, call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental protection Agency, the Bureau of Industry & Security or the Drug Enforcement Administration, among others.)

FEDERAL REPORTING: EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) & 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%	

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

SECTION 16, OTHER INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety & Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910, 1200).

Prepared by: Heng's Industries 04/04/2016

Phone: 574-295-1200

The information & recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Heng's Industries from its suppliers & because Heng's Industries has no control over the conditions of handling & use, Heng's Industries makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information & consideration & Heng's Industries assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Heng's Industries products to comply with all applicable federal, state & local laws & regulations.

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

303 Clear Vinyl Protective Cleaner

Synonyms

589535

Product Code

30214 30215

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

· Restores and maintains a like-new appearance, texture and color

Restrictions on use

Read and follow label directions, warnings and materials not to be treated

Details of the supplier of the safety data sheet

Manufacturer

Gold Eagle Co.

4400 S. Kildare Avenue Chicago, IL 60632-4372

United States

http://www.goldeagle.com/

Telephone (General) - 773-376-4400

Emergency telephone number

Manufacturer

1-800-535-5053 - (INFOTRAC #22283)

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Eve Irritation 2

Label elements
OSHA HCS 2012

WARNING



Hazard statements • Causes serious eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.

Wear eye/face protection , . Read label before use.

Do not eat, drink or smoke when using this product.

Response - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage/Disposal •

Store in a well-ventilated place. Keep container tightly closed.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

		Con	nposition	1
Chemical Name	ldentifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Water	CAS:7732-18- 5	75% TO 100%	Ingestion/Oral-Rat LD50 • >90 mL/kg	OSHA HCS 2012: Not Hazardous
Polydimethyl Siloxane	CAS:63148- 62-9	<= 1%	Ingestion/Oral-Rat LD50 • >17 g/kg Skin-Rabbit LD50 • >2 g/kg	OSHA HCS 2012: Eye Irrit. 2
Nonylphenol polyethylene glycol ether	CAS:127087- 87-0	<= 1%	NDA	OSHA HCS 2012: Not Classified
Glucitol	CAS:50-70-4	0% TO 1%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 1%	NDA	OSHA HCS 2012: Not Classified
Poly(oxy-1,2-ethanediyl),alpha-(2- propylheptyl)-omega hydroxy	CAS:160875- 66-1	< 1%	NDA	OSHA HCS 2012: Eye Dam. 1
Proprietary	Proprietary	< 1%	NDA	OSHA HCS 2012: Not Classified
Magnesium nitrate	CAS:10377- 60-3	< 0.235%	NDA	OSHA HCS 2012: Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.
Ethylene glycol	CAS:107-21-1	0% TO 0.22%	Ingestion/Oral-Rat LD50 • 470 mg/kg Skin-Rabbit LD50 • 9530 mg/kg	OSHA HCS 2012: Eye Irrit. 2; STOT SE 1 (Kidney, Orl); STOT RE 1 (Kidney, Orl)
Proprietary	Proprietary	0% TO 0.22%	Ingestion/Oral-Rat LD50 • 1540 mg/kg Inhalation-Rat LC50 • 36 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 794 µL/kg	OSHA HCS 2012: Repr. 2; Acute Tox. 4 (orl); Acute Tox. 3 (skn); Eye Irrit. 2
			Ingestion/Oral-Rat LD50 • 661 mg/kg	

Preparation Date: 08/September/2015 Revision Date: 08/September/2015

onal Precautions

Format GHS Language: English (US)
OSHA HCS 2012

Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled

material unless wearing appropriate protective clothing.

Emergency Procedures

 As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

L...ironmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

Measures

Stop leak if you can do it without risk.

SMAUL SPILLS: Take up with sand or other non-combustible absorbent material and

place into containers for later disposal.

LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

 Use only with adequate ventilation. Wear appropriate personal protective equipment. avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

Keep container closed. Store in a cool, dry, well-ventilated place. Avoid contact with heat and ignition sources. Do not store in unmarked containers or storage devices.

Section 8 - Exposure Controls/Personal Protection

Control parameters

<u> </u>	Exposure Limits/Guidelines		
	Result	ACGIH	OSHA
Proprietary	TWAs	Not established	200 ppm TWA; 360 mg/m3 TWA
(Proprietary)	Ceilings	25 ppm Ceiling	Not established
Ethylene glycol (107-21-1)	Ceilings	100 mg/m3 Ceiling (aerosol only)	Not established

Exposure controls

Engineering

Measures/Controls

 Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

Wear chemical splash safety goggles.

Skin/Body

Wear appropriate gloves.

Environmental Exposure Controls

Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

tion 9 - Physical and Chemical Properties

Preparation Date: 08/September/2015 Revision Date: 08/September/2015

Format: GHS Language; English (US) OSHA HCS 2012

Information on Physical and Chemical Properties

Material Description		<u> </u>	
al Form	Liquid	Appearance/Description	Water based white, opaque liquid.
	White	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	212 F(100 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	7 to 8
Specific Gravity/Relative Density	= 1.01 Water=1	Water Solubility	Soluble 100 %
Viscosity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)		
Volatility			
Vapor Pressure	17.5 mmHg (torr)	Vapor Density	0.62 Air=1
Evaporation Rate	< 1 n-Butyl Acetate = 1		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Close proximity to incompatible substances.

Incompatible materials

Alkalis, strong oxidizers.

Hazardous decomposition products

 If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxides gases (e.g., CO, CO2)

Section 11 - Toxicological Information

Information on toxicological effects

	Components
Proncietary i O Proprietary 6.22.0)	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1540 mg/kg; Behavioral:Tremor; Inhalation-Rat LC50 • 36 g/m³ 4 Hour (s); Behavioral:Excitement; Lungs, Thorax, or Respiration:Dyspnea; Skin and Appendages:Other:Hair; Skin-Rabbit LD50 • 794 µL/kg; Kidney, Ureter, and Bladder:Hematuria; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 700 ppm 6 Hour(s) 4 Week(s)-Intermittent; Liver:Changes in liver weight; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Cytochrome oxidases (including oxidative phosphorylation); Reproductive: Inhalation-Rat TCLo • 696 ppm (3D pre/3D preg); Reproductive Effects:Maternal

<u></u>		Effects:Oogenesis; Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetal death; Inhalation-Rat TCLo • 700 ppm (3D pre/3D preg); Reproductive Effects:Maternal Effects:Ovaries, fallopian tubes; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)
Polydimethyl Siloxane (<= 1%)	63148-62- 9	Acute Toxicity: Ingestion/Oral-Rat LD50 • >17 g/kg; <i>Kidney, Ureter, and Bladder</i> :Other changes; <i>Nutritional and Gross Metabolic:Changes in Chemistry or Temperature</i> :Other changes; Skin-Rabbit LD50 • >2 g/kg; <i>Behavioral</i> :Food intake (animal); <i>Gastrointestinal</i> :Hypermotility, diarrhea; <i>Skin and Appendages:After systemic exposure</i> :Dermatitis, other; Irritation: Eye-Rabbit • 100 µL 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 µL 24 Hour(s) • Mild irritation
Ethylene glycol (0% TO 0.22%)	107-21-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 470 mg/kg; Ingestion/Oral-Man TDL0 • 24 g/kg; Brain and Coverings:Other degenerative changes; Behavioral:Ataxia; Behavioral:Coma; Ingestion/Oral-Man TDL0 • 15 g/kg; Peripheral Nerve and Sensation:Sensory change involving peripheral nerve; Gastrointestinal:Ulceration or bleeding from small intestine; Kidney, Ureter, and Bladder:Renal function tests depressed; Ingestion/Oral-Man TDL0 • 1195 mg/kg; Peripheral Nerve and Sensation:Sensory change involving peripheral nerve; Kidney, Ureter, and Bladder:Renal function tests depressed; Ingestion/Oral-Rat TDL0 • 120 mg/kg; Blood:Changes in bone marrow not included above; Inhalation-Human TCL0 • 22 mg/m²; Kidney, Ureter, and Bladder:Proteinuria; Inhalation-Rat TCL0 • 0.004 g/m³ 2 Hour(s); Behavioral:Muscle contraction or spasticity; Lungs, Thorax, or Respiration:Respiratory stimulation; Gastrointestinal:Hypermotility, diarrhea; Skin-Rabbit LD50 • 9530 mg/kg; Irritation: Eye-Rabbit • 100 mg 1 Hour(s) • Mild irritation; Skin-Rabbit • 555 mg-Open • Mild irritation; Multi-dose Toxicity: Inhalation-Guinea Pig TCL0 • 0.003 g/m³ 45 Day(s)-Intermittent; Behavioral:Excitement; Liver.Liver function tests impaired; Inhalation-Rat TCL0 • 1 mg/m³ 32 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes; Liver.Liver function tests impaired; Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis); Inhalation-Rat TCL0 • 0.003 g/m² 228 Day(s)-Intermittent; Brain and Coverings:Other degenerative changes; Vascular:Structural changes in vessels; Lungs, Thorax, or Respiration:Emphysema; Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis); Blood:Changes in spleen; Mutagen: Cytogenetic analysis • Ingestion/Oral-Rat • 1200 mg/kg; Reproductive Effects:Maternal Effects:Other effects: Reproductive Effects: Effects on Fertility:Pre-implantation mortality; Inhalation-Rouse TCL0 • 2100 mg/m³ 6 Hour(s)(6-15D preg); Reproductive Effects:Effects on Fertil
Nonylphenol polyethylene glycol ether (<= 1%)	127087-87- 0	Reproductive: Ingestion/Oral-Rat TDLo • 2500 mg/kg (6-15D preg); Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system
Glucitol (0% TO 1%)	50-70-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 15900 mg/kg; Ingestion/Oral-Woman TDLo • 1700 mg/kg 1 Day(s); Gastrointestinal:Hypermotility, diarrhea

GHS Properties	Classification	
Respiratory sensitization	OSHA HCS 2012 • No data available	
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2	
Acute toxicity	OSHA HCS 2012 • No data available	
Aspiration Hazard	OSHA HCS 2012 • No data available	
Carcinogenicity	OSHA HCS 2012 • No data available	
orrosion/Irritation	OSHA HCS 2012 • No data available	
Skin sensitization	OSHA HCS 2012 • No data available	

Eve

Acute (Immediate) Chronic (Delayed)

Causes serious eye irritation.

No data available.

Indestion

Acute (Immediate)

May cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

Chronic (Delayed)

No data available.

Carcinogenic Effects

This product does not contain any components above de minimus concentrations that are considered carcinogenic by OSHA, IARC or NTP.

		Carcinogenic Effe	ects
	CAS	IARC	NTP
Proprietary	Proprietary	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen

abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

· Non-mandatory section - information about this substance not complied for this reason.

Persistence and degradability

· Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

 Non-mandatory section - information about this substance not complied for this reason.

r adverse effects

 Non-mandatory section - information about this substance not complied for this reason.

Preparation Date: 08/September/2015 Revision Date: 08/September/2015

Format: GHS Language: English (US) OSHA HCS 2012

Section 13 - Disposal Considerations

te treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

· Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NĎA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications . Acute

		Inventory	
mponent	CAS	TSCA	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
Ethylene glycol	107-21-1	Yes	-
Glucitol	50-70-4	Yes	
Magnesium nitrate	10377-60-3	Yes	
Nonylphenol polyethylene glycol ether	127087-87-0	Yes	
Proprietary	Proprietary	Yes	
Poly(oxy-1,2- ethanediyl),alpha- (2-propylheptyl)- omega hydroxy	160875-66-1	Yes	
Polydimethyl Siloxane	63148-62-9	Yes	
Water	7732-18-5	Yes	

United States

Labor U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals lagnesium nitrate 10377-60-3 Not Listed اساندال 50-70-4 Not Listed Polydimethyl Siloxane 63148-62-9 Not Listed

*				
Proprietary		Proprietary	Not	Listed
Proprietary		Proprietary	•	Ib TQ
Ethylene glycol		107-21-1		Listed
Proprietary		Proprietary		Listed
• Water		7732-18-5		Listed
 Nonylphenol polyethylene glycol ether 		127087-87-0		Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylhep 	tyl)-omega hydroxy	160875-66-1		Listed
U.S OSHA - Specifically Regulated Chem	icals			
Magnesium nitrate		10377-60-3	Not I	isted
• Glucitol		50-70-4	Not I	isted
Polydimethyl Siloxane		63148-62-9	Not	isted
• Proprietary		Proprietary	Not i	Listed
• Proprietary		Proprietary	Not !	isted
Ethylene glycol		107-21-1	Not	isted
Proprietary		Proprietary	Not	_isted
• Water		7732-18-5	Not	_isted
Nonylphenol polyethylene glycol ether		127087-87-0	Not	_isted
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylhep 	tyl)-omega hydroxy	160875-66-1	Not	_isted
Environment —				
U.S CAA (Clean Air Act) - 1990 Hazardou	s Air Pollutants]	;
Magnesium nitrate		10377-60-3	Not	₋isted
• Glucitol		50-70-4	Not L	isted
Polydimethyl Siloxane		63148-62-9	Not L	isted
Proprietary		Proprietary	Not	isted
- Proprietary		Proprietary	ĺ	
thylene glycol		107-21-1		
Proprietary		Proprietary	Not L	isted
• Water		7732-18-5	Not L	isted
Nonylphenol polyethylene glycol ether		127087-87-0	Not L	isted
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylhept 	yl)-omega hydroxy	160875-66-1	Not L	isted
IIS CAA (Class Air Asa) Assis Asa			ĺ	
U.S CAA (Clean Air Act) - Accidental Reli • Magnesium nitrate	ease Prevention - Flammable Substances		-	
Glucitol		10377-60-3	Not L	
Polydimethyl Siloxane		50-70-4	Not L	
• Proprietary		63148-62-9	Not L	
• Proprietary		Proprietary	Not L	
Ethylene glycol		Proprietary		0 lb threshold quantity
• Proprietary		107-21-1	Not L	
• Water		Proprietary	Not L	
Nonylphenol polyethylene glycol ether		7732-18-5	Not	i
Poly(oxy-1,2-ethanediyl),alpha-(2-propylhepty)	W omen budge	127087-87-0	NotL	
· ory(oxy-1,2-cmanedry),alpha-(2-propymept	yr)-omega nydroxy	160875-66-1	Not	isted
U.S CÁA (Clean Air Act) - Accidental Rele	Pasa Prevention - Toxic Substances			
Magnesium nitrate	- TOTO HOLD - TOAIC GUDSIANCES	10377-60-3	Not L	istad
Glucital		50-70-4	Not L	
Polydimethyl Siloxane		63148-62-9	Not L	
Proprietary		Proprietary	Not L	· ·
Proprietary		Proprietary	Not L	
(thylene glycol		107-21-1	Not L	
→ roprietary		Proprietary	Not L	1
		Liobustary	NOUL	ior <u>c</u> n

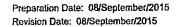
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed
S CEDCLA/CADA IIII D. I. I.		
S CERCLA/SARA - Hazardous Substances and their Reportable Quantities • Magnesium nitrate	10077 0010	 .J
Glucitol	10377-60-3	Not Listed
Polydimethyl Siloxane	50-70-4	Not Listed
• Proprietary	63148-62-9	Not Listed
	Proprietary	Not Listed
• Proprietary	Proprietary	1000 lb final RQ; 454 kg final RQ
• Ethylene glycol	407.04.4	5000 lb final RQ; 2270 kg final
Ethylene glycol	107-21-1	RQ
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy 	160875-66-1	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
oly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Magnesium nitrate	10377-60-3	Nathiatad
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
Proprietary	-	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	Proprietary 107-21-1	Not Listed
• Proprietary		Not Listed
• Water	Proprietary 7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	1732-16-5 127087-87 - 0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy		Not Listed
y terry - y = - union early y approximately y officing flydroxy	160875-66-1	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		İ
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	•	0.1 % de minimis
1 Tophiqual y	Proprietary	concentration
• Ethylene glycol	107 04 4	1.0 % de minimis
	107-21-1	concentration
• Proprietary	Proprietary	Not Listed
Vater	7732-18-5	Not Listed
ionylphenol polyethylene glycol ether	127087-87-0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed

·		
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Magnesium nitrate	10377-60-3	Not Listed
Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy 	160875-66-1	Not Listed
U.S CWA (Clean Water Act) - Hazardous Substances		li.
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Ì
Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed
U.S CWA (Clean Water Act) - Toxic Pollutants		
Magnesium nitrate	10377-60-3	Not Listed
3lucitol Superior Sup	50-70-4	Not Listed
olydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed

United States - California

Environment — — — — — — — — — — — — — — — — — — —		
U.S California - Proposition 65 - Carcinogens List		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	carcinogen, initial date 4/1/88
Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylhebtyl)-omega hydroxy 	160875-66-1	Not Listed
j California - Proposition 65 - Developmental Toxicity		
• Magnesium nitrate	10377-60-3	Not Listed

• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
Proprietary	Proprietary	Not Listed
roprietary	Proprietary	Not Listed
* Éthylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy 	160875-66-1	Not Listed
All District (MADI)		
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	10377-60-3	Not Listed
Magnesium nitrate	50-70-4	Not Listed
• Glucitol	63148-62-9	Not Listed
Polydimethyl Siloxane	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	107-21-1	Not Listed
Ethylene glycol		Not Listed
Proprietary	Proprietary 7732-18-5	Not Listed
Water	127087-87-0	Not Listed Not Listed
Nonylphenol polyethylene glycol ether		Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	NULLISIEU
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	90 µg/day NSRL (inhalation)
Ethylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	NotListed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87 - 0	Not Listed
 Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy 	160875-66 -1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50 -70 -4	Not Listed
Polydimethyl Siloxane	63148-62-9	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male	10377-60-3	 Not Listed
Magnesium nitrate	50-70-4	Not Listed
• Glucitol	63148-62-9	Not Listed
Polydimethyl Siloxane	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary Standard chiral	107-21-1	Not Listed
Ethylene glycol	Proprietary	Not Listed
• Proprietary		
		1 = 4:00001



Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

303 Aerospace Protectant

Synonyms

587940

Product Code

1801; 80302; 30303; 30304; 30305; 30306; 30306CSR; 30307; 30307CSR; 30308; 30308CSR; 30313; 30313CSR; 30320; 30321; 30322; 30323; 30340; 30340CSR; 30350; 30370; 30375; 30377; 30377CSR; 30378; 30378CSR; 30379; 30381; 30382;

30382CSR; 30383; 30440; 30440BD; 30910

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Restores and maintains a like-new appearance, texture and color

Restrictions on use

Read and follow label directions, warnings and materials not to be treated

Details of the supplier of the safety data sheet

Manufacturer

Gold Eagle Co.

4400 S. Kildare Avenue Chicago, IL 60632-4372

United States

http://www.goldeagle.com/

Telephone (General) • 773-376-4400

rgency telephone number

Manufacturer

1-800-535-5053 - (INFOTRAC #22283)

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Eye Irritation 2

Label elements OSHA HCS 2012

WARNING



Hazard statements . Causes serious eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.

Wear eye/face protection,.

Response • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

Preparation Date: 10/June/2015 Revision Date: 02/December/2015 Format: GHS Language: English (US) OSHA HCS 2012 Other hazards
HA HCS 2012

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

· Material does not meet the criteria of a substance.

Mixtures

			Composition	
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Water	CAS:7732-18- 5	75% TO 100%	Ingestion/Oral-Rat LD50 • >90 mL/kg	OSHA HCS 2012: Not Hazardous
Proprietary	Proprietary	0% TO 15.4%	Ingestion/Oral-Rat LD50 • >17 g/kg Skin-Rabbit LD50 • >2 g/kg	OSHA HCS 2012: Eye Irrit. 2
Proprietary	Proprietary	.0% TO 1.1%	NDA	OSHA HCS 2012: Eye Dam. 1
pitol	CAS:50-70-4	0% TO 1%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 1%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 1%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	< 1%	NDA	OSHA HCS 2012: Not Classified
Magnesium nitrate	CAS:10377- 60-3	< 0.235%	NDA	OSHA HCS 2012: Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.
Ethylene glycol	CAS:107-21-1	0% TO 0.22%	Ingestion/Oral-Rat LD50 • 470 mg/kg Skin-Rabbit LD50 • 9530 mg/kg	OSHA HCS 2012: Eye Irrit. 2; STOT SE 1 (Kidney, Orl); STOT RE 1 (Kidney, Orl)
Proprietary	Proprietary	0% TO 0.22%	Ingestion/Oral-Rat LD50 • 1540 mg/kg Inhalation-Rat LC50 • 36 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 794 µL/kg	OSHA HCS 2012: Repr. 2; Acute Tox. 4 (orl); Acute Tox. 3 (skn); Eye Irrit. 2
Proprietary	Proprietary	0% TO 0.022%	Ingestion/Oral-Rat LD50 • 661 mg/kg Inhalation-Rat LC50 • 13300 ppm 4 Hour(s) Skin-Rabbit LD50 • 3540 mg/kg	OSHA HCS 2012: Exposure limits

Section 4: First-Aid Measures

Description of first aid measures

lation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

Do NOT induce vomiting. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

No data available.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

Poses no unusual fire or explosion hazard.

Hazardous Combustion Products

No data available.

Advice for firefighters

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the

manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA).

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

 Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

 As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

Stop leak if you can do it without risk. SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal. LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Preparation Date: 10/June/2015 Revision Date: 02/December/2015 Format: GHS Language: English (US) OSHA HCS 2012

Precautions for safe handling

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 Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

 Keep container closed. Store in a cool, dry, well-ventilated place. Avoid contact with heat and ignition sources. Do not store in unmarked containers or storage devices.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines					
	Result	ACGIH	OSHA		
Proprietary (Proprietary)	TWAs	Not established	200 ppm TWA; 360 mg/m3 TWA		
	Ceilings	25 ppm Ceiling	Not established		
Ethylene glycol (107-21-1)	Cellings	100 mg/m3 Ceiling (aerosol only)	Not established		

Exposure controls

Engineering Measures/Controls Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

元 spiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

e/Face

Wear chemical splash safety goggles.

Skin/Body

Wear appropriate gloves.

Environmental Exposure Controls

Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8ħ/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Water based white, opaque liquid.
Color	White	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	212 F(100 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	рН	7 to 8
Specific Gravity/Relative Density	= 1.01 Water=1	Water Solubility	Soluble 100 %
sity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)		
Volatility			

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OSHA HCS 2012

Vapor Pressure	17.5 mmHg (torr)	Vapor Density	0.62 Air=1
Evaporation Rate	< 1 n-Butyl Acetate = 1		
F'mability			
F Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

· No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

Close proximity to incompatible substances.

Incompatible materials

Alkalis, strong oxidizers.

Hazardous decomposition products

If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxides gases (e.g., CO, CO2)

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Proprietary (0% TO 0.22%)	.Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1540 mg/kg; Behavioral:Tremor; Inhalation-Rat LC50 • 36 g/m³ 4 Hour(s); Behavioral:Excitement; Lungs, Thorax, or Respiration:Dyspnea; Skin and Appendages: Other.Hair; Skin-Rabbit LD50 • 794 µL/kg; Kidney, Ureter, and Bladder.Hematuria; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 700 ppm 6 Hour(s) 4 Week(s)-Intermittent; Liver:Changes in liver weight; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Cytochrome oxidases (including oxidative phosphorylation); Reproductive: Inhalation-Rat TCLo • 696 ppm (3D pre/3D preg); Reproductive Effects:Maternal Effects:Oogenesis; Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Maternal Effects:Ovaries, fallopian tubes; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)
Proprietary (0% TO 15.4%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 •>17 g/kg; Kidney, Ureter, and Bladder:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Other changes; Skin-Rabbit LD50 •>2 g/kg; Behavioral:Food intake (animal); Gastrointestinal:Hypermotility, diarrhea; Skin and Appendages:After systemic exposure:Dermatitis, other; Irritation: Eye-Rabbit • 100 µL 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 µL 24 Hour(s) • Mild irritation
, k ,		Acute Toxicity: Ingestion/Oral-Rat LD50 • 470 mg/kg; Ingestion/Oral-Man TDLo • 24 g/kg; Brain and Coverings:Other degenerative changes; Behavioral:Ataxia; Behavioral:Coma; Ingestion/Oral-Man TDLo • 15 g/kg; Peripheral Nerve

Ethylene glycoi (0% TO 0.22%)		and Sensation:Sensory change involving peripheral nerve; Gastrointestinal:Ulceration or bleeding from small intestine; Kidney, Ureter, and Bladder:Renal function tests depressed; Ingestion/Oral-Man TDLo • 1195 mg/kg; Peripheral Nerve and Sensation:Sensory change involving peripheral nerve; Kidney, Ureter, and Bladder:Renal function tests depressed; Ingestion/Oral-Rat TDLo • 120 mg/kg; Blood:Changes in bone marrow not included above; Inhalation-Human TCLo • 22 mg/m³; Kidney, Ureter, and Bladder:Proteinuria; Inhalation-Rat TCLo • 0.004 g/m³ 2 Hour(s); Behavioral:Muscle contraction or spasticity; Lungs, Thorax, or Respiration:Respiratory stimulation; Gastrointestinal:Hypermotility, diarrhea; Skin-Rabbit LD50 • 9530 mg/kg; Irritation: Eye-Rabbit 100 mg 1 Hour(s) • Mild irritation; Skin-Rabbit • 555 mg-Open • Mild irritation; Multi-dose Toxicity: Inhalation-Guinea Pig TCLo • 0.003 g/m³ 45 Day(s)-Intermittent; Behavioral:Excitement; Liver:Liver function tests impaired; Inhalation-Rat TCLo • 1 mg/m³ 32 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes; Liver:Liver function tests impaired; Kidney, Ureter, and Bladder:Changes in tubules (Including acute renal failure, acute tubular necrosis); Inhalation-Rat TCLo • 0.003 g/m³ 228 Day(s)-Intermittent; Brain and Coverings:Other degenerative changes; Vascular:Structural changes in vessels; Lungs, Thorax, or Respiration:Emphysema; Inhalation-Rat TCLo • 0.02 g/m³ 153 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Emphysema; Inhalation-Rat TCLo • 0.02 g/m³ 153 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Emphysema; Inhalation-Rat TCLo • 0.02 g/m³ 153 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Emphysema; Inhalation-Rat TCLo • 0.00 mg/m³ 6 Hour(s)(6-15D preg); Reproductive Effects:Maternal Effects:Uterus, cervix, vagina; Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Inhalation-Mouse TCLo • 2100 mg/m³ 6 Hour(s)(6-15D preg); Reproductive Effects:Effects on Fertility:Pre-i
Proprietary (0% TO 1%)	Proprietary	Reproductive: Ingestion/Oral-Rat TDLo • 2500 mg/kg (6-15D preg); Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system
Glucitol (0%	50 - 70-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 15900 mg/kg; Ingestion/Oral-Woman TDLo • 1700 mg/kg 1 Day(s); Gastrointestinal:Hypermotility, diarrhea

GHS Properties	Classification	
Respiratory sensitization	OSHA HCS 2012 • No data available	
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2	
Acute toxicity	OSHA HCS 2012 • No data available	
Aspiration Hazard	OSHA HCS 2012 • No data available	
Carcinogenicity	OSHA HCS 2012 • No data available	
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available	
Skin corrosion/Irritation	OSHA HCS 2012 • No data available	
Skin sensitization	OSHA HCS 2012 • No data available	
STOT-RE	OSHA HCS 2012 • No data available	
STOT-SE	OSHA HCS 2012 • No data available	
Toxicity for Reproduction	OSHA HCS 2012 • No data available	

Potential Health Effects Inhalation

Acute (Immediate)

- · No adverse health effects expected.
- ົ າronic (Delayed)
- · No data available.

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Section 14 - Transport Information

Preparation Date: 10/June/2015 Revision Date: 02/December/2015 Format: GHS Language: English (US) OSHA HCS 2012

	UN number	UN proper shipping nar	ne Transpoi	rt hazard class(es)	Packing group	Env	ronmental hazards
Į:	NDA	Not Regulated		NDA	NDA		NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Acute

_		Inventory	
Component	CAS	TSCA	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
Ethylene glycol	107-21-1	Yes	
Glucitol	50-70-4	Yes	
Magnesium nitrate	10377-60-3	Yes	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
etary	Proprietary	Yes	
Water	7732-18-5	Yes	

United States

Labor			
U.S OSHA - Process Safety Manage	ment - Highly Hazardous Chemicals		
Magnesium nitrate		10377-60-3	Not Listed
Glucitol		50-70-4	Not Listed
Proprietary		Proprietary	Not Listed
Proprietary		Proprietary	Not Listed
Proprietary		Proprietary	2500 lb TQ
Ethylene glycol		107-21-1	Not Listed
Proprietary		Proprietary	Not Listed
Water		7732-18-5	Not Listed
Proprietary		Proprietary	Not Listed
Proprietary		Proprietary	Not Listed
U.S OSHA - Specifically Regulated C	hemicals		
Magnesium nitrate		10377-60-3	Not Listed
Glucitol		50-70-4	. Not Listed
Proprietary		Proprietary	Not Listed
Proprietary		Proprietary	Not Listed
Proprietary		Proprietary	Not Listed
Ethylene glycol		107-21-1	Not Listed
Proprietary		Proprietary	Not Listed
• Water		7732-18-5	Not Listed

Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
ironment		
.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Magnesium nitrate	10377-60-3	Not Listed
Glucitol	50-70-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary -	Proprietary	Not Listed
Proprietary	Proprietary	
Ethylene glycol	107-21-1	
Proprietary	Proprietary	Not Listed
Water	7732-18-5	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
I.S CAA (Clean Air Act) - Accidental Release Prevention - Flamma		
Magnesium nitrate	10377-60-3	Not Listed
Glucitol	50-70-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	10000 lb threshold quantity
Ethylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	Not Listed
Water	7732-18-5	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
5.S CAA (Clean Air Act) - Accidental Release Prevention - Toxic S	uhstances	,
• Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
Proprietary	Proprietary	Not Listed
	Proprietary	Not Listed
Proprietary Proprietary	Proprietary	Not Listed
	107-21-1	Not Listed
• Ethylene glycol	Proprietary	Not Listed
• Proprietary	7732-18-5	Not Listed
• Water	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	riophiciary	Hot Elotod
U.S CERCLA/SARA - Hazardous Substances and their Reportable	Quantities 10377-60-3	Not Listed
Magnesium nitrate	50 - 70-4	Not Listed
• Glucitol	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed Not Listed
• Proprietary	, -	1000 lb final RQ; 454 kg final
• Proprietary	Proprietary	RQ
Ethylene glycol	107-21-1	5000 lb final RQ; 2270 kg fil RQ
Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
. Proprietary	Proprietary	Not Listed
		1

U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Magnesium nitrate	10377-60-3	Not linta-l
• Glucitol	50-70-4	Not Listed
· Proprietary	Proprietary	Not Listed
· Proprietary	Proprietary	Not Listed Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18 - 5	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
• Proprietary	Proprietary	1
Proprietary	Proprietary	Not Listed
• Proprietary	•	Not Listed
Ethylene glycol	Proprietary 107-21-1	Not Listed
Proprietary		Not Listed
• Water	Proprietary	Not Listed
• Proprietary	7732-18-5	Not Listed
• Proprietary	Proprietary Proprietary	Not Listed
II.S. CEPOLAGADA A	riopnetary	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Magnesium nitrate Glucitol	10377-60-3	Not Listed
	50-70-4	Not Listed
- Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	0.1 % de minimis concentration
Ethylene glycol	107-21-1	1.0 % de minimis
• Proprietary	Droneiotom:	concentration
• Water	Proprietary	Not Listed
• Proprietary	7732-18-5	Not Listed
• Proprietary	Proprietary Proprietary	Not Listed Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Magnesium nitrate	10277 60 0	Maddi
Glucitol	10377-60-3	Not Listed
Proprietary	50-70-4	Not Listed
• Proprietary	Proprietary Proprietary	Not Listed
• Proprietary	Proprietary Proprietary	Not Listed
Ethylene glycol	Proprietary	Not Listed
• Proprietary	107-21-1	Not Listed
• Water	Proprietary	Not Listed
• Proprietary	7732-18-5	Not Listed
• Proprietary	Proprietary	Not Listed
	Proprietary	Not Listed
U.S CWA (Clean Water Act) - Hazardous Substances • Magnesium nitrate		
Slucitol	10377-60-3	Not Listed
³ roprietary	50-70-4	Not Listed
rophically	Proprietary	Not Listed

• Proprietary	Proprietary	Not Listed	
Proprietary	Proprietary		
Ethylene glycol	107-21 - 1	Not Listed	
· Proprietary	Proprietary	Not Listed	
Water	7732-18-5	Not Listed	
Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	
U.S CWA (Clean Water Act) - Toxic Pollu	ranta		
Magnesium nitrate			
-	10377-60-3	Not Listed	
Glucitol	50-70-4	Not Listed	
Proprietary	Proprietary	Not Listed	
Proprietary	Proprietary	Not Listed	
Proprietary	Proprietary	Not Listed	
Ethylene glycol	107-21-1	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Water	7732-18-5	Not Listed	
Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	

United States - California

u.S California - Proposition 65 - Carcinogens List		
Magnesium nitrate	10377-60-3	 Not Listed
• Glucital	50-70-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	carcinogen, initial date 4/1/8
• Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Magnesium nitrate	10377-60-3	Not Listed
Glucitol	50-70-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Magnesium nitrate	10377-60-3	Not Listed
• Glucitol	50-70-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed

Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
 Proprietary 	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
IIS California Proposition SS No Stan	Figure Pick Lands (1971)	
U.S California - Proposition 65 - No Sigr • Magnesium nitrate	1	,,,,j,,,,
Glucitol	10377-60-3	Not Listed
Proprietary	50-70-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Ethylene glycol	Proprietary	90 μg/day NSRL (inhalation)
• Proprietary	107-21-1	Not Listed
• Water	Proprietary	Not Listed
• Proprietary	7732-18-5	Not Listed
• Proprietary	Proprietary	Not Listed
Tropnotary	Proprietary	Not Listed
U.S California - Proposition 65 - Reprod	uctive Toxicity - Female	
Magnesium nitrate	10377-60-3	Not Listed
Glucitol	50-70-4	Not Listed
 Proprietary 	Proprietary	Not Listed
 Proprietary 	Proprietary	Not Listed
 Proprietary 	Proprietary	Not Listed
Ethylene glycol	107-21-1	Not Listed
Proprietary	Proprietary	Not Listed
Water	7732-18-5	Not Listed
 Proprietary 	Proprietary	Not Listed
, Proprietary	Proprietary	Not Listed
U.S. Colifornia Dranovition C5. Domest		
U.S California - Proposition 65 - Reprod		
Magnesium nitrate Glucitol	10377-60-3	Not Listed
	50-70-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Water	7732-18-5	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

Other Information

 WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date

02/December/2015

Preparation Date

• 10/June/2015

O**--- Information

Di imer/Statement of Liability

Schedule B Number: 3405.90.0000.

 Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing

Preparation Date: 10/June/2015 Revision Date: 02/December/2015 Format: GHS Language: English (US)
OSHA HCS 2012

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

303 Multisurface Cleaner

Synonyms

588054

Product Code

30202; 30204; 30207; 30207CSR; 30208; 30445; 30445BD; 30501; 30554; 30555;

30570

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

· Multisurface cleaner used on water safe fabrics, vinyl, carpet and hard surfaces

Restrictions on use

· Read and follow label directions and use warnings

Details of the supplier of the safety data sheet

Manufacturer

Gold Eagle Co.

4400 S. Kildare Avenue Chicago, IL 60632-4372

United States

http://www.goldeagle.com/

Telephone (General) • 773-376-4400

Emergency telephone number

Masufacturer

• 1-800-535-5053 - (INFOTRAC #22283)

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

 Skin Irritation 2 Skin Sensitization 1

Eye Irritation 2

Label elements **OSHA HCS 2012**

WARNING



Hazard statements .

Causes skin irritation

May cause an allergic skin reaction

Causes serious eve irritation

cautionary statements

Prevention . Avoid breathing mists, vapours, and/or spray.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response •

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash before reuse.

Specific treatment, see supplemental first aid information.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage/Disposal . Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards

OSHA HCS 2012

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Composition						
હ્ ુical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive		
Etnoxylated fatty alcohols	NDA	0% TO 2%	NDA	OSHA HCS 2012: Eye Dam. 1		
Alkoxylated alcohols	NDA	0% TO 1%	NDA	OSHA HCS 2012: Skin Irrit. 2		
Preservative	NDA	< 1%	NDA	OSHA HCS 2012: Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1		

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

Eye

 In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

• Do NOT induce vomiting. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

All treatments should be based on observed signs and symptoms of distress in the
patient. Consideration should be given to the possibility that overexposure to materials
other than this product may have occurred.

Preparation Date: 10/June/2015 Revision Date: 14/September/2015

Section 5: Fire-Fighting Measures

nguishing media

سيتك ble Extinguishing Media • LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

No data available.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Poses no unusual fire or explosion hazard.

Hazardous Combustion Products

No data available.

Advice for firefighters

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the

manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA). LARGE FIRES: Cool containers with flooding quantities of water until well after fire is

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

· Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

Measures

 Stop leak if you can do it without risk. SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal. LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

 Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

 Keep container closed. Store in a cool, dry, well-ventilated place. Do not store in unmarked containers or storage devices.

tion 8 - Exposure Controls/Personal Protection

Preparation Date: 10/June/2015 Revision Date: 14/September/2015

Control parameters

		Expo	sure Limits/Guidelines	
	Result	ACGIH	NIOSH	OSHA
	STELs	Not established	Not established	5 ppm STEL (see 29 CFR 1910.1047)
Proprietary (Proprietary)	TWAs	1 ppm TWA	0.1 ppm TWA (less than stated value); 0.18 mg/m3 TWA (less than stated value)	1 ppm TWA
	Ceilings	Not established	5 ppm Ceiling (10 min/day); 9 mg/m3 Ceiling (10 min/day)	Not established
Proprietary	STELs	Not established	Not established	2 ppm STEL (see 29 CFR 1910.1048)
(Proprietary)	TWAs	Not established	0.016 ppm TWA	0.75 ppm TWA
<u> </u>	Ceilings	0.3 ppm Ceiling	0.1 ppm Ceiling (15 min)	Not established
Proprietary	TWAs	20 ppm TWA	Not established	100 ppm TWA; 360 mg/m3 TWA
(Proprietary)	Ceilings	Not established	1 ppm Ceiling (30 min); 3.6 mg/m3 Ceiling (30 min)	Not established
Proprietary	TWAs	Not established	Not established	200 ppm TWA; 360 mg/m3 TWA
(Proprietary)	Ceilings	25 ppm Ceiling	Not established	Not established

Exposure controls

Engineering Measures/Controls

 Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

spiratory

e/Face

Skin/Body

Environmental Exposure Controls

t

In case of insufficient ventilation, wear suitable respiratory equipment.

Wear chemical splash safety goggles.

Wear appropriate gloves.

Controls should be engineered to prevent release to the environment, including
procedures to prevent spills, atmospheric release and release to waterways. Follow
best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Slightly hazy water based cleaner with a surfactant odor.
Color	No data available	Odor	Surfactant
Odor Threshold	No data available		
General Properties			
Boiling Point	212 F(100 C)	Melting Point/Freezing Point	> 32 F(> 0 C)
position Temperature	No data available	pH	7 to 8
c Gravity/Relative Density	= 1.01 Water=1	Water Solubility	Soluble 100 %

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Viscosity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)]	
Volatility		<u> </u>	•
Pressure	17.5 mmHg (torr)	Vapor Density	< 1 Air=1
ration Rate	No data available		
Flammability		·	
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental		<u> </u>	
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

· Stable under normal temperatures and pressures.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

· Close proximity to incompatible substances.

Incompatible materials

· Alkalis, strong oxidizers.

Hazardous decomposition products

 If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxides gases (e.g., CO, CO2)

Section 11 - Toxicological Information

Information on toxicological effects

GHS Properties	Classification	
Respiratory sensitization	OSHA HCS 2012 • No data available	
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2	
Acute toxicity	OSHA HCS 2012 • No data available	
Aspiration Hazard	OSHA HCS 2012 • No data available	
Carcinogenicity	OSHA HCS 2012 • No data available	
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2	
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1	
STOT-RE	OSHA HCS 2012 • No data available	
S SE	OSHA HCS 2012 • No data available	
Toxicity for Reproduction	OSHA HCS 2012 • No data available	

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Germ Cell Mutagenicity

OSHA HCS 2012 • No data available

Potential Health Effects

lation

Acute (Immediate)

No adverse health effects expected.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

Chronic (Delayed)

No data available.

Eye

Acute (Immediate)

· Causes serious eye irritation.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)
Chronic (Delayed)

May cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

No data available.

Carcinogenic Effects

 This product does not contain any components above de minimus concentrations that are considered carcinogenic by OSHA, IARC or NTP.

			<u> </u>	
		Carcino	genic Effects	
	CAS	OSHA	IARC	NTP
Proprietary	Proprietary	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
Proprietary	Proprietary	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
F Itary	Proprietary	Not Listed	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen
Proprietary	Proprietary	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Section 12 - Ecological Information

Toxicity

Non-mandatory section - information about this substance not complied for this reason.

Persistence and degradability

Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

Non-mandatory section - information about this substance not complied for this reason.

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Section 13 - Disposal Considerations

te treatment methods

l∱. _ ⊴uct waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping na	me	Transport hazard class(es)	Packing group	Env	ironmental hazards
рот	NDA	Not Regulated		NDA	NDA		NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Acute

		Inventory	
^ mponent	CAS	TSCA	
l ∋tary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	
Proprietary	Proprietary	Yes	

United States

Labor		
U.S OSHA - Process Safety Managem	ent - Highly Hazardous Chemicals	
 Proprietary 	Proprietary	5000 lb TQ
 Proprietary 	Proprietary	Not Listed
 Proprietary 	Proprietary	1000 b TQ
• Proprietary	Proprietary	2500 lb TQ
U.S OSHA - Specifically Regulated Ch	emicals	
		5 ppm Excursion Limit (See 29
5 44		CFR 1910.1047, 15 min); 0.5
 Proprietary 	Proprietary	ppm Action Level (See 29 CFR
		1910.1047); 1 ppm TWA (See
Drandaton		29 OFR 1910.1047)
 Proprietary 	Proprietary	Not Listed
		2 ppm STEL (See 29 CFR
Proprietary	Proprietore	1910.1048, 15 min); 0.5 ppm
- Frophetary	Proprietary	Action Level (See 29 CFR
		1910.1048); 0.75 ppm TWA (See 29 CFR 1910.1048)
Proprietary	Proprietary	Not Listed
- roprotory	Proprietary	INOULLISIEU

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CAA (Clean Air Act) - 1990 Hazardous Air Poliutants Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary U.S CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances Proprietary Prop				
Proprietary Propri	Environment ————————			
Proprietary Propri	ᠵ 🗥 S CAA (Clean Air Act) - 1990 Hazard	ous Air Pollutants		
Proprietary Propri	Proprietary	Proprie	atary]
U.S CAA (Clean Air Act) - Accidental Re ease Prevention - Flammable Substances - Proprietary Propri	Proprietary	Proprie	etary	
U.S CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances - Proprietary Propri	 Proprietary 	Proprie	tary	}
Proprietary Propri	 Proprietary 	1	•	
Proprietary Propri	U.S CAA (Clean Air Act) - Accidental F	Release Prevention - Flammable Substances		
Proprietary Propri		1	etary Not L	isted
Proprietary Propri	Proprietary	1	•	isted
U.S CAA (Clean Air Act) - Accidental Release Prevention - Toxic Substances - Proprietary - Propri	• Proprietary	The state of the s	. •	isted
Proprietary Propri	Proprietary	·	-	
Proprietary Propri	U.S CAA (Clean Air Act) - Accidental F	Release Prevention - Toxic Substances		
• Proprietary •			etary 1000	0 lb threshold quantity
Proprietary Propri	Proprietary	Proprie		
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities - Proprietary - Proprietar	Proprietary		1500	0 lb threshold quantity
Proprietary Proprietary	 Proprietary 	Proprie	·	
Proprietary Propri	U.S CERCLA/SARA - Hazardous Subst	ances and their Reportable Quantities		
Proprietary Propri				final RQ; 4.54 kg final RQ
Proprietary U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs - Proprietary	Proprietary	Proprie		b final RQ; 45.4 kg final
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs - Proprietary - Proprieta	Proprietary	Proprie	1247 V 3541	o final RQ; 45.4 kg final
Proprietary Proprietary	Proprietary	Proprie		lb final RQ; 454 kg final
Proprietary Proprietary	U.S CERCLA/SARA - Section 302 Extre	nely Hazardous Substances EPCRA RQs	1	
 Proprietary Proprietary Proprietary Proprietary U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary P			tary 10 lb	EPCRA RQ
• Proprietary U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs • Proprietary	• Proprietäry	Proprie	tary Not L	isted
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs • Proprietary	 Proprietary 	Proprie	tary 100 k	EPCRA RQ
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 Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary U.S CERCLA/SARA - Section 313 - Emission Reporting Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary O.1 % de minimis concentration O.1 % de minimis concentration O.1 % de minimis concentration O.1 % de minimis concentration 	U.S CERCLA/SARA - Section 302 Extre	 nely Hazardous Substances TPQs		
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U.S CERCLA/SARA - Section 313 - Emission Reporting Proprietary	•	Proprie	tary 500 lt	TPQ
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• Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary • Proprietary	Proprietary	Proprie	ranı	
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• Proprietary Proprietary 0.1 % de minimis concentration	• Proprietary	Proprie	tany 0.1 %	de minimis
	Proprietary	Proprie	tary 0.1 %	de minimis
3 CERCLA/SARA - Section 313 - PBT Chemical Listing	** 3 CERCLA/SARA - Section 313 - PRT	Chemical Listing		
Proprietary Not Listed		_	tary Noti	sted
• Proprietary Not Listed		•	-	

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S CWA (Clean Water Act) - Hazardous Substances Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary
U.S CWA (Clean Water Act) - Toxic Pollutants
Proprietary Proprietary Not Listed
Proprietary Not Listed
Proprietary Not Listed
Proprietary Not Listed

United States - California

□ Environment ————————————————————————————————————		
U.S California - Proposition 65 - Carcino	gens List	
Proprietary	. Proprietary	carcinogen, initial date 7/1/87
Proprietary	Proprietary	carcinogen, initial date 1/1/88
• Proprietary	Proprietary	carcinogen, initial date 1/1/88 (gas)
Proprietary	Proprietary ,	carcinogen, initial date 4/1/88
U.S California - Proposition 65 - Develop	omental Toxicity	
• Proprietary	Proprietary	developmental toxicity, initial date 8/7/09
/ Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Maximu	ım Allowable Dose Levels (MADL)	
• Proprietary	Proprietary	20 μg/day MADL
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - No Sign	ificant Risk Levels (NSRL)	
• Proprietary	Proprietary	2 μg/day NSRL
• Proprietary	Proprietary	30 μg/day NSRL
• Proprietary	Proprietary	40 μg/day NSRL (gas)
Proprietary	Proprietary	90 μg/day NSRL (inhalation)
U.S California - Proposition 65 - Reprod	uctive Toxicity - Female	
• Proprietary	Proprietary	female reproductive toxicity, initial date 2/27/87
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Reprod	uctive Toxicity - Male	
Proprietary	Proprietary	male reproductive toxicity, initial date 8/7/09
` - ∮Proprietary	Proprietary	Not Listed

303 Multisurface Cleaner			
• Proprietary • Proprietary			Listed Listed
er Information	• WARN cause	ING: This product contains a chemical known to the State cancer, birth defects, or other reproductive harm.	e of California to
Section 16 - Other Info	rmation		
Revision Date Preparation Date Other Information Disclaimer/Statement of Liability	 10/Jun Sched Information works contain Gold Endown 	ule B Number: 3402.20.5100. ation presented herein is believed to be factual, as it has been and opinions of persons believed to be qualified experts. He in this information is to be taken as warranty or represengle Co. bears legal responsibility. The user should reviewendations in the specific context of the intended use to	However, nothing sentation for which the wany
Gey to abbreviations NDA = No Data Available	iney ar	re appropriate.	
			·
<i>(</i>			
Preparation Date: 10/June/2015 Revision Date: 14/September/2015		Fo	rmat: GHS Language: English (US) OSHA HCS 2012

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

· 303 Fabric Guard

Synonyms

588055

Product Code

- 130606; 30601; 30602; 30603; 30604; 30604CSR; 30605; 30605CSR; 30606; 30606CSR; 30607; 30616; 30618; 30618BD; 30618CSR; 30674

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Product is used on recommended materials to create water repellency

Restrictions on use

Read and follow label directions for product use, safety warnings and hazards

Details of the supplier of the safety data sheet

Manufacturer

Gold Eagle Co.

4400 S. Kildare Avenue Chicago, IL 60632-4372

United States

http://www.goldeagle.com/

Telephone (General) • 773-376-4400

Emergency telephone number

N., facturer

1-800-535-5053 - (INFOTRAC #22283)

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

 Flammable Liquids 3 Acute Toxicity Oral 4 Aspiration 1

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Label elements **OSHA HCS 2012**

DANGER







Hazard statements • Flammable liquid and vapour

Harmful if swallowed

May be fatal if swallowed and enters airways

May cause drowsiness or dizziness

Precautionary statements

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Prevention • Keep away from heat, sparks, open flames and/or hot surfaces. | No smoking.

Keep container tightly closed.

Ground and/or bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mists, vapours, and/or spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

in case of fire: Use appropriate media for extinction.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Rinse mouth.

Do NOT induce vomiting.

Storage/Disposal .

Store in a well-ventilated place. Keep container tightly closed.

Keep dool. Store locked up.

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards **OSHA HCS 2012**

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

			Composition	
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Distillates (petroleum), hydrotreated light	CAS:64742- 47-8	0% TO 92%	NDA	OSHA HCS 2012: Flam. Liq. 4; Asp. Tox. 1; STOT SE 3: Narc.
Mineral spirits	NDA	0% TO 5%	NDA	OSHA HCS 2012: Not Classified
Acetic acid, butyl ester	CAS:123-86-	0% TO 2.4%	Ingestion/Oral-Rat LD50 • 10768 mg/kg Inhalation-Rat LC50 • 390 ppm 4 Hour(s) Skin-Rabbit LD50 • >17600 mg/kg	OSHA HCS 2012: Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2B; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl)
Solvent naphtha (petroleum), medium	CAS:64742- 88-7	1.7%	NDA	OSHA HCS 2012: Flam. Liq. 3; Asp. Tox. 1
nated acrylic copolymer	NDA	0% TO 1.6%	NDA	OSHA HCS 2012: Not Classified

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Revision Date: 14/September/2015

tion 4: First-Aid Measures

Description of first aid measures

Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

• IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Do NOT induce vomiting. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

All treatments should be based on observed signs and symptoms of distress in the
patient. Consideration should be given to the possibility that overexposure to materials
other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Spitable Extinguishing Media . Use carbon dioxide, dry chemical, foam and/or water fog.

l′ itable Extinguishing Media

No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

• Flammable; may be ignited by heat, sparks or flames. Containers may explode when heated.

Vapor explosion hazard indoors, outdoors or in sewers.

Many liquids are lighter than water.

Most vapors are heavier than air. They will spread along ground and collect in low or

confined areas (sewers, basements, tanks).

Runoff to sewer may create fire or explosion hazard.

Vapors may form explosive mixtures with air.

Vapor's may travel to source of ignition and flash back.

Hazardous Combustion Products

No data available

Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection.
 Wear positive pressure self-contained breathing apparatus (SCBA).
 Move containers from fire area if you can do it without risk.
 LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

F_{. nal Precautions}

 Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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Emergency Procedures

 As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

Stop leak if you can do it without risk.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors.

All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in

closed spaces.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

· Use only in well ventilated areas. Avoid contact with heat and ignition sources. Take precautionary measures against static charges. Do not use sparking tools, All equipment used when handling the product must be grounded. Agitate contents of container before using. Do not aerosolize this product. Inhalation of this product may cause severe illness or death. Avoid breathing vapor or spray mist. Wear a respirator and use proper ventilation. Avoid contact with eyes or skin. Wear glasses or goggles, gloves and other protective clothing. Use the proper equipment. This includes: exhaust fan, respirator with organic vapor cartridge, glasses or goggles, gloves and protective clothing. Before you start application, set up cross ventilation, open doors and windows, place a fan blowing out of a window or door to increase exhaust. Remove all people and animals from the exposure area. All personnel in the exposure area should wear a proper fitting respirator with organic vapor cartridge. Turn off air conditioner or heating units and remove all ignition sources. After spraying, solvent will continue to evaporate, so you must do the following until the solvent vapor concentration is below 300 ppm (about 30-60 minutes): Continue cross ventilation. Keep people and animals out of the spray area. Continue to wear respirators in the spray area. Do not expose the treated fabric to open flame or other ignition sources (such as matches or cigarette lighters). Avoid contamination of tobacco products. Wash hands thoroughly before smoking. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

· Store in a tightly closed container. Store in a well-ventilated place. Store away from oxidizing agents, sources of heat, direct sunlight or rain. No smoking in area of storage.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Acetic acid, butyl	TWAs	150 ppm TWA	150 ppm TWA; 710 mg/m3 TWA	150 ppm TWA; 710 mg/m3 TWA
\ 86-4)	STELs	200 ppm STEL	200 ppm STEL; 950 mg/m3 STEL	Not established

Preparation Date: 01/July/2012 Revision Date: 14/September/2015

Exposure controls

Engineering
Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use only appropriately classified electrical equipment.

Personal Protective Equipment

Respiratory

 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

· Wear chemical splash safety goggles.

Skin/Body

Wear appropriate gloves.

Environmental Exposure Controls

 Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene NIOSH = National Institute of Occupational Safety and Health

STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
al Form=	Liquid	Appearance/Description	Clear liquid with a banana fragrance.
Const	Clear	Odor	Banana
Odor Threshold	No data available		
General Properties		-	
Boiling Point	> 150 C(> 302 F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	рН	No data available
Specific Gravity/Relative Density	= 0.85 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)		
Volatility			
Vapor Pressure	0.5 mmHg (torr)	Vapor Density	5.3 Air=1
Evaporation Rate	< 0.1 n-Butyl Acetate = 1	VOC (Wt.)	100 %
VOC (Vol.)	100 %	Volatiles (Wt.)	100 %
Volatiles (Vol.)	100 %		
Flammability		<u> </u>	<u> </u>
Flash Point	122 F(50 C) CC (Closed Cup)	UEL	5.5 %
LEL	0.6 %	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental		•	
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

ctivity

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No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

l ossibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Keep away from heat, sparks, and flame. Incompatible materials.

Incompatible materials

· Strong alkalis, acids, and oxidizers.

Hazardous decomposition products

Thermal decomposition may include irritating vapors and carbon oxides (CO, CO2)

Section 11 - Toxicological Information

Information on toxicological effects

		Components	
Solvent naphtha (petroleum), 647 medium aliph. 88- (1.7%)		Multi-dose Toxicity: Inhalation-Mouse TCLo • 2200 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent weight; Reproductive Effects:Paternal Effects:Spermatogenesis; Inhalation-Rat TCLo • 5 Intermittent; Kidney, Ureter, and Bladder.Changes in tubules (including acute renal fail necrosis); Kidney, Ureter, and Bladder.Other changes; Inhalation-Rat TCLo • 550 mg/m³ 2 Endocrine:Other changes; Endocrine:Tumors; Inhalation-Rat TCLo • 550 mg/m³ 6 Hour(s) Kidney, Ureter, and Bladder.Other changes in urine composition; Kidney, Ureter, and Bkidney weight; Reproductive Effects:Paternal Effects:Spermatogenesis	50 mg/m³ 91 Day(s)- ure, acute tubular ! Year(s)-Intermittent; i 16 Day(s)-Intermittent;
Acetic acid, butyl ester (0% TO 2.4%)	123- 86-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 10768 mg/kg; Behavioral:Somnolence (general Lungs, Thorax, or Respiration:Other changes; Liver:Other changes; Skin-Rabbit LD50 • Irritation: Eye-Rabbit • 100 mg • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mode Multi-dose Toxicity: Inhalation-Rat TCLo • 1500 ppm 6 Hour(s) 13 Week(s)-Intermittent; Be (general depressed activity); Nutritional and Gross Metabolic:Gross Metabolite Change decreased weight gain; Inhalation-Rat TCLo • 1500 ppm 6 Hour(s) 13 Week(s)-Continuous Behavioral:Somnolence (general depressed activity); Behavioral:Food intake (anima Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Reproductive: Inhalation-Rat TCLo • 1500 ppm 7 Hour(s)(7-16D preg); Reproductive Effects:Specific Diabnormalities:Muscu loskeletal system; Inhalation-Rat TCLo • 1500 ppm (6-20D preg); Reffects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)	>17600 mg/kg; erate irritation; ehavioral:Somnolence es:Weight loss or s; al); Nutritional and Gross ets:Effects on Embryo or evelopmental

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Data lacking
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Oral 4
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Data lacking
Skin sensitization	OSHA HCS 2012 • Data lacking
·RE	OSHA HCS 2012 • Data lacking
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

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		}
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking	
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking	

ntial Health Effects

Inhalation

Acute (Immediate)

· May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

May cause mild irritation.

Chronic (Delayed)

No data available.

Eve

Acute (Immediate)

- May cause mild irritation.
- Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)

Chronic (Delayed)

· Harmful if swallowed. Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

No data available.

Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

tion 12 - Ecological Information

Toxicity

· Non-mandatory section - information about this substance not complied for this reason.

Persistence and degradability

· Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

· Non-mandatory section - information about this substance not complied for this reason!

Mobility in Soil

 Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

Non-mandatory section - information about this substance not complied for this reason

Section 13 - Disposal Considerations

Waste treatment methods

ict waste

Dispose of content and/or container in accordance with local, regional, national, and/or

Preparation Date: 01/July/2012 Revision Date: 14/September/2015 international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

tion 14 - Transport Information

	UN number	UN proper shipping nam	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Limited Quantity	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Acute, Fire

		Inventory
Component	CAS	TSCA
Acetic acid, butyl ester	123-86-4	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
s _t naphtha (∋um), medium aliph.	64742-88-7	Yes

United States

Labor

U.S OSHA - Process Safety Manageme	nt - Highly Hazardous Chemicals

- Distillates (petroleum), hydrotreated light
- · Acetic acid, butyl ester 123-86-4 Not Listed 64742-88-7 Not Listed
- Solvent naphtha (petroleum), medium aliph.

U.S. - OSHA - Specifically Regulated Chemicals

- Distillates (petroleum), hydrotreated light
- Acetic acid, butyl ester
- · Solvent naphtha (petroleum), medium aliph.

64742-47-8 Not Listed

64742-47-8

- 123-86-4 Not Listed
- 64742-88-7 Not Listed

Environment^{*}

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- · Distillates (petroleum), hydrotreated light
- Acetic acid, butyl ester
- · Solvent naphtha (petroleum), medium aliph.

- 64742-47-8 Not Listed
- 123-86-4 Not Listed

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances

- · Distillates (petroleum), hydrotreated light
 - scetic acid, butyl ester

- 64742-47-8
- Not Listed

Not Listed

Not Listed

123-86-4

64742-88-7

Not Listed

- Jolvent naphtha (petroleum), medium aliph,

- 64742-88-7
- Not Listed

110 014 (0)				1	
U.S CAA (Clean Air Act) - Accidental F	Release Prevention - Toxic Substances				
Distillates (petroleum), hydrotreated light		64742-47-8		Listed	
Acetic acid, butyl ester		123-86-4		Listed	
Solvent naphtha (petroleum), medium aliph		64742-88-7	Not I	Listed	
U.S CERCLA/SARA - Hazardous Subst	ances and their Reportable Quantities				
Distillates (petroleum), hydrotreated light	and and more reportable admitted	64742-47-8	Not I	isted	
, , ,				b final RQ (listed under	
Acetic acid, butyl ester		123-86-4		acetate); 2270 kg final	
			RQ (sted under Butyl acetate)	
 Solvent naphtha (petroleum), medium aliph 		64742-88-7	Not I	isted	
ILS CEDCLAIGADA Santian 200 Futan					
Distillates (petroleum), hydrotreated light	mely Hazardous Substances EPCRA RQs	64742-47-8	Not I	isted	
Acetic acid, butyl ester		123-86-4		listed	
 Solvent naphtha (petroleum), medium aliph 		64742-88-7		isted	
corrona noprana (podolecim), mediam diipir		04742-00-7	NOLI	isted	
U.S CERCLA/SARA - Section 302 Extre	mely Hazardous Substances TPQs				
 Distillates (petroleum), hydrotreated light 		64742-47-8	Not I	isted	
 Acetic acid, butyl ester 		123-86-4	Not I	isted	
 Solvent naphtha (petroleum), medium aliph 		64742-88-7	Noț l	isted	
U.S CERCLA/SARA - Section 313 - Emis	ssion Reporting	•			
Distillates (petroleum), hydrotreated light		64742-47-8		isted	
Acetic acid, butyl ester		123-86-4		isted	
 Solvent naphtha (petroleum), medium aliph 	•	64742-88-7	Not t	isted	
S CERCLA/SARA - Section 313 - PBT	Chemical Lieting				
Distillates (petroleum), hydrotreated light	Unemical Listing	64742-47-8	Not I	_isted	
Acetic acid, butyl ester		123-86-4	- 1	_isted	
Solvent naphtha (petroleum), medium aliph		64742-88-7	1	isted	
34 1					
U.S CWA (Clean Water Act) - Hazardot	s Substances		ŀ		
 Distillates (petroleum), hydrotreated light 		64742-47-8	Not)	isted	
 Acetic acid, butyl ester 		123-86-4	(liste	d under Butyl acetate)	
 Solvent naphtha (petroleum), medium aliph 		64742-88-7	Not	isted	
H. O. O. O. O. O. O. O. O. O. O. O. O. O.], .				
 U.S CWA (Clean Water Act) - Toxic Pol Distillates (petroleum), hydrotreated light 	liutants	64740 47 0	N-41	7-4-4	
Acetic acid, butyl ester		64742-47-8	1	_isted	
 Solvent naphtha (petroleum), medium aliph 		123-86-4 64742-88-7	- 1	_isted _isted	
Content hapitala (pendicolla), mediam alipin	•	04742-00-7	NOU	Listed	
United States Colifornia					
United States - California			1		
Environment U.S California - Proposition 65 - Carcil	agona List				
Distillates (petroleum), hydrotreated light	logens List	64742-47-8	Moti	_isted	
Acetic acid, butyl ester		123-86-4		isted	
Solvent naphtha (petroleum), medium aliph		64742-88-7	í	_isted	
(Periodelly) modisin dilph]	3-11-1 2 -00-1			
U.S California - Proposition 65 - Devel	opmental Toxicity		- 1		
 Distillates (petroleum), hydrotreated light 	_	64742-47-8	Not I	isted	
∠ Acetic acid, butyl ester		123-86-4	Noti	isted	
Solvent naphtha (petroleum), medium aliph		64742-88-7	Not	∟isteḋ	
					_
Preparation Date: 01/July/2012			Fo	rmat: GHS Language: English (US	- i)

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]	
	U.S California - Proposition 65 - Maximu	n Allowable Dose Levels (MADL)		1
	 Distillates (petroleum), hydrotreated light 	64742-47-8	Not Liste	ed
	Acetic acid, butyl ester	123-86-4	Not Liste	ed
{	Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Liste	ed {
	U.S California - Proposition 65 - No Signi	ficant Risk Levels (NSRL)		
	Distillates (petroleum), hydrotreated light	64742-47-8	Not Liste	ed
	Acetic acid, butyl ester	123-86-4	Not Liste	1
	Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Liste	ed
	U.S California - Proposition 65 - Reprodu	ctive Toxicity - Female		
	Distillates (petroleum), hydrotreated light	64742-47-8	Not Liste	:d
	Acetic acid, butyl ester	123-86-4	Not Liste	:d
	Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Liste	d
	U.S California - Proposition 65 - Reprodu	ctive Toxicity - Male		
	Distillates (petroleum), hydrotreated light	64742-47-8	Not Liste	d
	Acetic acid, butyl ester	123-86-4	ا Not Liste	d
	Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Liste	d

Section 16 - Other Information

Revision Date

Preparation Date

Disclaimer/Statement of lity

14/September/2015

01/July/2012

Information presented herein is believed to be factual, as it has been derived from the
works and opinions of persons believed to be qualified experts. However, nothing
contained in this information is to be taken as warranty or representation for which the
Gold Eagle Co. bears legal responsibility. The user should review any
recommendations in the specific context of the intended use to determine whether
they are appropriate.

Key to abbreviations NDA = No Data Available

SAFETY DATA SHEET

674806

ction 1. Identification

Product name

: CHASSIS SHIELD™ Rust Inhibitor

Product code

: 674806

Other means of

: Not available.

identification

Product type

: Aerosol.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufacturer

: Distributed by:

Fastenal Company 2001 Theurer Blvd. Winona, MN 55987

Emergency telephone

number of the company

: (216) 566-2917

Product Information Telephone Number

: (507) 454-5374

Regulatory Information

: (216) 566-2902

Telephone Number

Transportation Emergency

ohone Number

: (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910,1200).

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 25% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 40% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 40%

GHS label elements

Hazard pictograms









ignal word

: Danger

Section 2. Hazards identification

Hazard statements

: Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes serious eve irritation.

Causes skin irritation.

May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.

Response

: Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer. FOR INDUSTRIAL USE ONLY.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise

: None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Heavy Paraffinic Oil	≥50 - ≤75	64742-65-0
Kerosine, petroleum	≥10 - ≤25	8008-20-6
Aliphatic Solvent	≥10 - ≤25	64742-47-8
Propane	≥10 - ≤25	74-98-6
2-Butoxyethanol	≤10	111-76-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

્્યાpational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

re contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: Causes skin irritation.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eve contact

: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.



Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

iods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

ding any **impatibilities**

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight, Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Heavy Paraffinic Oil	OSHA PEL (United States, 6/2016).
	TWA: 5 mg/m³ 8 hours.
	ACGIH TLV (United States, 3/2016).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m³ 10 hours Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
Kerosine (petroleum)	NIOSH REL (United States, 10/2013).
	TWA: 100 mg/m³ 10 hours.
	ACGIH TLV (United States, 3/2016).
	Absorbed through skin.
	TWA: 200 mg/m³, (as total hydrocarbon
	vapor) 8 hours.
Aliphatic Solvent	ACGIH TLV (United States, 3/2016).
. ,'	Absorbed through skin.
	TWA: 200 mg/m³, (as total hydrocarbon
	vapor) 8 hours.
Propane	NIOSH REL (United States, 10/2016).
'	TWA: 1000 ppm 10 hours.
	TWA: 1800 mg/m³ 10 hours.
	OSHA PEL (United States, 6/2016).

ection 8. Exposure controls	s/personal protection
2-Butoxyethanol	TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours.

	
Occupational exposure limits (Canada)	
Ingredient name	Exposure limits
Kerosine (petroleum)	CA British Columbia Provincial (Canada, 5/2015). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 200 mg/m³ 8 hours. CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Saskatchewan Provincial (Canada,
-	7/2013). Absorbed through skin. STEL: 250 mg/m³, (measured as total hydrocarbon vapour) 15 minutes. TWA: 200 mg/m³, (measured as total hydrocarbon vapour) 8 hours.
Aliphatic Solvent	CA British Columbia Provincial (Canada, 7/2016). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
Propane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 1000 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 1000 ppm 8 hours.
2-Butoxyethanol	CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 97 mg/m³ 8 hours.

Section 8. Exposure controls/personal protection

8 hrs OEL: 20 ppm 8 hours.

CA British Columbia Provincial (Canada,

7/2016).

TWA: 20 ppm 8 hours.

CA Ontario Provincial (Canada, 7/2015).

TWA: 20 ppm 8 hours.

CA Québec Provincial (Canada, 1/2014).

TWAEV: 20 ppm 8 hours. TWAEV: 97 mg/m³ 8 hours.

CA Saskatchewan Provincial (Canada,

7/2013).

STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Kerosine (petroleum)	NOM-010-STPS-2014 (Mexico, 4/2016).
	Absorbed through skin.
	LMPE-PPT: 200 mg/m ³ 8 hours.
Aliphatic Solvent	ACGIH TLV (United States, 3/2016).
	Absorbed through skin.
	TWA: 200 mg/m³, (as total hydrocarbon
	vapor) 8 hours.
Propane	NOM-010-STPS-2014 (Mexico, 4/2016).
•	TWA: 1000 ppm 8 hours.
2-Butoxyethanol	NOM-010-STPS-2014 (Mexico, 4/2016).
	Absorbed through skin.
	TWA: 20 ppm 8 hours.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Section 8. Exposure controls/personal protection

Body protection : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : 7

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

Evaporation rate : 1 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

The property of the state

mable) limits Upper: 10.6%

Vapor pressure : 101.3 kPa (760 mm Hg) [at 20°C]

Vapor density : 1.55 [Air = 1]

Relative density : 0,78

Solubility : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)

Molecular weight ; Not applicable.

Aerosol product

ions

Type of aerosol : Spray
Heat of combustion : 36.019 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Probibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

ction 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Heavy Paraffinic Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-
_	LD50 Oral	Rat	>5000 mg/kg	-
Kerosine (petroleum)	LD50 Oral	Rat	15 g/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
,	LD50 Oral	Rat	1300 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kerosine (petroleum)	Skin - Moderate irritant	Rabbit		0.5 Milliters	-
v ,	Skin - Moderate irritant	Rabbit	-	24 hours 100	_
				Percent	
	Skin - Severe irritant	Rabbit	-	500	-
				milligrams	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	100	 -
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
, _ W.				milligrams	

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP	
Kerosine (petroleum) 2-Butoxyethanol		3	-	

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Kerosine (petroleum)	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Aliphatic Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract

Section 11. Toxicological information

2-Butoxyethanol

Category 3

Not applicable.

Respiratory tract irritation and Narcotic effects

Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Kerosine (petroleum) Aliphatic Solvent Propane 2-Butoxyethanol	Category 2 Category 2	Not determined Not determined	Not determined Not determined Not determined Not determined

Aspiration hazard

Name	Result
Kerosine (petroleum) Aliphatic Solvent Propane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

contact : Causes skin irritation.

ம்றும்stion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache .

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

term exposure

Intial immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Potential chronic health effects

Met available.

اral في الأ

May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	18571.4 mg/kg
Dermal	12571.4 mg/kg
Inhalation (vapors)	125.7 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Aliphatic Solvent toxyethanol	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not

Section 13. Disposal considerations

puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2, 13-2.17 (Class 2).	-		Emergency schedules F-D, S- U
	ERG No.	ERG No.	ERG No.	1	
×. , , ,	126	126	126		

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and

: Not available.

the IBC Code

Proper shipping name

: Not available.

Ship type

: Not available.

Pollution category

: Not available.

Section 15. Regulatory information

SARA 313

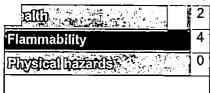
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

Section 16. Other information

Harardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards of risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 PIRATION HAZARD - Category 1	Calculation method Calculation method

: Ory

Date of printing

Date of issue/Date of

revision

: 1/25/2018 : 1/25/2018

Date of previous issue

: No previous validation

Version

: 1

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed herwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use ين ﷺ dition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the

Section 16. Other information product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from other source.

MATERIA	AL SAFET	ry DA	ATA	SH	EE	T	
OSHA - Meets 29 CFR 1910.1200 Standards		j j	IMIS HAZ	ARD RA	TINGS		
E.P.A. Environmental Products of America, Inc.	HEALTH FLAMMABILITY REACTIVITY		0 1	= INSIGN = SLIGH = MODE ION INF	T RATE	4 =	HIGH EXTREME
250TION 4 PROPUST (201	PROPER SHIPP HAZARD CLASS IDENTIFICATION	ING NAME: / PKG GRP: N NUMBER:	Not Regulat None / None None	ed ∍	REF: LABEL:	Not Applicable None Required	
SECTION 1 - PRODUCT / CON	IPANY IDENTIFI	CATION					_
IDENTITY (AS USED ON LABEL AND LIST) WASH & WAX CONCENTRATE						Page 1 of 2	
MANUFACTURER'S NAME Environmental Products Of America, Inc. ADDRESS (NUMBER, STREET, P.O. BOX)	EMERGENCY TELEPHONE NUMBER Chemtrec (800) 424-9300 TELEPHONE NUMBER FOR INFORMATION						
P.O. Box 100576 (CITY, STATE AND ZIP CODE)		(205) 951- DATE PREP	5100		per 6, 20		
Birmingham, AL 35210-		SUPERSEDI			r 12, 200	0	
SECTION 2 - HAZARDOUS IN	IGREDIENTS / ID						
HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS#	% (OPTIONAL)	OSHA PPM	PEL MG/M ³	ACG PPM		ARA RO LE III LBS
Isopropyl alcohol	67-63-0		400	980	500	1225	<u> </u>
SECTION 3 - HEALTH HAZAI ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXF INHALATION: High concentrations are irritating to the cause headache, dizziness, nausea, vomiting and ma	POSURE ne respiratory tract; may	affected perso	ted person to n is not brea	o fresh air	; provide (oxygen if breathin	
SKIN: Brief contact may cause slight irritation; prolor moderate reddening, swelling and possible necrosis.	nged contact may cause		minated clo			area with soap a	
EYES: Contact causes severe irritation and pain ass swelling of the conjunctiva.	sociated with redness and	Flush eyes wit if irritation pers				nutes while holdin	ng eyelids op
INGESTION: Moderately toxic; may cause headache general weakness; large doses may result in red bloc			ever give ar			vomiting by stick an unconscious p	
HEALTH HAZARDS (ACUTE AND CHRONIC): Acu	ite effects are possible irritat	ion and discomfo	rt; no knowr	chronic e	ffects hav	e been establish	ed.
CARCINOGENICITY ANO additional information MEDICAL CONDITIONS GENERALLY AGGRAVATION	NTP?			OGRAPHS?		OSHA REGUI	
prolonged exposure.		<u> </u>				-	

MATERIAL SAFETY DATA	SHEET			İ
IDENTITY (AS USED ON LABEL AND LIS	ST)		Page 2	of 2
WASH & WAX CONCENTRATE			Date:	November 6, 2002
SECTION 4 - FIRE FIGHTI	NG MEASURES			
FLASH POINT (METHOD USED) Non-flammable	FLAMMABL	E LIMITS LEL: Not appli	cable	UEL: Not applicable
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemic	al, chemical foam			
SPECIAL FIRE FIGHTING PROCEDURES				
Keep containers cool with water spray to pre-	vent container rupture due to ste	am buildup; floor will become slippery if r	naterial is	released.
UNUSUAL FIRE AND EXPLOSION HAZARDS				•
SECTION 5 - ACCIDENTA	<u>. 1. L </u>			
STEPS TO BE TAKEN IN CASE MATERIAL IS approved absorbent, shovel product into approved.			enty of wa	ater. Large spills - soak up with
approved absorberit, shover product into appro-	red container for disposal. Wasi	ir area with pionity of water,		
SECTION 6 - HANDLING	AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING		ner closed when not in use; protect conta	ainers fro	m abuse; protect from extreme
temperatures. Keep this and other chemicals of	out of reach of children.			
			ľ	
SECTION 7 - EXPOSURE	CONTROLS / PERS	SONAL PROTECTION		
RESPIRATORY PROTECTION (SPECIFY TY			imum alle	owable concentrations; if TWA
exceeds limits, NIOSH approved respirator mu			1	·
	L EXHAUST: Required . (GENERAL): Yes	SPECIAL: To maintain minimum	I	
PROTECTIVE GLOVES: Neoprene or rubber		OTHER: Engineering and worl EYE PROTECTION: Safety goggle		
OTHER PROTECTIVE CLOTHING OR EQUIP	MENT: Safety eyebath nearby			
WORK / HYGIENIC PRACTICES: Practice sa			icals in g	eneral.
SECTION 8 - PHYSICAL / C	HEMICAL PROPER			
BOILING POINT		SPECIFIC GRAVITY (WATER	= 1)	•
200° F VAPOR PRESSURE (MM Hg)		1.010 pH	<u> </u> 	
17 mm Hg @ 20 ° C		8.0	ł	
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (WATE	R = 1)	•
<1		<1		
SOLUBILITY IN WATER Miscible		% VOLATILE (BY WEIGHT)	ł	
APPEARANCE AND ODOR		85%		
Viscous colorless liquid, characteristic o	dor	<u> </u>	ļ	
SECTION 9 - STABILITY	ND REACTIVITY			
STABILITY	UNSTABLE:	CONDITIONS TO AVOID:	j	
	STABLE: XXX	Extreme temperatures		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids			Ì	
HAZARDOUS DECOMPOSITION OR BYPRO	DUCTS: Decomposition will not	t occur if handled and stored properly. In	case of	a fire, oxides of carbon.
hydrocarbons, fumes, and smoke may be prod				•
	AY OCCUR:	CONDITIONS TO AVOID:		
	CONCIDEDATION	None		
SECTION 10 - DISPOSAL	!		 	Banadan and Carlo
WASTE DISPOSAL METHOD: Dispose of in a hazardous waste upon contact with other prod	ccordance with Local, State, and ucts. Refer to "40 CFR Protection	a negeral Regulations. Products classified on of Environment Parts 260 - 299° for c	ed as non omplete :	- nazardous may become waste disposal regulations
Consult your local, state, or Federal Environment			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
e Information contained herein is believed to	be accurate but is not warrar	nted to be so. Data and calculations a	re based	on information furnished by the

in Information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendoe or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

MATER	IAL	SAFET	Y DA	ATA	SH	EE	T		
OSHA - Meets 29 CFR 1910.1200 Standard	is			IMIS HAZ	ARD RA	TINGS			
		HEALTH		-	0 = İNSIGI		Ţ	3 = HIGH	
E D & Environmental Produc	fe	FLAMMABILITY		_	1 = SLIGH	•		4 = EXTRE	ME
E.P.A. Environmental Product of America, Inc.					2 = MODE		TION		
<u> </u>	TRANSPORTATION INFORMATION PROPER SHIPPING NAME: Combustible liquid, n.o.s. (petroleum distillates)								
		HAZARD CLASS		Combustible	-	REF:	49 CFR 173.150, .203, .241		
		IDENTIFICATION		NA 1993		LABEL:	None Req	uired	
SECTION 1 - PRODUCT / CO	OMPAN	Y IDENTIFIC	CATION					-	
IDENTITY (AS USED ON LABEL AND LIST			 -				Page 1 o	f2	
RENEW 3000	1			RTU					
MANUFACTURER'S NAME		7	EMERGENO	Y TELEP	HONE N	JMBER		•	
Environmental Products Of America, Inc.			Chemtrec			.(
ADDRESS (NUMBER, STREET, P.O. BOX))		TELEPHONI	E NUMBE	R FOR IN	FORM/	NOITA		
P.O. Box 100576			(205) 951-						
(CITY, STATE AND ZIP CODE)			DATE PREP		Novem				
Birmingham, AL 35210-			SUPERSED		Octobe		00		
SECTION 2-HAZARDOUS	INGRE	UIEN IS / IDI							
HAZARDOUS COMPONENTS		CAS#	%	OSHA			3IH TWA	SARA	RQ
(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))			(OPTIONAL)	PPM_	MG/M ³	PPM	MG/M ³	TITLE III	LBS
Petroleum distillate, aliphatic		64742-48-9		500	2000				
Paraffinic hydrocarbon		64771-72-8		500	2000				
i		-							
	-						-	-	
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		_							
		•				- 1			
		-							·
' .									
-			-	-		 			
A A A A A A A A A A A A A A A A A A A	7, 70								
SECTION 3 - HEALTH HAZ	ARD D	ATA				1			
ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF			EMERGENCY						
INHALATION: High concentrations are irritating	to the respira	atory tract; may	Remove affect	ted person	to fresh air	; provide	oxygen if br	eathing is dif	ficult; if
cause headache, dizziness, nausea, vomiting and	d malaise.		affected perso		athing, ad	minister (CPR and see	k emergency	<i>†</i>
			medical attent	tion.					
					-46:	- L - Ef - 44a	م طافات مع مع الم	non and wat	tor:
SKIN: Brief contact may cause slight irritation; pri moderate irritation or dermatitis.	rolonged con	tact may cause	Remove conta	aminated ci minated cic	oming; was sthing hefor	e rense:	o area with a if imitation be	rsists, seek	medical
moderate initiation of dermands.			attention.	minatos ote	ia ang bolo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii iiiidadii pi		
EYES: High vapor concentration or contact may	cause irritati	ion and discomfort.	Flush eyes wi	th clear run	ning water	for 15 m	inutes while	nolding eyeli	ds open;
Country			if irritation per						
						}			
									
INGESTION: May result in vomiting; aspiration			DO NOT indu						
be avoided; DO NOT induce vomiting. Minute ar			hips to prever attention. Vo	nt aspiratior miting may	n of liquid if he inducer	ito lungs:	; seek immed der the suber	vision of a pl	hvsician.
can produce severe lung injury, chemical pneum death.	omas, pumo	nary cuema or	4.01111011. 40	ug may		, 4.1	_2 Jupor		
HEALTH HAZARDS (ACUTE AND CHRONIC):	Acute effect	s are nossible irritat	ion and discomfe	ort: no knov	vn chronic	effects h	ave been est	ablished. Ha	armful or
fatal if swallowed. Vapor harmful.	Works suech	a are possible iiildi	ion and discorni	Jan HO KIIOF					
Company of the Compan									
CARCINOGENICITY		NTP?	No	IARC MO	NOGRAPHS	No.	OSHA	REGULATED?	No
No additional information									
MEDICAL CONDITIONS GENERALLY AGGRA	VATED BY E	XPOSURE: Preexi	sting skin, eye, o	or respirator	y disorders	may be	come aggrav	ated through	
prolonged exposure.									
· · · · · · · · · · · · · · · · · · ·						į į			

MATERIAL SAFETY DATA	CHEET						<u> </u>
<u> </u>				• • • • • • • • • • • • • • • • • • • •			
IDENTITY (AS USED ON LABEL AND LIS RENEW 3000	''			RTU		Page 2 Date:	of 2 November 6, 2002
SECTION 4 - FIRE FIGHTII	VG MEA	SURES					
FLASH POINT (METHOD USED)	 	FLAMMABLE	LIMITS	LEL:	Not determ	ined	UEL: Not determined
_180° F PMCC							
EXTINGUISHING MEDIA	;1						
Carbon dioxide, water fog, dry chemical, chem SPECIAL FIRE FIGHTING PROCEDURES	ical toam	_					
Firefighters must wear full facepiece self - con	tained breathin	g apparatus in po	sitive pressur	e mode. Do n	ot use solid s	tream o	 of water since stream will scatter
and spread fire. Fine water spray can be used	to keep fire - e	exposed container	s cool.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Closed containers can explode due to buildup reignite on water surface. Caution - Material is	of pressure wh s flammable!	en exposed to ext	reme heat. D	o not use dire	ct stream of w	ater on	pool fires as product may
SECTION 5 - ACCIDENTAL	RELEA:	SE MEAS	JRES	-			
STEPS TO BE TAKEN IN CASE MATERIAL IS	RÉLEASED OI	R SPILLED: CON	BUSTIBLE -	Evacuate and	ventilate area	a; remo	ve all sources of sparks, ignition
and open flames; confine and absorb into approv	red absorbent;	place material into	approved co	ntainers for di	sposal; do not	wash t	o sewer or waterway.
SECTION 6 - HANDLING A	ND STO	RAGE					
PRECAUTIONS TO BE TAKEN IN HANDLING	AND STORAG	E: This material i	s combustible	. It should be	stored in tight	lly close	ed containers in a cool, well
ventilated area. Vapor may form explosive mixtu Avoid inhaling concentrated fumes or vapors.	res in air. All s	sources of ignition	should be co	ntrolled. Keep	this and othe	er chem	icals out of reach of children.
SECTION 7 - EXPOSURE (
RESPIRATORY PROTECTION (SPECIFY TYPI exceeds limits, NiOSH approved respirator must	E): None requi be worn. Refe	red while thresholer to 29 CFR 1910	d limits (Secti).134 for comp	on II) are kept olete regulatio	below maxim ns.	ium allo	owable concentrations; if TWA
VENTILATION LOCAL	EXHAUST:	Required	SPECIA	L: To mainta	in minimum T	WA and	d STEL levels.
MECHANICAL (R: Engineerir			
PROTECTIVE GLOVES: Neoprene or rubber gl			EYE PROT	ECTION: Sa	fety goggles v	vith side	e shields
VORK / HYGIENIC PRACTICES: Practice safe	workplace hab	its. Minimize boo	ly contact with	this as well:	as all chemics	els in de	
SECTION 8 - PHYSICAL / CH				1 4110, 40 11011	as all Chemice	iis ii ge	siletai,
BOILING POINT				GRAVITY	(WATER =	1)	
435° F			0.990		(**************************************	'	
VAPOR PRESSURE (MM Hg)			pH				
<pre>< 1 mm Hg @ 20 ° C VAPOR DENSITY (AIR = 1)</pre>	 	-	8.0 EVADOD	ATION RATE	- AMATED	- 4\	
6			<1	ATION NATI	- (WAIEK	- ' <i>)</i> {	
SOLUBILITY IN WATER				ILE (BY WE	IGHT)		<u> </u>
Appreciable APPEARANCE AND ODOR			83%			- 	
White opaque liquid, characteristic hydrod	arbon odor]	
SECTION 9 - STABILITY A		CTIVITY					
	NSTABLE:		CONDITIO	NS TO AVOID	D:		
	STABLE:	xxx _	Extreme	temperatures,	open flames		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids							
HAZARDOUS DECOMPOSITION OR BYPROD hydrocarbons, fumes, and smoke may be produced by the state of	ed.	position will not o	ccur if handle	d and stored p	roperly. In ca	se of a	fire, oxides of carbon,
	Y OCCUR: T OCCUR:	xxx	CONDITIO None	NS TO AVOID	D:	-	
SECTION 10 - DISPOSAL (ONSIDE	RATIONS	_			 -	
WASTE DISPOSAL METHOD: Dispose of in acc or fumes in a disposal container creating a dange regulations for ignitable materials. Consult your sanitary sewer or waterway.	rous environm ocal, state, or i	ent. Refer to "40 Federal Environm	CFR Protecti ental Protection	on of Environs on Agency bef	ment Parts 26 ore disposing	0 - 299' of any	" for complete waste disposal chemicals. Do not flush to
information contained herein is believed to I	e accurate bu	t is not warrante	d to be so.	Data and calc	ulations are l	based o	on information furnished by the
infacturer of the product and manufacturers of use	the compone	nts of the produc	t. Users are	advised to co	nfirm in adva	nce of i	need that information is current.
reasonable safety procedures are not adhered to as	stipulated in	lhe data sheet. Fi	urthermore, ve	endor assume	s no responsi	bility fo	or injury caused by abnormal use
of this material even if reasonable safety procedure described in Section 1.	s are followed	. Any questions	regarding this	product sho	uld be directe	d to the	manufacturer of the product as
MSDS PREPARED BY:	CDB, Inc., I	P.O. Box 5604,	Lakeland, i	FL 33807 (8	163) 644 - 32	298	www.compdatabase.com

MATER	IAL	SAFE'	TY DA	ATA	SF	EE	T		
OSHA - Meets 29 CFR 1910.1200 Standar	rds		}	IMIS HAZ	ARD RA	TINGS	<u> </u>		
		HEALTH			0 = INSIGI		<u></u>	3 = HIGH	
<u> </u>	l	FLAMMABILITY	•		1 = SLIGH			4 = EXTRE	ME
E.P.A. Environmental Production of America, Inc.	cts	REACTIVITY		•	2 = MODE			, ,,,,,,,	
of America, Inc.	ļ		TRAN	SPORTAT			TION		
	 	PROPER SHIPE		Not Regula		<u> </u>			
		HAZARD CLASS		None / Non		REF:	Not Applic	ahle	
		IDENTIFICATIO	=	None		LABEL:	None Req		
SECTION 1 - PRODUCT / C	OMPAN					D IDEE.	- Nono Meq	un cu	-
		I IDENTIF	CATION						
IDENTITY (AS USED ON LABEL AND LIST	וי					}	Page 1 o	f 2	
BLACK STREAK				RTU					
MANUFACTURER'S NAME			EMERGENO			JMBER			
Environmental Products Of America, Inc.	-		Chemtrec						
ADDRESS (NUMBER, STREET, P.O. BOX	9		TELEPHONE		R FOR IN	FORMA	TION		
P.O. Box 100576			(205) 951-						
(CITY, STATE AND ZIP CODE)			DATE PREP	-	Novem			<u> </u>	
Birmingham, AL 35210-			SUPERSED		October		00		_
SECTION 2 - HAZARDOUS	INGRE	DIENTS / ID	ENTITY IN	VFORM	ATION	, —			_
HAZARDOUS COMPONENTS	 	_ · · -	<u> </u>	ACGIH			IH STEL	SARA	RQ
(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))		CAS#	(OPTIONAL)	PPM	MG/M ³	PPM	MG/M ³	TITLE III	LBS
Sodium metasilicate		6834-92-0	 	1 1 191		FFIVI	WONV		
- Oddan metasiidate		0034-92-0			6				
			·						
<u></u>	-		— · —-						_
		·				. 1			
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·				- -			<u> </u>		
· 									
						ĺ			
	i					i			
SECTION 3 - HEALTH HAZ	ARD DA	ΔΤΔ				- 			
ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF			FNEDOENOVA	NO CIDOT A					
INHALATION: Breathing concentrated vapors m		at imitation of	EMERGENCY A			:			
respiratory tract.	ay cause siigr	it irritation of	Remove affect attention.	ea person to	o fresh air;	if sympto	oms persist s	eek medical	J
Tophana, and			attenuori.						
İ									
SKIN: Prolonged contact may cause slight irritati			Domesia						
Grant. I tolonged contact may cause slight initiat	OII.		Remove contain						
			launder contan attention.	ilinated Cloti	iing belore	reuse; ii	irntation per	sists, seek r	nedical
			ducinaon.						
EYES: Contact with eyes will cause irritation.	<u> </u>		Floral accession	1 · · ·		45			
ETES. Contact was cycs will cause intragon.			Flush eyes with if irritation pers	iete eook m	ing water t	or 15 min	iutes while h	olding eyelid	s open;
			ir iiritation pers	1313, 30CK 111	ieulcaj alle	ittion.			
]			
INGESTION: May cause gastric distress, vomitin	o and diserbe		Chie hue alaca	oo of1-	familiar	. DC :::	T :_ J	-fat	
Tropolitical may oduse gasare distress, voltrall	ig and diame	a.	Give two glass attention.	es of water	ior allution	; טט אָט	i induce von	niting; seek r	nedical
			atternion,						
						ļ			
HEALTH HAZARDS (ACUTE AND CHRONIC):	Acute effects	are neccible imitati	on and discomfor	t no known	obsonia of	faata Kair		. Mala a a	
TE STITUS WAS (NOOTE AND OTHIONIC).	Acute effects	are hossing illian	on and discomfor	t; no known	chronic er	rects nav	e been estat	olisnea.	
CARCINOGENICITY			h.t			_			
No additional information		NTP?	No	IARC MONO	GRAPHS?	No	OSHA R	EGULATED?	No
EDICAL CONDITIONS GENERALLY AGGRAV	ATED BY EV	POSTIDE: Broad	eting ekin ove es	roopirates	diaard			- d th- 1	
rolonged exposure.	WILD DI CV	OGUNE, FIEEXIS	omig akiii, eye, Or	respiratory (uisoraers r	nay beco	me aggravat	ea inrough	
	 					<u> </u>			

MATERIAL SAFETY DATA	SHEET	- 		
IDENTITY (AS USED ON LABEL AND LIS BLACK STREAK	ST)	RTU	Page 2 Date:	of 2 November 6, 2002
SECTION 4 - FIRE FIGHTI	NG MEASURES	110		1104ember 0, 2002
FLASH POINT (METHOD USED) Non-flammable	FLAMMABLE	ELIMITS LEL: No	t applicable	UEL: Not applicable
EXTINGUISHING MEDIA				
Carbon dioxide, water, water fog, dry chemica	al, chemical foam		_	
SPECIAL FIRE FIGHTING PROCEDURES Keep containers cool with water spray to prev	rent container rupture due to stea	m buildup; floor will become slip	pery if material is	released.
UNUSUAL FIRE AND EXPLOSION HAZARDS				
SECTION 5 - ACCIDENTAL				
STEPS TO BE TAKEN IN CASE MATERIAL IS approved absorbent, shovel product into approve	RELEASED OR SPILLED: Sma red container for disposal. Wash	Il spills - wash to sanitary sewer area with plenty of water.	with plenty of wa	ter. Large spills - soak up with
SECTION 6 - HANDLING A	AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING	AND STORAGE: Keep containe	er closed when not in use; prote	ct containers from	abuse; protect from extreme
temperatures. Keep this and other chemicals o	ut of reach of children.	•		
SECTION 7 - EXPOSURE	CONTROLS / PERS	ONAL PROTECTIO	N	
RESPIRATORY PROTECTION (SPECIFY TYP air must be worn. Refer to 29 CFR 1910,134 for	E) None required: however, if n			e of removing particulate from
	EXHAUST: Not necessary (GENERAL): Yes	SPECIAL: None OTHER: None		
PROTECTIVE GLOVES: Neoprene or rubber of	loves with cuffs.	EYE PROTECTION: Safety	goggles with side	shields
OTHER PROTECTIVE CLOTHING OR EQUIP	MENT: Safety eyebath nearby			
WORK / HYGIENIC PRACTICES: Practice safe SECTION 8 - PHYSICAL / CI			il chemicals in ge	neral,
BOILING POINT 212° F		SPECIFIC GRAVITY (W/ 1.010	ATER = 1)	
VAPOR PRESSURE (MM Hg)		pН		
17 mm Hg @ 20 ° C VAPOR DENSITY (AIR = 1)	-	13.1	A/ATED - 4\	
<1 (AIX = 1)		EVAPORATION RATE (\) < 1	WATER = 1)	
SOLUBILITY IN WATER Complete		% VOLATILE (BY WEIGH 97%	⊣T)	
APPEARANCE AND ODOR				·
Colorless liquid, characteristic odor SECTION 9 - STABILITY A	NO DEACTIVITY			
· · · · · · · · · · · · · · · · · · ·	UNSTABLE:	CONDITIONS TO AVOID:		
	STABLE: XXX	Extreme temperatures		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids				
HAZARDOUS DECOMPOSITION OR BYPROD hydrocarbons, fumes, and smoke may be produ	DUCTS: Decomposition will not c	occur if handled and stored prope	erly. In case of a	fire, oxides of carbon,
	AY OCCUR:	CONDITIONS TO AVOID:	_	
SECTION 10 - DISPOSAL	CONCIDED A TIONS	None		
WASTE DISPOSAL METHOD: Dispose of in ac		Enderal Regulations - Products a	lassified on non	hazardaya may hasara
hazardous waste upon contact with other produ Consult your local, state, or Federal Environmer	cts. Refer to "40 CFR Protection	of Environment Parts 260 - 299	for complete wa	aste disposal regulations.
e information contained herein is believed to inufacturer of the product and manufacturers of applicable and suited to the circumstances of us reasonable safety procedures are not adhered to a of this material even if reasonable safety procedures are not adhered to a of this material even if reasonable safety procedures are not adhered in Section 1.	of the components of the produce. Vendor assumes no responsion stipulated in the data sheet. F	ct. Users are advised to confirn bility for injury to vendee or this urthermore, vendor assumes no	n in advance of r rd persons proxir responsibility fo	seed that information is current mately caused by the material i r injury caused by abnormal use
	: CDB, Inc., P.O. Box 5604,	Lakeland, FL 33807 (863)	644 - 3298	www.compdatabase.com



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

DAP® 100% Silicone Rubber Window, Door & Siding Sealant

PRODUCT DESCRIPTION

DAP® 100% SILICONE RUBBER WINDOW, DOOR & SIDING SEALANT is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



COLOR	UPÇ
White	7079800752
Clear	7079800753
White	7079808646
Clear	7079808641
Almond	7079808649
Aluminum	7079808643
Bronze	7079808647
Black	7079808642
	White Clear White Clear Almond Aluminum Bronze

KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920 requirements for Class 25, Use G
- 100% waterproof & weatherproof seal
- Flexible
- Cured sealant is mold & mildew resistant
- Interior/exterior use



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SUGGESTED USES

USE FOR CAULKING & SEALING:

- Windows
- Doors
- Siding
- Trim
- Pipes

- Vents
- Ducts
- Gutters.
- Flashing

ADHERES TO:

- Wood
- Composite wood
- Aluminum
- Most metals*
- Glass

- Ceramic
- Porcelain
- Vinvl
- Most plastics & rubbers
- Most rubbers

FOR BEST RESULTS

- Apply when surface temperatures are between -35°F to 140°F.
- Joint width should not exceed ½". If joint depth exceeds ½", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
- Not for oily woods or cementitious surfaces. Substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene do not allow for best adhesion and compatibility with sealant. Try test area before using.
- Not paintable. Paint substrate surface before applying sealant.
- Store below 80°F in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of old caulk, dirt, dust & other foreign material.

Product Application

- 1. If using squeeze tube, remove cap & cut nozzle at 45° angle to desired bead size. Unscrew nozzle & remove foil seal. Replace nozzle.
- 2. Is using cartridge, cut nozzle at a 45° angle to desired bead size. Puncture inner foil seal. Load into caulk gun.
- 3. Fill gap or crack with sealant.
- 4. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
- 5. Allow sealant to cure for at least 12 hours before exposing to water.



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- 6. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours.
- 7. Clean up excess uncured sealant from surface and tools with mineral spirits. Scrape or cut away excess cured sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
- 8. Sealant is not paintable. Paint surfaces prior to applying sealant.
- 9. Reseal cartridge/tube for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Turnical Hannard Physical Pro-	,		
Typical Uncured Physical Properties			
Appearance/Consistency	Smooth, gunnable paste		
Base Polymer	Silicone rubber		
Filler	Not applicable		
Volatile	Not applicable		
Weight % Solids	>97%		
Density (lbs per gallon)	8.0		
Odor	Vinegar like		
Clean Up	Mineral spirits		
Flash Point	>212°F		
Freeze Thaw Stability (ASTM C1183)	Will not freeze		
Shelf Life	24 months		
Coverage	9.8 oz: 53 linear feet at 3/16" diameter bead		
	2.8 oz: 15 linear feet at 3/16" diameter bead		
Typical Application Properties			
Application Temperature Range	-35°F to 140°F		
Tooling Time (Working Time)	5-10 minutes		
Tack Free Time	10-20 minutes		
Full Cure	24 hours		
Return to Service Time	12 hours		
Vertical Sag (ASTM D2202)	0.05"		
Typical Cured Performance Properties	5		
Service Temperature Range	-40°F to 350°F continuous use, up to 400°F intermittent use after full cure		
Water Ready Time	12 hours		
	Not paintable		



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Mildew Resistance		Cured sealant is mold & mildew resistant	
Dynamic Joint Movement (AST	M C719)	+/-25%	
			

CLEAN UP & STORAGE

Remove excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water. Store container in temperatures below 80°F and in a dry place.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling 888-DAP-TIPS.

WARRANTY

WARRANTY: If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS, with your sales receipt and product container available, for replacement product or sales price refund. DAP Products Inc. will not be responsible for incidental or consequential damages.

COMPANY IDENTIFICATION

Manufactured for: DAP Products Inc., 2400 Boston Street, Baltimore, Maryland 21224

Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-3339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com

SAFETY DATA SHEET

DA1684

ection 1. Identification

Product name

: DUPLI-COLOR® Acrylic Enamel Aerosol Paint

Chrome Aluminum

Product code

: DA1684

Other means of

: Not available.

identification

Product type

: Aerosol.

Relevant identified uses of the substance or mixture and uses advised against Paint or paint related material.

Manufacturer

: Dupli-Color Products Company

Cleveland, OH 44115

Emergency telephone number of the company : (216) 566-2917

Product Information

Telephone Number

: (800) 247-3270

Regulatory Information

: (216) 566-2902

Telephone Number

Transportation Emergency

: (800) 424-9300

Telephone Number

ection 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 21.2%

(oral), 21.2% (dermal), 21.2% (inhalation)

GHS label elements

Hazard pictograms









Signal word

: Danger

Date of issue/Date of revision

: 4/19/2021

Date of previous issue

: 10/12/2020

Version: 14

1/18

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DUPLI-COLOR® Acrylic Enamel Aerosol Paint

SHW-85-NA-GHS-US

DA1684

Chrome Aluminum

Section 2. Hazards identification

Hazard statements

: Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have \(\times \) been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Pressurized

container: Do not pierce or burn, even after use.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove ablaperson to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F. Store in a well-ventilated place. Keep container tightly closed.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

applemental label

elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise

: None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Ethylbenzene	≥25 - ≤43	100-41-4
Acetone	≥10 - ≤25	67-64-1
Propane	≥10 - ≤25	74-98-6
Butane	≥10 - ≤25	106-97-8
Aluminum	≤5	7429-90-5
Stoddard Solvent	≤3	8052-41-3
^{l Tal} uene	≤0.3	108-88-3

concentration shown as a range is to protect confidentiality or is due to batch variation.

Date of issue/Date of revision

: 4/19/2021

Date of previous issue

: 10/12/2020

Version : 14

2/18

DA1684

DUPLI-COLOR® Acrylic Enamel Aerosol Paint

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

supational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious. place in recovery position and get medical attention immediately. Maintain an open airway Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: No known significant effects or critical hazards.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following: pain or irritation

watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatique dizziness/vertigo unconsciousness reduced fetal weight

Date of issue/Date of revision

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Section 4. First aid measures

increase in fetal deaths

skeletal malformations

Skin contact

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

nsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits	
Ethylbenzene	100-41-4	ACGIH TLV (United St TWA: 20 ppm 8 hours NIOSH REL (United St TWA: 100 ppm 10 hou TWA: 435 mg/m³ 10 h STEL: 125 ppm 15 mi STEL: 545 mg/m³ 15 r OSHA PEL (United Sta TWA: 100 ppm 8 hour TWA: 435 mg/m³ 8 hour	tates, 10/2016). urs. ours. nutes. minutes. ates, 5/2018).
Acetone	67-64-1	ACGIH TLV (United St TWA: 250 ppm 8 hour STEL: 500 ppm 15 mi NIOSH REL (United St TWA: 250 ppm 10 hou TWA: 590 mg/m³ 10 h OSHA PEL (United Sta TWA: 1000 ppm 8 hou TWA: 2400 mg/m³ 8 hou	ates, 3/2020). s. outes. ates, 10/2016). irs. ours. ates, 5/2018).
Propane	74-98-6	NIOSH REL (United St TWA: 1000 ppm 10 ho TWA: 1800 mg/m³ 10 OSHA PEL (United Sta TWA: 1000 ppm 8 hou TWA: 1800 mg/m³ 8 h ACGIH TLV (United St Depletion [Asphyxiant	ates, 10/2016). burs. hours. ites, 5/2018). irs. ours. ates, 3/2020). Oxyge
Butane	. 106-97-8	NIOSH REL (United St TWA: 800 ppm 10 hou TWA: 1900 mg/m³ 10 ACGIH TLV (United St Explosive potential. STEL: 1000 ppm 15 m	ates, 10/2016). rs. hours. ates, 3/2020).
Aluminum	7429-90-5	NIOSH REL (United St TWA: 5 mg/m³ 10 hou fraction TWA: 10 mg/m³ 10 ho ACGIH TLV (United St TWA: 1 mg/m³ 8 hours fraction OSHA PEL (United Sta TWA: 5 mg/m³, (as Al) Respirable fraction TWA: 15 mg/m³, (as A dust	ates, 10/2016). rs. Form: Respirable urs. Form: Total ates, 3/2020). s. Form: Respirable utes, 5/2018). 8 hours. Form:

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Section 8. Exposure controls/personal protection

Stoddard Solvent	8052-41-3	ACGIH TLV (United States, 3/2020). TWA: 100 ppm 8 hours. TWA: 525 mg/m³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 350 mg/m³ 10 hours. CEIL: 1800 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018).
Toluene	108-88-3	TWA: 500 ppm 8 hours. TWA: 2900 mg/m³ 8 hours. OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2016).
		TWA: 100 ppm 10 hours. TWA: 375 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. ACGIH TLV (United States, 3/2020). TWA: 20 ppm 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m³ 8 hours. 15 min OEL: 543 mg/m³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 1/2020). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 434 mg/m³ 8 hours. STEV: 543 mg/m³ 15 minutes. STEV: 543 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
acetone	67-64-1	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 1/2020). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 500 ppm 8 hours.

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1/2020 Oxygen Depletion [Asphyxiant] Explosive potential.	ection 8. Exposure o	ontrols/personal prot	ection
Normal propane 74-98-6 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Ganada, 7/2019). TWAEV: 1000 ppm 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Oxygen Depletion [Asphyxiant]. Explosive potential. CA Ontario Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 800 ppm 8 hours. TWAEV: 800 ppm 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2019). Explosive potential. STEL: 1000 ppm 15 minutes. TWA: 1000 ppm 16 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes. CA Alberta Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes. CA Alberta Provincial (Canada, 6/2019). TWA: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2019). TWA: 100 ppm 8 hours. CA Ganada (Canada, 6/2019). TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar Provincial (Canada, 7/2019). TWAEV: 525 mg/m² 8 hours. CA Saskatchewar P	•		STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes.
Double D	Normal propane	74-98-6	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Oxygen Depletion [Asphyxiant].
STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 572 mg/m³ 8 hours. 8 hrs OEL: 572 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 290 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2019). TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2019). TWA: 100 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.	Butane	106-97-8	Oxygen Depletion [Asphyxiant]. Explosive potential. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada,
8 hrs OEL: 572 mg/m³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 290 mg/m³ 8 hours. STEL: 580 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 525 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. TOluene 108-88-3 CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.			STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential.
Toluene 108-88-3 CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.	Stoddard solvent	8052-41-3	8 hrs OEL: 572 mg/m³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 290 mg/m³ 8 hours. STEL: 580 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 525 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes.
1 8 hrs OEL: 50 ppm 8 hours.		, i	

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Section 8. Exposure controls/personal protection 8 hrs OEL: 188 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). Absorbed through skin

Absorbed through skin.

TWAEV: 50 ppm 8 hours.

TWAEV: 188 mg/m³ 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.

Occupational exposure limits (Mexico)

CAS#	Exposure limits
100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016).
67-64-1	TWA: 20 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.
74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016).
8052-41-3	TWA: 1000 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016).
108-88-3	TWA: 100 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
	100-41-4 67-64-1 74-98-6 106-97-8 8052-41-3

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

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Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.

Color : Not available. Odor Not available. Odor threshold : Not available.

Ηа

Iting point/freezing point : Not available. poiling point/boiling range : Not available.

Flash point : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

Evaporation rate : 5.6 (butyl acetate = 1)

Flammability (solid, gas) : Not available. Lower and upper explosive : Lower: 0.8% (flammable) limits Upper: 12.8%

Vapor pressure : 101.3 kPa (760 mm Hg) [at 20°C]

Vapor density : 1.55 [Air = 1]

Relative density : 0.74

Solubility : Not available. Partition coefficient: n-: Not available. octanol/water

Auto-ignition temperature

: Not available. Decomposition temperature : Not available.

Viscosity Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)

Molecular weight Not applicable.

Aerosol product

Type of aerosol : Spray Heat of combustion : 28.29 kJ/g

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Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

∩Lomical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame).

Incompatible materials

: No specific data.

Hazardous decomposition

products

: Under hormal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylbenzene Acetone Butane	LD50 Dermal LD50 Oral LD50 Oral LC50 Inhalation Vapor	Rabbit Rat Rat Rat	>5000 mg/kg 3500 mg/kg 5800 mg/kg 658000 mg/m³	- - - 4 hours
Toluene	LC50 Inhalation Vapor LD50 Oral	Rat Rat	49 g/m³ 636 mg/kg	4 hours

itation/Corrosion

∴roduct/ingredient name	Result	Species	Score	Exposure	Observation
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15]_
•			ı	mg	lı.
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
		1		mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	la			mg	
0. 1. 10 1 .	Skin - Mild irritant	Rabbit	-	395 mg	-
Stoddard Solvent	Eyes - Mild irritant	Human	-	100 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
Telesene				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	F			100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Old- Nation Code - 6			mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Claim Mailel imitement	D-1-1-7		uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Ckin Madanata initerat	D - 1-1-14		mg	
	Skin - Moderate irritant	Rabbit		500 mg	-

<u>sensitization</u>

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Section 11. Toxicological information Not available. **Mutagenicity** ot available. carcinogenicity Not available. Classification Product/ingredient name **OSHA** IARC NTP Ethylbenzene 2B Toluene 3 Reproductive toxicity Not available. **Teratogenicity** Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Acetone	Category 3	-	Respiratory tract irritation
	Category 3	İ	Narcotic effects
Propane	Category 3	-	Respiratory tract irritation
	Category 3	1	Narcotic effects
Butane	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Stoddard Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Toluene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	_	-
Acetone	Category 2	-	-
Propane	Category 2	_	-
Butane	Category 2	_	! -
Stoddard Solvent	Category 1	_	-
Toluene	Category 2	-	-

Aspiration hazard

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Section 11. Toxicological information

Name	Result	
Ethylbenzene	ASPIRATION HAZARD	Category 1
I propane	ASPIRATION HAZARD	Category 1
utane	ASPIRATION HAZARD	Category 1
ات loddard Solvent	ASPIRATION HAZARD	Category 1
Toluene	ASPIRATION HAZARD	- Category 1

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact : No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression. May be fatallif swallowed and

enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

⁻ffects

otential delayed effects

: Not available.

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Section 11. Toxicological information

Potential chronic health effects

Not available.

neral : Causes damage to organs through prolonged or repeated exposure.

: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects: No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value	
Oral Inhalation (vapors)	9185.31 mg/kg 28.87 mg/l	3

Section 12. Ecological information

T	o	X	Í	C	i	ť	۷
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Product/ingredient name	Result	Species	Exposure
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
<i>}</i>	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute L¢50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 7460000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
Aluminum	Acute LC50 38000 µg/l Fresh water	Daphnia - Daphnia magria	48 hours
	Acute LC50 120 μg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
Toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
<i>!</i>	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling,	48 hours

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Section 12. Ecological information

Acute LC50 5500 µg/l Fresh water Chronic NOEC 1000 ug/l Fresh water Weanling)

Fish - Oncorhynchus kisutch - Fry Daphnia - Daphnia magna

96 hours

21 days

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethylbenzene	-	-	Readily
Acetone	-	-	Readily
Toluene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	•
Environmental azards	No.	No.	No.	No.	No.

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			_		
Section 14.	Transport inf	ormation			
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-		Emergency schedules F-D, S- U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship unde the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.

Special precautions for user:

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according: Not available.

to IMO instruments

Proper shipping name

: Not available.

ection 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists

: Australia inventory (AIIC): Not determined. China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

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: 10/12/2020

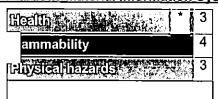
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DA1684 **DUPLI-COLOR® Acrylic Enamel Aerosol Paint** Chrome Aluminum

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Cla	assification		Justification
FLAMMABLE AEROSOLS - Category 1		On basis	of test data
GASES UNDER PRESSURE - Compre		Calculatio	n method
SERIOUS EYE DAMAGE/ EYE IRRITA	TION - Category 2A	Calculatio	n method
CARCINOGENICITY - Category 2		Calculatio	n method
TOXIC TO REPRODUCTION - Categor	y 2	Calculatio	n method
SPECIFIC TARGET ORGAN TOXICITY	(SINGLE EXPOSURE) (Respiratory tract	Calculatio	n method
irritation) - Category 3			
SPECIFIC TARGET ORGAN TOXICITY	(SINGLE EXPOSURE) (Narcotic effects) -	Calculatio	n method
Category 3			
	(REPEATED EXPOSURE) - Category 1	Calculatio	n method
ASPIRATION HAZARD - Category 1		Calculatio	n method
L			

story

Date of printing : 4/19/2021 Date of issue/Date of : 4/19/2021

revision

: 10/12/2020 Date of previous issue

Version

Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS + Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG # Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision

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: 10/12/2020

Version : 14

17/18

DUPLI-COLOR® Acrylic Enamel Aerosol Paint Chrome Aluminum

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate is of the effective date herein. However, no warranty, express or implied, is given. The information presented re applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buver/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

DAP® KWIK SEAL® Adhesive Caulk

PRODUCT DESCRIPTION

DAP® KWIK SEAL® KITCHEN & BATH ADHESIVE CAULK is an easy-to-use acrylic latex that bonds like a glue and seals like a caulk. Once cured, it is mold and mildew resistant and 100% waterproof. It is easy to apply, paintable, low in odor and water clean-up. Interior use.





		L .
PACKAGING	COLOR	UPC
10.1 fl oz (300 mL) Cartridge	White	7079818002
5.5 fl oz (162 mL) Tube	White	7079818001
5.5 fl oz (162 mL) Tube	Almond	7079818013

KEY FEATURES & BENEFITS

- Cured caulk is mold & mildew resistant
- 100% waterproof seal
- Bonds like glue, seals like a caulk
- Paintable
- Easy water clean-up & low odor
- VOC compliant
- Interior use

SUGGESTED USES

USE FOR CAULKING & SEALING:

- Tubs
- Showers
- Sinks
- Backsplashes
- Vanities

- Countertops
- Fixtures
- Pipes
- Repairing loose tiles

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ADHERES TO:

- Wood painted & unpainted
- Ceramic
- Porcelain
- Glass
- Most metals
- Most plastics

- Drywall
- Plaster
- Brick
- Stone
- Most common building materials

FOR BEST RESULTS

- Apply in temperatures above 40°F.
- Not for continuous underwater use, high temperature surfaces or surface defects.
- Joint size should not exceed 3/8" wide x 3/8" deep. If joint depth exceeds 3/8", use backer rod material.
- Wait 36 hours before exposing to water.
- Store caulk away from extreme heat or cold.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of all old caulk, dirt and other foreign material. Rubbing alcohol /Isopropyl alcohol is recommended for removing soap film and soil.

Product Application

- 1. If using the squeeze tube, remove cap.
- 2. Cut nozzle at 45° angle to desired bead size.
- 3. If using the cartridge, load into caulk gun.
- 4. Fill gap or joint with caulk.
- 5. If necessary, tool or smooth the bead of caulk with a finishing tool before caulk skins over.
- 6. Clean up excess wet caulk with a damp sponge before it skins over. Excess dried caulk must be cut or scraped away. Clean hands and tools with warm water and soap.
- 7. Allow caulk to dry at least 2 hours (longer in cool or humid conditions) before painting with latex or oil-based paints.
- 8. Wait 36 hours before exposing to water.
- 9. Reseal container for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Pr	pperties			
Appearance/Consistency	Gunnable, non-sag paste	 	-	
Base Polymer	Acrylic latex copolymer			

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Filler	Calcium carbonate	
Volatile	Water	
Weight % Solids	81%	
Density (lbs per gallon)	13.9	
Odor	Very mild	
Clean Up	Water	
Flash Point	>212°F	
Freeze Thaw Stability (ASTM C1183)	Passes 5 Cycles	
Shelf Life	12 months	
Coverage	10.1 fl oz: 55 linear feet at a 3/16"diameter bead	
	5.5 fl oz: 30 linear feet at 3/16" diameter bead	
Typical Application Properties	i	
Application Temperature Range	40°F to 100°F	
Tooling Time (Working Time)	10 minutes	
Tack Free Time	30 minutes	
Full Dry Through	36 hours	
Return to Service Time	36 hours	
Vertical Sag (ASTM D2202)	0.05"	
	 	
Typical Cured Performance Properties		
Service Temperature Range	-20°F to 150°F	
Water Ready Time	36 hours	
Paint Ready Time	2 hours	
Mildew Resistance	Cured caulk is mold & mildew resistant	

CLEAN UP & STORAGE

Clean up excess wet caulk with a damp sponge before it skins over. Excess dried caulk must be cut or scraped away. Clean hands and tools with warm water and soap. Store container in a cool, dry place away from extreme heat or cold.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling 888-DAP-TIPS.



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WARRANTY

WARRANTY: If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS, with your sales receipt and product container available, for replacement product or sales price refund. DAP Products Inc. will not be responsible for incidental or consequential damages.

COMPANY IDENTIFICATION

Manufacturer: DAP Products Inc., 2400 Boston Street, Baltimore, Maryland 21224

Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-3339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

DAP® 100% Silicone Rubber Window, Door & Siding Sealant

PRODUCT DESCRIPTION

DAP® 100% SILICONE RUBBER WINDOW, DOOR & SIDING SEALANT is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



PACKAGING	COLOR	UPC
2.8 fl oz (82.8 mL)	White	7079800752
2.8 fl oz (82.8 mL)	Clear	7079800753
9.8 fl oz (289 mL)	White	7079808646
9.8 fl oz (289 mL)	Clear	7079808641
9.8 fl oz (289 mL)	Almond	7079808649
9.8 fl oz (289 mL)	Aluminum	7079808643
9.8 fl oz (289 mL)	Bronze	7079808647
9.8 fl oz (289 mL)	Black	7079808642

KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920 requirements for Class 25, Use G
- 100% waterproof & weatherproof seal
- Flexible
- Cured sealant is mold & mildew resistant
- Interior/exterior use



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SUGGESTED USES

USE FOR CAULKING & SEALING:

- Windows
- Doors
- Siding
- Trim
- Pipes

- Vents
- Ducts
- Gutters
- Flashing

ADHERES TO:

- Wood
- Composite wood
- Aluminum
- Most metals*
- Glass

- Ceramic
- Porcelain
- Vinyl
- Most plastics & rubbers
- Most rubbers

FOR BEST RESULTS

- Apply when surface temperatures are between -35°F to 140°F.
- Joint width should not exceed ½". If joint depth exceeds ½", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
- Not for oily woods or cementitious surfaces. Substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene do not allow for best adhesion and compatibility with sealant. Try test area before using.
- Not paintable. Paint substrate surface before applying sealant.
- Store below 80°F in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of old caulk, dirt, dust & other foreign material.

Product Application

- 1. If using squeeze tube, remove cap & cut nozzle at 45° angle to desired bead size. Unscrew nozzle & remove foil seal. Replace nozzle.
- 2. Is using cartridge, cut nozzle at a 45° angle to desired bead size. Puncture inner foil seal. Load into caulk gun.
- 3. Fill gap or crack with sealant.
- 4. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
- 5. Allow sealant to cure for at least 12 hours before exposing to water.



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- 6. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours.
- 7. Clean up excess uncured sealant from surface and tools with mineral spirits. Scrape or cut away excess cured sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
- 8. Sealant is not paintable. Paint surfaces prior to applying sealant.
- 9. Reseal cartridge/tube for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Properties		
Appearance/Consistency	Smooth, gunnable paste	
Base Polymer	Silicone rubber	
Filler	Not applicable	
Volatile	Not applicable	
Weight % Solids	>97%	
Density (lbs per gallon)	, 8.0	
Odor	Vinegar like	
Clean Up	Mineral spirits	
Flash Point	>212°F	
Freeze Thaw Stability (ASTM C1183)	Will not freeze	
Shelf Life	24 months	
Coverage	9.8 oz: 53 linear feet at 3/16" diameter bead 2.8 oz: 15 linear feet at 3/16" diameter bead	
Typical Application Properties		
Application Temperature Range	-35°F to 140°F	
Tooling Time (Working Time)	5-10 minutes	
Tack Free Time	10-20 minutes	
Full Cure	24 hours	
Return to Service Time	12 hours	
Vertical Sag (ASTM D2202)	0.05"	
Typical Cured Performance Propertie	s	
Service Temperature Range	-40°F to 350°F continuous use, up to 400°F intermittent use after full cure	
Water Ready Time	12 hours	
Paint Ready Time	Not paintable	

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Mildew Resistance	Cured sealant is mold & mildew resistant	
Dynamic Joint Movement (ASTM C719)	+/-25%	

CLEAN UP & STORAGE

Remove excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water. Store container in temperatures below 80°F and in a dry place.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap:com or calling 888-DAP-TIPS.

WARRANTY

WARRANTY: If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS, with your sales receipt and product container available, for replacement product or sales price refund. DAP Products Inc. will not be responsible for incidental or consequential damages.

COMPANY IDENTIFICATION

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Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-3339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com



DAP® 100% Silicone Rubber Window, Door & Siding Sealant

PRODUCT DESCRIPTION

DAP® 100% SILICONE RUBBER WINDOW, DOOR & SIDING SEALANT is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



PACKAGING	COLOR	UPC
2.8 fl oz (82.8 mL)	White	7079800752
2.8 fl oz (82.8 mL)	Clear	7079800753
9.8 fl oz (289 mL)	White	7079808646
9.8 fl oz (289 mL)	Clear	7079808641
9.8 fl oz (289 mL)	Almond	7079808649
9.8 fl oz (289 mL)	Aluminum	7079808643
9.8 fl oz (289 mL)	Bronze	7079808647
9.8 fl oz (289 mL)	Black	7079808642

KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920 requirements for Class 25, Use G
- 100% waterproof & weatherproof seal
- Flexible
- Cured sealant is mold & mildew resistant
- Interior/exterior use



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

SUGGESTED USES

USE FOR CAULKING & SEALING:

- Windows
- Doors
- Siding
- Trim
- Pipes

- Vents
- Ducts
- Gutters
- Flashing

ADHERES TO:

- Wood
- · Composite wood
- Aluminum
- Most metals*
- Glass

- Ceramic
- Porcelain
- Vinyl
- Most plastics & rubbers
- Most rubbers

FOR BEST RESULTS

- Apply when surface temperatures are between -35°F to 140°F.
- Joint width should not exceed ½". If joint depth exceeds ½", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
- Not for oily woods or cementitious surfaces. Substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene do not allow for best adhesion and compatibility with sealant. Try test area before using.
- Not paintable. Paint substrate surface before applying sealant.
- Store below 80°F in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of old caulk, dirt, dust & other foreign material.

Product Application

- 1. If using squeeze tube, remove cap & cut nozzle at 45° angle to desired bead size. Unscrew nozzle & remove foil seal. Replace nozzle.
- 2. Is using cartridge, cut nozzle at a 45° angle to desired bead size. Puncture inner foil seal. Load into caulk gun.
- 3. Fill gap or crack with sealant.
- 4. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
- 5. Allow sealant to cure for at least 12 hours before exposing to water.



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- 6. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours.
- 7. Clean up excess uncured sealant from surface and tools with mineral spirits. Scrape or cut away excess cured sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
- 8. Sealant is not paintable. Paint surfaces prior to applying sealant.
- 9. Reseal cartridge/tube for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Properties		
Appearance/Consistency	Smooth, gunnable paste	
Base Polymer	Silicone rubber	
Filler	Not applicable	
Volatile	Not applicable	
Weight % Solids	>97%	
Density (lbs per gallon)	8.0	
Odor	Vinegar like	
Clean Up	Mineral spirits	
Flash Point	>212°F	
Freeze Thaw Stability (ASTM C1183)	Will not freeze	
Shelf Life	24 months	
Coverage	9.8 oz: 53 linear feet at 3/16" diameter bead 2.8 oz: 15 linear feet at 3/16" diameter bead	
Typical Application Properties		
Application Temperature Range	-35°F to 140°F	
Tooling Time (Working Time)	5-10 minutes	
Tack Free Time	10-20 minutes	
Full Cure	24 hours	
Return to Service Time	12 hours	
Vertical Sag (ASTM D2202)	0.05"	
Typical Cured Performance Properties		
Service Temperature Range	-40°F to 350°F continuous use, up to 400°F intermittent use after full cure	
Water Ready Time	12 hours	
Paint Ready Time	Not paintable	

3/3/2019



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

Mildew Resistance	Cured sealant is mold & mildew resistant	
Dynamic Joint Movement (ASTM C719)	+/-25%	

CLEAN UP & STORAGE

Remove excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water. Store container in temperatures below 80°F and in a dry place.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling 888-DAP-TIPS.

WARRANTY

WARRANTY: If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS, with your sales receipt and product container available, for replacement product or sales price refund. DAP Products Inc. will not be responsible for incidental or consequential damages.

COMPANY IDENTIFICATION

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Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-\$339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

DAP® 100% Silicone Rubber Window, Door & Siding Sealant

PRODUCT DESCRIPTION

DAP® 100% SILICONE RUBBER WINDOW, DOOR & SIDING SEALANT is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



		ļ
PACKAGING	COLOR	UPC
2.8 fl oz (82.8 mL)	White	7079800752
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9.8 fl oz (289 mL)	White	7079808646
9.8 fl oz (289 mL)	Clear	7079808641
9.8 fl oz (289 mL)	Almond	7079808649
9.8 fl oz (289 mL)	Aluminum	7079808643
9.8 fl oz (289 mL)	Bronze	7079808647
9.8 fl oz (289 mL)	Black	7079808642
		1 1

KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920 requirements for Class 25, Use G
- 100% waterproof & weatherproof seal
- Flexible
- Cured sealant is mold & mildew resistant
- Interior/exterior use



2400 Boston Street Suite 200 | Baltimore, MD | 21224

SUGGESTED USES

USE FOR CAULKING & SEALING:

- Windows
- Doors
- Siding
- Trim
- Pipes

- Vents
- Ducts
- Gutters
- Flashing

ADHERES TO:

- Wood
- Composite wood
- Aluminum
- Most metals*
- Glass

- Ceramic
- Porcelain
- Vinyl
- Most plastics & rubbers
- Most rubbers

FOR BEST RESULTS

- Apply when surface temperatures are between -35°F to 140°F.
- Joint width should not exceed ½". If joint depth exceeds ½", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
- Not for oily woods or cementitious surfaces. Substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene do not allow for best adhesion and compatibility with sealant. Try test area before using.
- Not paintable. Paint substrate surface before applying sealant.
- Store below 80°F in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of old caulk, dirt, dust & other foreign material.

Product Application

- If using squeeze tube, remove cap & cut nozzle at 45° angle to desired bead size. Unscrew nozzle & remove foil seal. Replace nozzle.
- 2. Is using cartridge, cut nozzle at a 45° angle to desired bead size. Puncture inner foil seal. Load into caulk gun.
- 3. Fill gap or crack with sealant.
- 4. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
- 5. Allow sealant to cure for at least 12 hours before exposing to water.



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6. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours.

- 7. Clean up excess uncured sealant from surface and tools with mineral spirits. Scrape or cut away excess cured sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
- 8. Sealant is not paintable. Paint surfaces prior to applying sealant.
- 9. Reseal cartridge/tube for storage and reuse.

I YPICAL I	PHYSICAL	_ & CHEMI	CAL PRO	PERT	IES

Typical Uncured Physical Properties	
Appearance/Consistency	Smooth, gunnable paste
Base Polymer	Silicone rubber
Filler	Not applicable
Volatile	Not applicable
Weight % Solids	>97%
Density (lbs per galion)	8.0
Odor	Vinegar like
Clean Up	Mineral spirits
Flash Point	->212°F
Freeze Thaw Stability (ASTM C1183)	Will not freeze
Shelf Life	24 months
Coverage	9.8 oz: 53 linear feet at 3/16" diameter bead
	2.8 oz: 15 linear feet at 3/16" diameter bead
Typical Application Dec. (*	
Typical Application Properties	
Application Temperature Range	-35°F to 140°F
Tooling Time (Working Time)	5-10 minutes
Tack Free Time	10-20 minutes
Full Cure	24 hours
Return to Service Time	12 hours
	12 110013
	0.05"
Vertical Sag (ASTM D2202)	
Vertical Sag (ASTM D2202) Typical Cured Performance Properties	-40°F to 350°F continuous use, up to 400°F intermittent
Vertical Sag (ASTM D2202) Typical Cured Performance Properties Service Temperature Range Water Ready Time	0.05"



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Mildew Resistance	Cured sealant is mold & mildew resistant	
Dynamic Joint Movement (ASTM C719	9) +/-25%	

CLEAN UP & STORAGE

Remove excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water. Store container in temperatures below 80°F and in a dry place.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling 888-DAP-TIPS.

WARRANTY

WARRANTY: If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS, with your sales price refund. DAP Products Inc. will not be responsible for incidental or consequential damages.

COMPANY IDENTIFICATION

Manufactured for: DAP Products Inc., 2400 Boston Street, Baltimore, Maryland 21224

Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-3339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com



2400 Boston Street |Suite 200 | Baltimore, MD | 21224

DAP[®] 100% Silicone Rubber Window, Door & Siding Sealant

PRODUCT DESCRIPTION

DAP® 100% SILICONE RUBBER WINDOW, DOOR & SIDING SEALANT is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



		
PACKAGING	COLOR	UPC
2.8 fl oz (82.8 mL)	White	7079800752
2.8 fl oz (82.8 mL)	Clear	7079800753
9.8 fl oz (289 mL)	White	7079808646
9.8 fl oz (289 mL)	Clear	7079808641
9.8 fl oz (289 mL)	Aimond	7079808649
9.8 fl oz (289 mL)	Aluminum	7079808643
9.8 fl oz (289 mL)	Bronze	7079808647
9.8 fl oz (289 mL)	Black	7079808642
	·	I

KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920 requirements for Class 25, Use G
- 100% waterproof & weatherproof seal
- Flexible
- Cured sealant is mold & mildew resistant
- Interior/exterior use



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SUGGESTED USES

USE FOR CAULKING & SEALING:

- Windows
- Doors
- Sidina
- Trim
- Pipes

- Vents
- Ducts
- Gutters
- Flashing

ADHERES TO:

- Wood
- Composite wood
- Aluminum
- Most metals*
- Glass

- Ceramic
- Porcelain
- Vinyl
- Most plastics & rubbers
- Most rubbers

FOR BEST RESULTS

- Apply when surface temperatures are between -35°F to 140°F.
- Joint width should not exceed ½". If joint depth exceeds ½", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
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APPLICATION

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3/3/2019

TECHNICAL DATA SHEET

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- 9. Reseal cartridge/tube for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Properties		
Appearance/Consistency	Smooth, gunnable paste	
Base Polymer	Silicone rubber	
Filler	Not applicable	
Volatile	Not applicable	
Weight % Solids	>97%	
Density (lbs per gallon)	8.0	
Odor	Vinegar like	
Clean Up	Mineral spirits	
Flash Point	>212°F	
Freeze Thaw Stability (ASTM C1183)	, Will not freeze	
Shelf Life	24 months	
Coverage	9.8 oz: 53 linear feet at 3/16" diameter bead	
	2.8 oz: 15 linear feet at 3/16" diameter bead	
Typical Application Properties	2.8 oz: 15 linear feet at 3/16" diameter bead	
Application Temperature Range	2.8 oz: 15 linear feet at 3/16" diameter bead	
Application Temperature Range Tooling Time (Working Time)		
Application Temperature Range	-35°F to 140°F	
Application Temperature Range Tooling Time (Working Time)	-35°F to 140°F 5-10 minutes	
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Application Temperature Range Tooling Time (Working Time) Tack Free Time Full Cure Return to Service Time	-35°F to 140°F 5-10 minutes 10-20 minutes 24 hours 12 hours 0.05"	
Application Temperature Range Tooling Time (Working Time) Tack Free Time Full Cure Return to Service Time Vertical Sag (ASTM D2202) Typical Cured Performance Properties Service Temperature Range	-35°F to 140°F 5-10 minutes 10-20 minutes 24 hours 12 hours 0.05"	
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Mildew Resistance	Cured sealant is mold & mildew resistant
Dynamic Joint Movement (ASTM C719)	

CLEAN UP & STORAGE

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SUGGESTED USES

USE FOR CAULKING & SEALING:

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Vertical Sag (ASTM D2202)	0.05"
Vertical Sag (ASTM D2202)	0.05"
Vertical Sag (ASTM D2202) Typical Cured Performance Propert	ies -40°F to 350°F continuous use, up to 400°F intermittent
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		İ
Mildew Resistance	Cured sealant is mold & mildew resistant	}
Dynamic Joint Movement (ASTM C719)	+/-25%	

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An AIRXCEL Brand

Safety Data Sheet acc. to OSHA HCS

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

1 Identification

- · Product identifier
- · Trade name: 551LSB
- · Article number: 551LSB
- · Relevant identified uses of the substance or mixture. Industrial Use Only.
- · Application of the substance / the mixture

Sealant Adhesive

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dicor Products, an Airxcel brand

2965 Lavanture Place

Elkhart, IN 46514

Information Phone Number: 574-264-2699

- · Information department: Global Regulatory Department.
- · Emergency telephone number:

ChemTrec: Day or Night within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS07

· Signal word Danger

(Contd. on page 2)

Trade name: 551LSB

Revision Number 4

Revision Date 06/28/2021

(Contd. of page 1) · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: 6 % of the mixture consists of component(s) of unknown toxicity. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1Fire = 3PHYSICAL HAZARD 1 Physical Hazard = 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information	on ingredients		
· Chemical characterization: M	ixtures		
· Description: Mixture			(Contd. on page 3)

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB	
· Hazardous components:	(Contd. of page 2)
64742-49-0 Naphtha (petroleum), hydrotreated light, low boil	25-50%
13463-67-7 titanium dioxide	2.5-10%

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

· Advice for firefigliters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid contact with skin and eyes.

Open and handle receptacle with care.

(Contd. on page 4)



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Revision Number 4

Revision Date 06/28/2021

(Contd. of page 3)

Trade name: 551LSB

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep container closed when not in use.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m3

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment (see listings below)
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB	
Eye protection: Safety glasses with side shields. Tightly sealed goggles	(Contd. of page 4)
· Body protection: Protective work clothing	

Information on basic physical and	chemical properties	
General Information	F. of control	
Appearance:		
Form:	Paste	
Color:	Black	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point:	Undetermined.	
Boiling point:	118-150 °C (244.4-302 °F)	
Flash point:	14-18 °C (57.2-64.4 °F)	
Flammability (solid, gaseous):	Not Applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	_
Danger of explosion:	Product is not explosive. However, formation of explosive air mixtures are possible.	/vapor
Flammable limits:		
Lower:	Not Available	
Upper:	Not Available	
Vapor pressure:	Not determined.	
Specific gravity:	1.17	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	Not available	

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB		
		(Contd. of page 5)
Solids content:	66.4 %	
· Other information	VOC: = 3.10 lb/gal OR 372 GRAMS/L Weight per gallon: = 9.23 LBS/gal	

10 Stability and reactivity

- · Reactivity Not reactive as supplied
- · Chemical stability Stable under recommended storage conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Strong oxidizers, acids and bases.
- · Conditions to avoid Heat, flames, sparks.
- · Incompatible materials:

Reacts with oxidizing agents.

Reacts with acids.

Reacts with alkalis (bases)

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Skin irritant.
- · on the eye:

May irritate the eye.

Vapors may be irritating to the eyes.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

IARC (International Agency for Research on Cancer)	
14807-96-6 Talc (Mg3H2(SiO3)4)	13
13463-67-7 titanium dioxide	21
NTP (National Toxicology Program)	
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

(Contd. on page 7)

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB

Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes: At present there are no ecotoxicological assessments.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Comply with current regulations.
- · Uncleaned packagings:
- · Recommendation: Comply with current regulations.

14 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1133	
· UN proper shipping name · DOT · IMDG · IATA	Adhesives ADHESIVES (Naphtha), MARINE POLLUTANT ADHESIVES	
· Transport hazard class(es) · DOT		
· Class · Label	3 Flammable liquids 3	
· IMDG		
· Class · Label	3 Flammable liquids 3	
IATA		-
· Class	3 Flammable liquids	
	(Contd. on pa	gc 8

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB		
		(Contd. of page 7)
· Label	3	
· Packing group · DOT, IMDG, IATA	II	
· Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous subs Yes (DOT) Symbol (fish and tree) Symbol (fish and tree)	tances: Naphtha
· Special precautions for user · Hazard identification number (K · EMS Number: · Stowage Category	Warning: Flammable liquids emler code): 33 F-E,S-D B	
· Transport in bulk according to A MARPOL73/78 and the IBC Cod	nnex II of le Not applicable.	
· Transport/Additional information	Based on our review of the physical properties of Dicor Products has determined that this material of reclassified as UN1133, Adhesives, 3, PGIII, when containers of less than 30 L (7.9 US GAL). The appropriate for this reclassification are 49 CFR § 173.121(b) shipments, IATA DG code § 3.3.3.1 for internation shipments, and IMDG code § 2.3.2.3 for internation shipments.	an be shipped in olicable statutes for US ground al air
·DOT		
· Remarks:	Special marking with the symbol (fish and tree).	

·Sara	tal regulations/legislation specific for the substance or mixture	
· Section 355 (extremely hazardo	us substances):	
None of the ingredients is listed.		
· Section 313 (Specific toxic cher	nical listings):	
None of the ingredients is listed.		
· TSCA (Toxic Substances Contr	ol Act):	
All components of this product of	re on the TSCA Inventory or are exempt from TSCA Inventory red	uirements.
· Hazardous Air Pollutants		
None of the ingredients is listed		
574-264-2699. · (DSL) Canada Dosmestic Subsi		
All components of this product a requirements.	re on the DSL(Canada Domestic Substance list) or are exempt fro	m DSL
•	<u> </u>	
· Cancerogenity categories		

Printing Date 10/12/2021

Revision Number 4

Revision Date 06/28/2021

Trade name: 551LSB	
	(Contd. of page 8)
· TLV (Threshold Limit Value)	
14807-96-6 Talc (Mg3H2(SiO3)4)	A4
13463-67-7 titanium dioxide	A4
· MAK (German Maximum Workplace Concentration)	
14807-96-6 Talc (Mg3H2(SiO3)4)	3B
13463-67-7 titanium dioxide	3A
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7 titanium dioxide	
· National regulations:	
· Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Dicor Products makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Dicor Products or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- · Department issuing SDS:
- Global Regulatory Department.
- · Creation Date: 06/28/2021
- · Contact:

Please contact Dicor Products for more information regarding Proposition 65 on this product: 574-264-2699.

- · Date of preparation / last revision 10/12/2021 / 3
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value

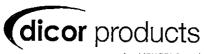
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1





An AIRXCEL Brand

Safety Data Sheet acc. to OSHA HCS

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

1 Identification

- · Product identifier
- · Trade name: 501LST, 502LST
- · Article number: 501LST, 502L\$T
- Relevant identified uses of the substance or mixture. Industrial Use Only.
- · Application of the substance / the mixture

Adhesive Sealant

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dicor Products, an Airxcel brand

2965 Lavanture Place

Elkhart, IN 46514

Information Phone Number: 574-264-2699

- · Information department: Global Regulatory Department.
- · Emergency telephone number: Chem Trec: 1-800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS08

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor.

(Contd. on page 2)

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

Trade name: 501LST, 502LST (Contd. of page 1) Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place, Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) 1 Health = 1 3 Fire = 3PHYSICAL HAZARD O Physical Hazard = 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients	
· Chemical characterization: Mixtures · Description: Mixture	
· Hazardous components:	
	25-50%
64742-49-0 Naphtha (petroleum), hydrotreated light, low boil 13463-67-7 titanium dioxide	23-30%

(Contd. on page 3)

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

Trade name: 501LST, 502LST

(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin becomes irritated seek medical attention.

· After eye contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

· Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid contact with skin and eyes.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

(Contd. on page 4)

Printing Date 10/12/2021

Revision Number 16

	Revision Number 10	Revision Date 07/22/2021
Trade name: 501LST, 502LST		
· Information about protection a Keep ignition sources away - Do Keep container closed when not	not smoke.	(Contd. of page 3)
Information about storage in on	luding any incompatibilities rooms and receptacles: Store in a cool location awa te common storage facility: Store away from oxidizing tge conditions: Keep receptacle tightly sealed.	y from direct heat. ng agents.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended

At this time, the remaining constituent has no known exposure limits.

· Specific end use(s) No further relevant information available.

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment (see listings below)
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Printing Date 10/12/2021

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Revision Date 07/22/2021

Trade name: 501LST, 502LST

• Eye protection:
Safety glasses with side shields.

Tightly sealed goggles
• Body protection: Protective work clothing

T. C		
Information on basic physical and	chemical properties	
· General Information		
- Appearance:	Durate	
Form:	Paste	
Color:	Tan	
· Odor:	Characteristic	
· Odor threshold:	Not Available.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point:	Undetermined.	
Boiling point:	190 °C (374 °F)	
· Flash point:	14-18 °C (57.2-64.4 °F)	
· Flammability (solid, gaseous):	Not Applicable.	
· Ignition temperature:	Not Available	
· Decomposition temperature:	Not Available.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/mixtures are possible.	vapor
77		
· Flammable limits:	Mad Assettable	
Lower:	Not Available	
Upper:	Not Available	
· Vapor pressure:	Not Available	
· Specific gravity at 20 °C (68 °F):	1.18 g/cm³ (9.8471 lbs/gal)	
· Relative density	Not Available.	
· Vapor density	Not Available.	
· Evaporation rate	Not Available.	
· Solubility in / Miscibility with		
Water:	Not Available.	
· Partition coefficient (n-octanol/wa	nter): Not determined.	
· Viscosity:		
Dynamic:	Not Available	
Kinematic:	Not Available	
· Solvent content:		
Organic solvents:	Not available	

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

Trade name: 501LST, 502LST		
Solids content:	66.9 %	(Contd. of page 5)
· Other information	VOC - 389 GRAMS/L Lbs/Gal - 9.8	

10 Stability and reactivity

- · Reactivity Not reactive as supplied
- · Chemical stability Stable under recommended storage conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No further information is available.
- · Conditions to avoid Heat, flames, sparks.
- · Incompatible materials: Reacts with oxidizing agents.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrocarbons

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Skin irritant.
- · on the eye;

May irritate the eye.

Vapors may be irritating to the eyes.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
13463-67-7 titanium dioxide	2B
NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.

(Contd. on page 7)

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

Trade name: 501LST, 502LST (Contd. of page 6) · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · Other adverse effects No further relevant information available. 13 Disposal considerations · Waste treatment methods · Recommendation: Comply with current regulations. · Uncleaned packagings: · Recommendation: Comply with current regulations. 14 Transport information · UN-Number · DOT, IMDG, IATA UN1133 · UN proper shipping name $\cdot DOT$ Adhesives ·IMDG ADHESIVES (Naphtha), MARINE POLLUTANT ·IATA **ADHESIVES** · Transport hazard class(es) $\cdot DOT$ · Class 3 Flammable liquids ·Label ·IMDG · Class 3 Flammable liquids · Label ·IATA · Class 3 Flammable liquids ·Label · Packing group · DOT, IMDG, IATA · Environmental hazards: Product contains environmentally hazardous substances: Naphtha (Contd. on page 8)

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

ade name: 501LST, 502LST	
	(Contd. of page
· Marine pollutant:	Yes (DOT)
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler co	ode): 33
· EMS Number:	F-E,S-D
· Stowage Category	В
Transport in bulk according to Annex II	of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Based on our review of the physical properties of this adhesive, Dicor Products has determined that this material can be reclassified as UN1133, Adhesives, 3, PGIII, when shipped in containers of less than 30 L (7.9 US GAL). The applicable statute for this reclassification are 49 CFR § 173.121(b) for US ground shipments, IATA DG code § 3.3.3.1 for international air shipments, and IMDG code § 2.3.2.3 for international sea shipments.
· DOT	
· Remarks:	Special marking with the symbol (fish and tree).

5 Regulatory information · Safety, health and environmen · Sara	tal regulations/legislation specific for the substance or mixture	
· Section 355 (extremely hazard	pus substances):	
None of the ingredients is listed	,	
Section 313 (Specific toxic che	mical listings):	
None of the ingredients is listed	!.	 -
· TSCA (Toxic Substances Cont	rol Act):	
	are on the TSCA Inventory or are exempt from TSCA Inventory r	eauirements.
· Hazardous Air Pollutants		
None of the ingredients is listed	1.	<u> </u>
574-264-2699, · (DSL) Canada Dosmestic Subs	for more information regarding Proposition 65 on this product: stance List are on the DSL(Canada Domestic Substance list) or are exempt fi	om DSL
· Cancerogenity categories		
· EPA (Environmental Protection		_
None of the ingredients is listed		
· TLV (Threshold Limit Value)		
13463-67-7 titanium dioxide		
· MAK (German Maximum Wor	kplace Concentration)	
13463-67-7 titanium dioxide		
		(Contd. on pag

Printing Date 10/12/2021

Revision Number 16

Revision Date 07/22/2021

Trade name: 501LST, 502LST	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	(Contd. of page 8)
13463-67-7 titanium dioxide Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Dicor Products makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Dicor Products or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS

· Department issuing SDS:

Global Regulatory Department.

- · Creation Date: 07/22/2021
- · Contact:

Please contact Dicor Products for more information regarding Proposition 65 on this product: 574-264-2699.

- · Date of preparation / last revision 10/12/2021 / 15
- · Abbreviations and acronyms:

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1



Safety Data Sheet

24 Hour Emergency Phone Numbers Medical/Poison Control:

In U.S.: Call 1-800-222-1222

Outside U.S.: Call your local poison control center

Transportation/National Response Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this SDS are further described in Section 16.

1. Identification

Product UPC Number:

Product Name:

DYNAFLEX 800 Advanced All Weather

Sealant Colors

070798808003

anufacturer:

DAP Global Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non - emergency matters)

SDS Coordinator: MSDS@dap.com

Emergency Telephone:

Transportation: 1-800-535 -5053

1-352-323-3500

Poison Control: 1-800-222-1222

Revision Date: 4/12/2022

Supercedes Date:

12/29/2021

Product Use/Class:

Caulking Compound

SDS No:

1008301

Preparer:

Regulatory and Environmental

Affairs

2. Hazards Identification

EMERGENCY OVERVIEW: Under normal use conditions, this product is not expected to cause adverse health effects. High concentration of vapors may cause irritation to eyes and respiratory system.

GHS Classification Skin Sens. 1

Symbol(s) of Product



Signal Word arning

Possible Hazards

32% of the mixture consists of ingredients of unknown acute toxicity

SDS Number: 1008301

SAP Number:

Revision Date: 4/12/2022

GHS HAZARD STATEMENTS

Skin Sensitizer, category 1

H317

May cause an allergic skin reaction.

GHS LABEL PRECAUTIONARY STATEMENTS

.261

Avoid breathing dust/fume/gas/mist/vapours/spray.

272 P280

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

P321

Specific treatment (see ... on this label).

P333+P313

P302+P352

If skin irritation or rash occurs: Get medical advice/attention.

P501

Dispose of contents/container.

GHS SDS PRECAUTIONARY STATEMENTS

P363

Wash contaminated clothing before reuse.

3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. % GH	IS Symbols	GHS Statements
Limestone	1317-65-3	10-30 No	Information	No Information
1,2-Benzenedicarboxylic acid, di-C9-C11-branched	68515-49-1	10-30 GH	1 S07	H332
Trimethoxyvinylsilane	2768-02-7	1-5 GH	1S07	H317-332
Organosilane Ester	2768-02-7	0.1-1.0 GH	IS07	H317-332

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

FIRST AID - INHALATION: Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

IRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: No special protective measures against fire required.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Spray or Fog

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDRENIDO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling. Remove contact lenses before using. Do not handle contact lenses until all sealant has been cleaned from fingertips, nails and cuticles. Residual sealant may transfer to contact lenses and cause severe eye irritation.

STORAGE: Avoid excessive heat and freezing. Do not store at temperatures above 120 °F (49 °C). Store away from caustics and oxidizers.

8. Exposure Controls/Personal Protection

ingredients with Occupational Exposure Limits

hemical Name

ACGIH TLV-TWA

ACGIH-TLV STEL

OSHA PEL-TWA

OSHA PEL-CEILING

SDS Number: 1008301 Revision Date: 4/12/2022 SAP Number: Limestone Ń.E. N.E. 15 mg/m3 TWA N.E. total dust, 5 mg/m3 TWA respirable fraction ,2-Benzenedicarboxylic acid, di-C9-C11- N.E. N.E. N.E. N.E. ranched

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

N.E.

N.F.

N.E.

N.E.

Paste

Not Established

Not Applicable

Not Established

Not Established

Not Established

Not Established

Seta Closed Cup

Non-Flammable

N.E. - N.E.

N.E.

N.E.

Personal Protection

Trimethoxyviny!silane

Organosilane Ester



RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required.



SKIN PROTECTION: Wear nitrile or neoprene gloves.



EYE PROTECTION: Goggles or safety glasses with side shields.

Ν.E.



OTHER PROTECTIVE EQUIPMENT: Not required under normal use.



HYGIENIC PRACTICES: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Flammability, NFPA:

9. Physical and Chemical Properties

Appearance: White to Off-White Physical State: Odor: Slight Odor Threshold: Density, g/cm3: 1.54 - 1.54 pH: Freeze Point. °C: Not Established

Viscosity (mPa.s): Solubility in Water. Not Established Partition Coeff., n-octanol/water:

Decomposition Temperature, °C: Not Established Explosive Limits. %: Boiling Range, °C: 100 - 100 Auto-Ignition Temperature, °C

Minimum Flash Point, °C: 100 Vapor Pressure, mmHg: **Evaporation Rate:** Slower Than n-Butyl Acetate Flash Method:

Vapor Density: Heavier Than Air

Combustible Dust: Does not support combustion

(See "Other information" Section for abbreviation legend) (If product is an aerosol, the flash point stated above is that of the propellant.)

10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Excessive heat and freezing.

ICOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Under normal use conditions, this product is not expected to cause adverse health effects. During application and cure, this product releases methanol. Methanol may affect the brain or nervous system causing lizziness, headache or nausea. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Under normal use conditions, this product is not expected to cause adverse health effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury. Ingestion may result in obstruction when material hardens.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Repeated or prolonged exposure may cause mild irritation of eyes and skin. Trimethoxyvinylsilane may cause heart muscle damage, anemia and lung, liver and kidney damage. Constituents of this product include crystalline silica which ,if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u> 1317-65-3	<u>Chemical Name</u> Limestone		Oral LD50 6450 mg/kg Rat	Dermal LD50 N.1.	<u>Vapor LC50</u> N.I.
38515-49-1	1,2-Benzenedicarboxylic ad branched	eid, di-C9-C11-	>60000 mg/kg Rat	16000 mg/kg Rabbit	>12.54 mg/L Rat
2768-02-7	Trimethoxyvinylsilane		7340 mg/kg Rat	3460 mg/kg Rabbit	16.8 mg/L Rat
2768-02-7	Organosilane Ester		11000 mg/kg Rat	3259.2 mg/kg Rabbit	>20 mg/L
N.I. = No Info	ormation				

12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

13. Disposal Information

DISPOSAL INFORMATION: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

14. Transport Information

DOT UN/NA Number:

N.A.

DOT Proper Shipping Name:

Not Regulated

OT Technical Name:

N.A.

OT Hazard Class:

N.A.

Hazard SubClass:

Ņ.A.

Packing Group:

Ń.Α.

15. Regulatory Information

U.S. Federal Regulations:

ERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Respiratory or Skin Sensitization

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

16. Other Information

Revision Date:

4/11/2022

Supersedes Date: 12/29/2021

Reason for revision:

Substance Hazard Threshold % Changed

Substance and/or Product Properties Changed in Section(s):

01 - Product Information

08 - Exposure Controls/Personal Protection Substance Regulatory CAS Number Changed

Substance Hazardous Flag Changed

Datasheet produced by:

HMIS Ratings:

Flammability:

Reactivity:

Regulatory Department

Personal Protection:

1

Health:

0

0

X

VOC Less Water Less Exempt Solvent, g/L: 4.3

VOC Material, g/L: 4

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.28

VOC Actual, Wt/Wt%: 0.3

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H317

May cause an allergic skin reaction.

H332

Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS07



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

SDS Number: 1008301

SAP Number:

Revision Date: 4/12/2022

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE "NFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this ocument is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly ained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

SDS Number: 1008301

SAP Number:

Revision Date: 4/12/2022



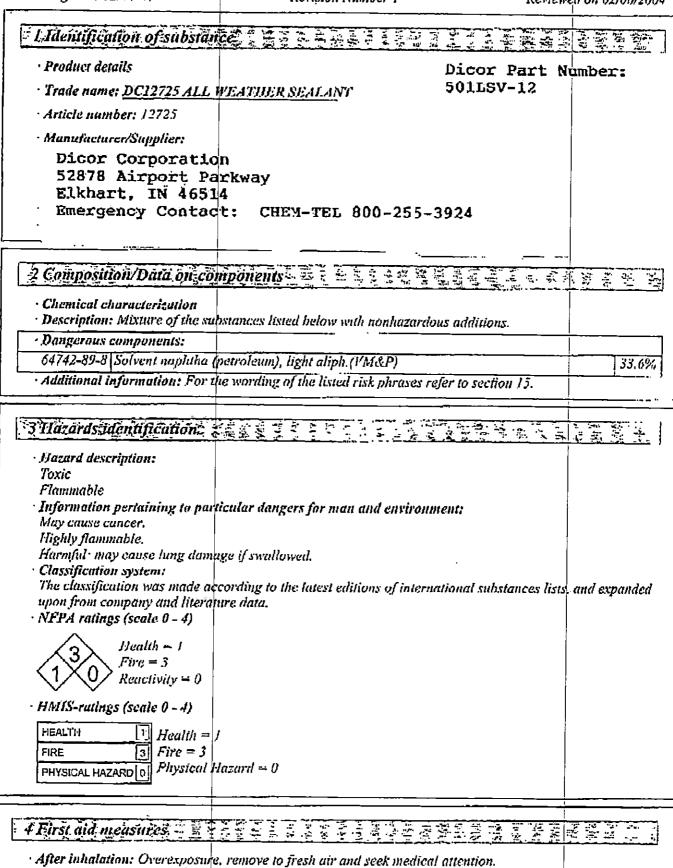
Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 02/06/2004

Revision Number 1

Reviewed on 02/06/2004

(Contd. on page 2)



· After skin contact: Immediately wash with water and soap and rinse thoroughly.

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 02/06/2004

Revision Number 1

Reviewed on 02/06/2004

Trade name: DC12725 ALL WEATHER SEALANT

· Breathing equipment:

(Contd. of page 2)

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- · Protection of hands: Protective gloves
- · Eye protection: Safety glasses with side shields.
- Body protection: Protective work clothing

71 ivsicurana circuncuia	koperdes # 1 1 2 # 3 4 1 1 2 4 4 5 5 2 6 4 5
General Information	
Form: Calur: Odyr:	Paste Ivory Characteristic
· Change in condition Melting point: Boiling point:	Undetermined. 127°C (261°P)
· Flash point:	13°C (55°F)
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtare possible
· Flammable limits: Lower: Upper:	1.0 Vol % 7.0 Vol %
Specific gravity:	1.170
Solubility In / Miscibility with Water:	Not miscible or difficult to mix.
Solvent content: Organic salvents:	33.6 %
	33.6 % 66.4 %

10 Stubility and reactivity.

- · Thermal decomposition / conditions to be avoided: Keep away form extreme heat, sparks, open flames.
- · Dangerous reactions Strong oxidizers, acids and bases.
- · Dangerous products of decomposition:
- Oxides of carbon, nitrogen and hydrocarbons, hydrogen chloride (thermal degradation products).

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· Acute toxicity; · Primury irritar · on the skin: Irr · on the eye: Irri	i <mark>t effect:</mark> ritaut to skin d	nd mu	cous	meni	bra	nes.										

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 02/06/2004

Revision Number 1

Reviewed on 02/06/2004

Trade name: DC12725 ALL WEATHER SEALANT

(Contd. of page 1)

· After eye contact: Rinsa opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Seek medical treatment.

5 Fire fighting measures 12 1 1 2 1 1 1 1

- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water and water with full jet
- Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release metistres - 4 3 5 5 5 5 5 5

· Person-related safety precautions: Wear protective equipment. Keep unprotected persons dway.

· Measures for environmental protection:

Do not allow product to reach xawage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Measures for cleaning/collecting?

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

- · Handling:
- Information for safe handling: Open and handle receptacle with care.
- Information about protection against explosions and fires;

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Storage:
- · Regulrements to be met by starerooms and receptacles: Store in a cool location away from direct heat.
- Information about storage in one commun storage facility: Store as flammable liquid.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- Additional information about design of technical systems; No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygicaic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

(Contd. on page 3)

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 02/06/2004	Revision Number I	Reviewed on 02/06/2004
Trade name: DC12725 ALL WEAT	HER SEALANT	
· Additional toxicological informa	brough inhalation is possible with prolonged expo tion: dangers according to internally approved calcula	
Do not allow product to reach gr	ment): extremely hazardous for water ound water, water course or sewage system, even extremely small quantities leak into the ground.	
· Product: · Recommendation: · Must not be disposed of together · Uncleaned packagings:	with household garbage. Do not allow product to be made according to official regulations.	
14 Transport information:		
· DOT regulations: · Hazard class; · Identification number; · Packing group; · Proper shipping name (technical	3 UN1133 II name): Adhesives, flammable	
15 Regulations		
Sara Section 355 (extremely hazardam None of the ingredients is listed.		
None of the ingredients is listed. TSCA (Toxic Substances Control		
All components of this product are requirements. Proposition 65	on the TSCA Inventory or are exempt from TSCA	Inventory
Chemicals known to cause cancer	chemical(s) known to the state of California to car	use cancer.

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 02/06/2004

Revision Number 1

Reviewed on 02/06/2004

(Cento, of page 4)

Trade name: DC12725 ALL WEATHER SEALANT

- (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL

requirements.

· Canceragenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxiculogy Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIII)

None of the ingredients is listed.

MAK (German Muximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· fluzard-determining components of labelling:

Solvent naphtha (petroleum), light aliph (VM&P)

· Risk plirases:

Warning: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

May cause cancer. Highly flammable.

Harmful: may cause lung damage if swallowed

· National regulations:

· Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.

· Department issuing MSDS: Environment protection department.





Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 07/31/2007

Revision Number 3

Reviewed on 05/28/2004

I Identification of substance

- · Product details
- · Trade name: Dicor 551LSW Lap Sealant
- · Article number: 12345
- · Manufacturer/Supplier:

Dicor Corporation

52878 Airport Parkway

Elkhart, IN 46515

· Information department: Environment protection department.

2 Composition/Data on components

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions
- · Dangerous components:

64742-89-8 Solvent naphtha (petroleum), light aliph.(VM&P)

33.6%

· Additional information: For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- · Hazard description:
- Flammable
- Toxic
- · Information pertaining to particular dangers for man and environment:

Harmful: may cause lung damage if swallowed.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 1 *Fire* = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1

3 Fire = 3

PHYSICAL HAZARD [0] Physical Hazard = 0

4 First ald measures

- · After inhalution: Overexposure, remove to fresh air and seek medical attention.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 2)

- USA

Material Safety Data Sheet

Printing Date 07/31/2007

Revision Number 3

Reviewed on 05/28/2004

Trade name: Dicor 551LSW Lap Sealant

· After swallowing: Seek medical treatment.

(Contd of page 1)

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

, B. p.

· Protective equipment:

Coveralls

Respiratory protective device.

6 Accidental release measures

· Person-related safety precautions: Ensure adequate ventilation

· Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Dispose of contaminated material as waste in accordance with federal state and local regulations.

7 Handling and storage

- · Handling:
- · Information for safe handling: Open and handle receptacle with care.
- Information about protection against explosions and fires: Store in cool dry area away from direct heat (60-90 degrees F). Keep respiratory protective device available.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store as flammable liquid.
- · Further information about storage conditions: Keep receptacle tightly sealed.

8 Exposure controls and personal protection ,

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment (see listings below)
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment:

In the absence of adequate ventilation, NIOSH-certified respiratory protection for organic vapor should be used as necessary. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands: Protective gloves

(Contd. on page 3)

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 07/31/2007

Revision Number 3

Reviewed on 05/28/2004

Trade name: Dic	or 551LSW Lap Sealant	
· Eye protectio	n: Safety glasses with side shields. on: Protective work clothing	(Contd. of page 2)

· General Information	
Form: Color: Odor:	Paste White Characteristic
· Change in condition Melting point: Boiling point:	Undetermined. 124°C (255°F)
· Flash point:	10°C (50°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Specific gravity:	1,190
· Solubility in / Miscibility w Water:	ith Insoluble.
· Solvent content: Organic solvents:	33,6 %
· Solids content:	66.4 %
· Additional information:	"NOTICE: This product does not comply with the requirements of Rule 1168 of California's South Coast Air Quality Management District". VOC: = 3.04 LBS/GAL Weight per gallon: = 9.90 LBS

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions Strong oxidizers, acids and bases.
- Dangerous products of decomposition:
 OXIDES OF CARBONS AND NITROGEN UNDER BURNING CONDITIONS.

11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:
- on the skin: Generally this product does not irritate the skin.
- on the eye; Irritating effect.
- · Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 07/31/2007

Revision Number 3

Reviewed on 05/28/2004

Trade name: Dicor 551LSW Lap Sealant

(Contd. of page 3)

12 Ecological information

· General notes:

Water hazard class 3 (Self-assessment); extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations 🔒 🗧

- Product:
- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · DOT regulations:
- · Hazard class:
- · Identification number:
- Packing group:
- · Proper shipping name (technical name): Adhesives, flammable
- · Land transport ADR/RID (cross-border):
- · ADR/RID class:

3 Flammable liquids

· UN-Number:

UN1133

Ш

- · Description of goods:
- Adhesives, flammable
- · Maritime transport IMDG:
- · Remarks:

Non regulated

15 Regulations

- · Sara
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- · TSCA (Toxic Substances Control Act):
- All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
- Proposition 65
- · Chemicals known to cause cancer:
- Substance is listed.
- Warning: This product contains a chemical(s) known to the state of California to cause cancer.

64742-89-8 Solvent naphtha (petroleum), light aliph (VM&P)

· Chemicals known to cause reproductive toxicity:

Substance is listed.

Warning: This product contains a chemical known to the state of California to cause birth defects or other

reproductive harm.

64742-89-\$ Solvent naphtha (petroleum), light aliph.(VM&P)

(Contd. on page 5)

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing Date 07/31/2007

Revision Number 3

Reviewed on 05/28/2004

Trade name: Dicor 551LSW Lap Sealant	
	(Contd. of page 4)
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
· MAK (German Maximum Workplace Concentration)	
None of the ingredients is listed.	
· NIOSII-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
 Product related hazard informations: The product has been classified and marked in accordance with directives on h 	azardous materials.
· Hazard-determining components of labelling: Solvent naplutha (petroleum), light aliph.(VM&P)	
Risk phrases: Warning: This product contains a chemical(s) known to the state of California or other reproductive harm. Harmful: may cause lung damage if swallowed.	to cause cancer and birth defects
· National regulations:	
· Water hazard class: Water hazard class 3 (Self-assessment); extremely hazard	dus for water.

16 Other information

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Dicor Corporation makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Dicor Corporation or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.

· Department issuing MSDS: Environment protection department.

LISA

a **dicor** company

Safety Data Sheet acc. to OSHA HCS

Revision Number 5

Page 1/8

Article number: 12718 Revision Date 05/05/2015

1 Identification

· Product identifier

Printing Date 05/05/2015

- · Part #: 501LSW
- · Article number: 12718
- · Relevant identified uses of the substance or mixture. Sealant
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dicor Corporation

2965 LaVanture Pl

Elkhart IN 46514

Information Phone Number: 574-264-2699

- · Information department: Environment protection department.
- · Emergency telephone number: Chem Tel: 1-800-255-3924

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 | H225 Highly flammable liquid and vapor.



GHS07

STOT SE 3 | H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS02

GHS07

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor.

May cause drowsiness or dizziness.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

Take precautionary measures against static discharge.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

Printing Date 05/05/2015

Revision Number 5

Article number: 12718 Revision Date 05/05/2015

	110710171111110070	Revision Duic 05/05/2015
		(Contd. of page 1)
		ortable for breathing.
	: CO2, powder or water spray.	
l-ventilated place. I	Keep container tightly closed.	
itents/container in	accordance with local/regional/national/inte	ernational regulations.
system:		_
(scale 0 - 4)		
Fire = 3		
(scale 0 - 4)		
1 Health = 1		
3 $Fire = 3$		
RDO Physical Ha	zard = 0	
•		
T and vPvB assess.	ment	
olicable.		
	center/doctor if you Use for extinction p. I-ventilated place. It is is is is is in the system: I (scale 0 - 4) I Health = 1 I Fire = 3 Reactivity = 0 I Health = 1 I Fire = 3 RD O Physical Hall	-ventilated place. Keep container tightly closedventilated place. Keep coolventilated place. Ventilated placeventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated place. Ventilated placeventilated place. Ventilated place. Ventilated place. Ventilated place. Ventilated placeventilated place. Ventilated plac

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Hazardous components:
 64742-89-8 | Solvent naphtha (petroleum), light aliph.(VM&P)

25-50%

· Additional information:

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek immediate medical advice.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Printing Date 05/05/2015

Revision Number 5

Article number: 12718
Revision Date 05/05/2015

Part #: 501LSW

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Advice for firefighters
- · Protective equipment:

Coveralls

Respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires:

Store in cool dry area away from direct heat (60-90 degrees F).

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store as flammable liquid.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

-USA

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(Contd. of page 3)

Part #: 501LSW	

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment (see listings below)

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

· Eye protection: Safety glasses with side shields.

· Body protection: Protective work clothing

Information on basic General Information Appearance:	c physical and chemical properties	
Form:	Paste	
Color:	White	
Odor:	Characteristic	·
Change in condition		
Melting point:	Undetermined,	
Boiling point:	127 °C (261 °F)	
Flash point:	13 °C (55 °F)	
Auto igniting:	Product is not selfigniting.	
Danger of explosion	Product does not present an explosion hazara	1.
Specific gravity:	1.190	
Solubility in / Miscib Water:	ility with Insoluble	
Solvent content: Organic solvents:	32.5 %	
Solids content: Other information	67.5 %	
,	VOC: = 3.04 lb/gal OR 364 GRAMS/L Weight per gallon: = 9.92	

(Contd. on page 5)

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Revision Date 05/05/2015

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(Contd. of page 4)

10 Stability and reactivity

- Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Keep away form extreme heat, sparks, open flames.

- · Possibility of hazardous reactions Strong oxidizers, acids and bases.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

OXIDES OF CARBONS AND NITROGEN UNDER BURNING CONDITIONS.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: May irritate the skin.
- · on the eye: May irritate the eye.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · Carcinogenic categories
- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 6)

Printing Date 05/05/2015

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Part #: 501LSW		
· Other adverse	effects No further relevant information available.	(Contd. of page 5)

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

<u> </u>	<u> </u>	
· UN-Number · DOT, ADR, IMDG, IATA	UN1133	
· UN proper shipping name · DOT, IMDG, IATA · ADR	ADHESIVES 1133 ADHESIVES	
· Transport hazard class(es)		
·DOT		
Lucy and the control of the control		
· Class · Label	3 Flammable liquids	
· ADR, IMDG, IATA	<i>3</i>	
· Class · Label	3 Flammable liquids 3	
· Packing group		
· DOT, ADR, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
· Special precautions for user	Warning: Flammable liquids	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	: II of Not applicable.	
· Transport/Additional information:		
· DOT	Limited Quantity [DOT ground] - III materials) may be classified as (3)	5 Liters (1.3 gallons) and less (F LTD. QTY. 49 CFR 173.150 (b)

Printing Date 05/05/2015

Revision Number 5

Article number: 12718
Revision Date 05/05/2015

				(Contd. of p
· UN "Model H	egulation":	UN1133, ADI	HESIVES, 3, III	
Regulatory	information			
	-	regulations/legislation	specific for the subs	tance or mixture
Section 355 (xtremely hazardous	s substances):		
None of the in	gredients is listed.			
Section 313 (pecific toxic chemi	cal listings):		
None of the in	gredients is listed.			
TSCA (Toxic	Substances Control	Act):		
			or are exempt from	TSCA Inventory requirements.
Warning: This	own to cause cancer product contains a	r: chemical(s) known to the	e state of California	to cause cancer.
All ingredient				
Chemicals kn Warning: This reproductive h	ow <mark>n to cause repro</mark> a product contains a arm.	luctive toxicity: chemical known to the si	tate of California to	cause birth defects or other
None of the in	gredients is listed.			
	Dosmestic Substants of this product are		mestic Substance lis	t) or are exempt from DSL
Cancerogenity	categories			
EPA (Environ	mental Protection A	1gency)		· ···· ·
None of the in	gredients is listed.			
TLV (Thresho	ld Limit Value estal	blished by ACGIH)		
None of the in	gredients listed.	<u> </u>		
MAK (German	Maximum Workp	lace Concentration)		
None of the ing	gredients is listed.			
NIOSH Ca (N	ational Institute for	Occupational Safety an	nd Health)	
174 CD11-C# (21		7		
None of the ing	reaienis is iistea.		1	

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Dicor Corporation makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Dicor Corporation or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

(Contd. on page 8)

Printing Date 05/05/2015

Revision Number 5

Article number: 12718
Revision Date 05/05/2015

Part #: 501LSW

(Contd. of page 7)

Department issuing SDS: Environment protection department.

· Creation Date: 07/31/2007

· Date of preparation / last revision 05/05/2015 / 4

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) Flam. Liq. 2: Flammable liquids, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

USA

SAFETY DATA SHEET



HMIS Codes

Health

SECTION 1 PRODUCTS AND COMPANY IDENTIFICATIONS PRUDUCT NAME: Dicor Metal RV Roof Coating

PRODUCT #: RP-MRC

GENERAL USE: Elastomeric roof coating

PRODUCT DESCRIPTION: Pigmented acrylic latex

COMPANY NAME DATE PREPARED: April 17, 2014 March 21, 2012 Dicor Corporation SUPERSEDÉS:

ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION

2965 LaVanture PI 574-264-2699

EMERGENCY TELEPHONE NUMBER CITY, STATE & ZIP CODE COUNTRY

CHEMTEL: 1-800-255-3924 Elkhart IN 46514 USA

SEGIIO AZARDS IDENTIFICATION

ROUTES OF EXPOSURE INHALATION of vapor or spray mist.

EFF

EYE or SKIN contact with the product, vapor or spray mist.	Flammability	U
FECTS OF OVEREXPOSURE	Reactivity	0
Irritation.	Protective Equipment	E
GNS AND SYMPTOMS OF OVEREXPOSURE		

SIG

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

HAZARDOUS COMPONENT	CAS#	% By Weight
IUM DIOXIDE	13463-67-7	6.60
IUM CARBONATE	1317-65-3	18.90
THYLENE GLYCOL	107-21-1	1.5 🕽
EXANOL -	25265-77-4	1.2ģ
CRYLIC POLYMER EMULSION	SUPP. CONF.	29.1 1
VATER	7732-18-5	42.50
		,
у		

ROUTES OF EXPOSURE: Inhalation of vapor or mist. Eye or skin contact with the product, vapor or mist.

EYES: Flush eyes with large amounts of water for 15 minutess. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, Remove from exposure. Restore breathing. Keep guiet and warm.

INGESTION: Do not induce vomiting. Get medical attention immediately.

EXTINGUISHING MEDIA

Water based coating. Will not burn under normal circumstances.

UNUSUAL FIRE AND EXPLOSION HAZARDS

sed containers may explode when exposed to extreme heat.

STATE THE STATE OF SECTION 6 VACCIDEN

Shacial fire fighting procedures

Water may be used to cool to prevent pressure build up

PERSONAL PRECAUTIONS

Avoid breathing fumes. Wear proper personal equipment.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers/surface or ground water.

METHODS OF CLEAN UP

Absorb spill with vermiculite, floor absorbent or other absorbent materila.

SECTION 72-HANDLING AND STORAGE

SAFE HANDLING

Avoid breathing fvapors or spray mist.

FIRE PREVENTION

The product itself will not burn.

STORAGE

Keep container closed in a drywell ventilated place.

SECTION 8 EX	20SURE	CONTIROLS XII	RERSONALERRO	QTECTION-∓÷÷∜#	
CHEMICAL NAME		CAS#	OSHA PEL	ACGIH TLV	WT %
TITANIUM DIOXIDE		13463-67-7	10 mg / m ³	10 mg / m ³	6.60
CALCIUM CARBONATE		1317-65-3	15 mg / m³	10 mg / m³	18.90
ETHYLENE GLYCOL		107-21-1	50 ppm	100 mg / m ³	1.51
TEXANOL		9002-88-4	NE	NĖ	1.20
LIC POLYMER EMULSION		SUPP. CONF.	NE	ΝĖ	29.11
' [:] :R		7732-18-5	NE	ΝĖ	42.50
					1
			_		

RESPIRATORY PROTECTION

Whenever workers are in concentrations above the exposure limit they must use appropriate NIOSH/MSHA approved respirators.

SKIN PROTECTION

Wear impervious gloves and apron to prevent skin contact.

EYE/FACE PROTECTION

Use splash-proof safety googles or face shield.

OTHER PRECAUTIONS

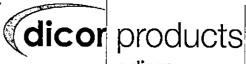
Eyewash station and safety shower should be available within the workplace.

CINEERING CONTROLS

pcal exhaust preferable. General exhaust is acceptable if maintained below applicable exposure limits.

PHYSICAL STATE Liquid ODOR Non-descript **COLOR** White PH 8.5 to 9.0 **BOILING POINT 212°F** FREEZING POINT 32°F FLAMMABILITY Non-flammable **RELATIVE DENSITY 1.23** SOLUBILITY 100% VOC CONTENT 81.1grams/liter MATERIALS TO AVOID None HAZARDOUS REACTIONS Stable HAZARDOUS POLYMERIZATION Will not occur SECTION A TETOXICOLOGICAL INFORMAT **ACUTE EFFECTS** None known **CRYSTALLINE SILICAS** Exposures to respirable Crystalline silica are not expected during normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica dan result in lung disease (silicosis) and/or lung cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration SECTION 12 JECOLOGICAL INFOL **ECOLOGICAL EFFECTS** is product has no known adverse ecological effects. ELL CARTE LE CARLESEOTION MASDISPOSALEGONSIDERATIONS EL Collect and dispose of in accordance with Federal, State/Provincial and Local Do not contaminate ground water and environment. Recycle empty buckets or bags. Non - regulated, not classified as dangerous. **** THE SECTION (15 SREGULATION) Observe the general safety regulations when handling. SARA 313 Not considered hazardous. EPCRA 302 Not considered hazardous. EPCRA 304 Not considered hazardous. RCRA Hazardous Waste: Not Listed This product is not intended for use in food or pharmaceuticals. The information provided in this Safety Data Sheet is, to the best of our knowledge, correct. The data set forth on this sheet is based on information provided by the suppliers of raw materials and chemicals used in the production and manufacture of the · aforementioned products. Dicor Corporation makes no warranty with respect to the accuracy of the information provided by the suppliers, and disclaims all liability or reliance thereof. Buyer assumes all risk of use, storage and handling of the product in accordance with federal, state and local laws and regulations.

SAFETY DATA SHEET



a dicor company

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SECTION ALEPRODUCTEAND GOMPANY (IDENTIFICATION)

DUCT NAME: Fiberglass Roof Coaing

PRODUCT CODE: RP-FRC

GENERAL USE: Fiberglass roof coating

PRODUCT DESCRIPTION: Pigmented acrylic emulsion

COMPANY NAME DATE PREPARED: April 17, 2014
Dicor Corporation SUPERSEDES: April 30, 2012

ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION

2965 LaVanture PI 574-264-2699

CITY, STATE & ZIP CODE COUNTRY EMERGENCY TELEPHONE NUMBER

SECTION 25 HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

Irritation.

	HMIS Codes
Health	1
Flammability	0
Reactivity	0
Protective Equipment	E

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized,

SECTION 354 COMPOSITIO HAZARDOUS COMPONENT	CAS#	% By Weight
PORYLENE GLYCOL	57-55-6	1.14
IIUM DIOXIDE	13463-67-7	6.40
ALCIUM CARBONATE	1317-65-3	30.90
CRYLIC POLYMER EMULSION	SUPP. CONF.	36.70
ATER	7732-18-5	14.86
•		
	1	

ROUTES OF EXPOSURE: Inhalation of vapor or mist. Eye or skin contact with the product, vapor or mist.

EYES: Flush eyes with large amounts of water for 15 minutess. Get medical attention.

SKIN: Wash affected area thouroughly with soap and water.

INHALATION: If affected. Remove from exposure. Restore breathing. Keep guiet and warm.

INGESTION: Do not induce vomiting. Get medical attention immediately.

EXTINGUISHING MEDIA Water based coating. Will not burn under normal circumstances. UNUSUAL FIRE AND EXPLOSION HAZARDS sed containers may explode when exposed to extreme heat. E. LUIAL FIRE FIGHTING PROCEDURES Water may be used to cool to prevent pressure build up. SECTION GEAGINENTAL TREVEASE MEASUR PERSONAL PRECAUTIONS Avoid breathing fumes. Wear proper personal equipment. **ENVIRONMENTAL PRECAUTIONS** Do not allow to enter sewers/surface or ground water. METHODS OF CLEAN UP Absorb spill with vermiculite, floor absorbent or other absorbent materila. #SECTION#7##HANDLING#AND#STORAGE SAFE HANDLING Avoid breathing fvapors or spray mist. FIRE PREVENTION The product itself will not burn. **STORAGE** Keep container closed in a drywell ventilated place. SECTION 8 DEXPOSURE CONTROLS/APERSONAL PROTECTION DE CAL **OSHA PEL ACGIH TLV** WT% CHEMICAL NAME CAS# PROPYLENE GLYCOL 57-55-6 NE NE 1.14 10 mg / m³ 10 mg / m³ 6.40 TITANIUM DIOXIDE 13463-67-7 CALCIUM CARBONATE 1317-65-3 10 mg / m³ 10 ma / m³ 30.90 ΝĖ SUPP. CONF. NE 36.70 ACRYLIC POLYMER EMULSION 7732-18-5 NE NE 14.86 ER RESPIRATORY PROTECTION Whenever workers are in concentrations above the exposure limit they must use appropriate NIOSH/MSHA approved respirators. SKIN PROTECTION Wear impervious gloves and apron to prevent skin contact. EYE/FACE PROTECTION Use splash-proof safety googles or face shield. OTHER PRECAUTIONS Eyewash station and safety shower should be available within the workplace. I ENGINEERING CONTROLS cal exhaust preferable. General exhaust is acceptable if maintained below applicable exposure limits.

PHYSICAL STATE Liquid ODOR Non-descript **COLOR** White PH 8.5 to 9.0 **BOILING POINT 212°F** FREEZING POINT 32°F FLAMMABILITY Non-flammable **RELATIVE DENSITY 1.36** SOLUBILITY 100% VOC CONTENT 98.50 grams/liter MATERIALS TO AVOID None HAZARDOUS REACTIONS Stable HAZARDOUS POLYMERIZATION Will not occur **ACUTE EFFECTS** None known CRYSTALLINE SILICAS Exposures to respirable Crystalline silica are not expected during normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (silicosis) and/or lung cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration. THE STATE OF **ECOLOGICAL EFFECTS** This product has no known adverse ecological effects. Collect and dispose of in accordance with Federal, State/Provincial and Local Do not contaminate ground water and environment. Recycle empty buckets or bags. SECTION MATTER ANSPORTAIN FORMATION # Non - regulated, not classified as dangerous. | 対象でいまされず まず 本でSEGTION 115 PREGULATION ATION に Observe the general safety regulations when handling. SARA 313 Not considered hazardous. EPCRA 302 Not considered hazardous. EPCRA 304 Not considered hazardous. RCRA Hazardous Waste: Not Listed SEESECTION 16 OTHER INFORMATIONS This product is not intended for use in food or pharmaceuticals. The information provided in this Safety Data Sheet is, to the best of our knowledge, correct. The data set forth on this sheet is based on information provided by the suppliers of raw materials and chemicals used in the production and manufacture of the aforementioned products. Dicor Corporation makes no warranty with respect to the accuracy of the information provided by the suppliers, and disclaims all liability or reliance thereof. Buyer assumes all risk of use, storage and handling of the product in accordance with federal, state and local laws and regulations:

SAFETY DATA SHEET



a dicor company

HMIS Codes

PRODUCT NAME:

FIBERGLASS CLEAN AND PREP

PRODUCT #:

RP-FCP

GENERAL USE:

COMPANY NAME

FIBERGLASS CLEANER AND PREP

PRODUCT DESCRIPTION:

DETERGENT SOLUTION

DICOR CORPORATION | DATE PREPARED:

ON: JE:PRODUCT:JAND: COMPANY, IDENTIFICATION:

April 15, 2015

SUPERSEDES:

N/A

ADDRESS (NUMBER, STREET, P.O. BOX)

574-264-2699

TELEPHONE NUMBER FOR INFORMATION

2965 LaVanture PI CITY, STATE & ZIP CODE

COUNTRY

EMERGENCY TELEPHONE NUMBER

Elkhart IN 46514

USA

CHEMTEL: 1-800-255-3924

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ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

Irritation.

		HALLO COUCS
	Health	4
Fla	mmability	0
	Reactivity	8
Protective E	quipment	D

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

HAZARDOUS COMPONENT	CAS#	% By Weight
2 6 Mole Linear Alcohol Ethoxylate	66455-15-0	2.5
<u>∃</u> R		97 5
	 	
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SECTION 43°COMPOSITION/INFORMATION ON INGREDIENTS

ROUTES OF EXPOSURE: Inhalation of vapor or mist. Eye or skin contact with the product, vapor or mist.

EYES: Flush eyes with large amounts of water for 15 minutess. Get medical attention.

SKIN: Wash affected area thouroughly with soap and water.

INHALATION: If affected, Remove from exposure. Restore breathing. Keep quiet and warm.

INGESTION: Do not induce vomiting. Get medical attention immediately.

THE TEST OF THE SECTION OF THE SECTI	10N 5=1	IRB FIGHTING	MEASURES#			
EXTINGUISHING MEDIA		<u> </u>	<u> </u>			
Water based coating. Will not burn under norn UNUSUAL FIRE AND EXPLOSION HAZAR		ances.				
ed containers may explode when exposed Special FIRE FIGHTING PROCEDURES	to extreme	heat.				
Water may be used to cool to prevent pressure	build up.					
Registrate: V=1 = 05. Extremely SECTION	i 6=AGG	idenival-reu-	ase measur	8 W.		
PERSONAL PRECAUTIONS						
Avoid breathing fumes. Wear proper personal ENVIRONMENTAL PRECAUTIONS	equipment.					
Do not allow to enter sewers/surface or ground METHODS OF CLEAN UP						
Absorb spill with vermiculite, floor absorbent o	r other abso	rbent materila.				
	THOM:77=,	HANDUNG AN	D STORACE			
SAFE HANDLING						
Avoid breathing fvapors or spray mist. FIRE PREVENTION						
The product itself will not burn. STORAGE						
Keep container closed in a drywell ventilated r						
SECTION 8 EXI	POSURIE:	CONTROLS//F	ersonal pro	free transfer		
CHEMICAL NAME		CAS #	OSHA PEL	ACGIH	TLV	WT %
C10-12 6 Mole Linear Alcohol Ethoxylate		66455-15-0	N/E			-
1						
	}					
,						
1						
]
						}
	[İ
	i					
			1			
				<u> </u>		<u> </u>
RESPIRATORY PROTECTION			1			
Whenever workers are in concentrations above SKIN PROTECTION			se appropriate NIOS	SH/MSHA appr	roved respira	itors.
Wear impervious gloves and apron to prevent EYE/FACE PROTECTION	skin contac	t.				
Use splash-proof safety googles or face shield OTHER PRECAUTIONS	d.					
Eyewash station and safety shower should be	e available w	vithin the workplace.				
cal exhaust preferable. General exhaust is	acceptable	if maintained below	applicable exposure	e limits.		
•						

SECTION 9 PHYSICAL PHYSICAL STATE LIQUID ODOR Not determined COLOR RED PH 13.8 **BOILING POINT** 100 °C (212 °F) FREEZING POINT 32 F FLAMMABILITY NOT APPLICABLE RELATIVE DENSITY 1.12 g/cm³ (9.346 lbs/gal) SOLUBILITY 100% **VOC CONTENT** SECTION 10 STABILITY FAND MATERIALS TO AVOID None HAZARDOUS REACTIONS Stable HAZARDOUS POLYMERIZATION Will not occur SECTION TIETOXICOLOGICAL LINFORMATION ACUTE EFFECTS None known CRYSTALLINE SILICAS Exposures to respirable Crystalline silica are not expected during normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (silicosis) and/or lung cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration. SECTION \$125ECOLOGICAL# ECOLOGICAL EFFECTS s product has no known adverse ecological effects. Collect and dispose of in accordance with Federal, State/Provincial and Local Do not contaminate ground water and environment. Recycle empty buckets or bags. - GANGE SECTION A LA STIRANSPORTATION HAS TO A SECTION OF THE Non - regulated, not classified as dangerous. Observe the general safety regulations when handling. SARA 313 Not considered hazardous. EPCRA 302 Not considered hazardous. EPCRA 304 Not considered hazardous. RCRA Hazardous Waste: Not Listed プログラス デース デース 東京 Wind Wind Section 216 3 OTHER WINFORMATION This product is not intended for use in food or pharmaceuticals. The information provided in this Safety Data Sheet is, to the best of our knowledge, correct. The data set forth on this sheet is based on information provided by the suppliers of raw materials and chemicals used in the production and manufacture of the aforementioned products. Dicor Corporation makes no warranty with respect to the accuracy of the information provided by the suppliers, and disclaims all liability or reliance thereof. Buyer assumes all risk of use, storage and handling of the product in accordance with federal, state and local laws and regulations.

SAFETY DATA SHEET



HMIS Codes

Health

SECTION A PRODUCT AND COMPANY IDENTIFICATION AND SECTION AND SECTION AND SECTION AS A SECTION AS

RUDUCT NAME: Metal Roof Rust Inhib Primer

PRODUCT #: RP-MRRIP

Dicor Corporation

COMPANY NAME

GENERAL USE: All Purpose Metal Roof Primer PRODUCT DESCRIPTION: Pigmented acrylic latex

DATE PREPARED: April 17, 2014 SUPERSEDES: April 30, 2012

ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION

2965 LaVanture PI 574-264-2699

CITY, STATE & ZIP CODE COUNTRY EMERGENCY TELEPHONE NUMBER

CHEMTEL: 1-800-255-3924 Elkhart IN 46514 USA

SEGIION ZAHAZARDS IDENIII IGAIIO

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

ETE of Skin contact with the product, vapor of spray mist.	Flatiniability 0	
FFECTS OF OVEREXPOSURE	Reactivity 0	
Irritation.	Protective Equipment E	
GIGNS AND SYMPTOMS OF OVEREXPOSURE		

WHITE AND THE SECTION STROMPOSITION AND REPRESENTATION OF THE PROPERTY OF THE SECTION OF THE SEC

SIG

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

HAZARDOUS COMPONENT	CAS#	% By Weight
'	7732-18-5	18.77
VIUM DIOXIDE	13463-67-3	13.71
MAGNESIUM SILICATE	12174-11-7	9.10
MICA	12001-26-2	2.31
BARIUM METABORATE	13701-59-2	4.60
STYRENE ACRYLIC POLYMER EMULSION	SUPP. CONF.	40.11
ETHYLENE GLYCOL	107-21-1	1.40
;		
1		

ROUTES OF EXPOSURE: Inhalation of vapor or mist. Eye or skin contact with the product, vapor or mist.

EYES: Flush eyes with large amounts of water for 15 minutess. Get medical attention.

SKIN: Wash affected area thouroughly with soap and water.

INHALATION: If affected, Remove from exposure. Restore breathing. Keep quiet and warm.

SECTION:4#FIRST#AID#MEASURES#

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 FIRE FIGHTING MEASURES EXTINGUISHING MEDIA Water based coating. Will not burn under normal circumstances. UNUSUAL FIRE AND EXPLOSION HAZARDS Dised containers may explode when exposed to extreme heat. LIAL FIRE FIGHTING PROCEDURES Water may be used to cool to prevent pressure build up. SECTION 6 ACCIDENTIAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid breathing fumes. Wear proper personal equipment.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers/surface or ground water.

METHODS OF CLEAN UP

Absorb spill with vermiculite, floor absorbent or other absorbent materila.

SECTION 72-HANDLING AND STORAGE

SAFE HANDLING

Avoid breathing fvapors or spray mist.

FIRE PREVENTION

The product itself will not burn.

STORAGE

Keep container closed in a drywell ventilated place.

	40				
SECTION 8-15XPC	DSUPIS	GONIIFOES//I	Personal Pr	OTIECTION = ====	
CHEMICAL NAME		CAS#	OSHA PEL	ACGIH TLV	WT %
WATER		7732-18-5	NE	ΝE	18.77
TITANIUM DIOXIDE		13463-67-3	10 mg / m³	10 mg / m³	13.71
MAGNESIUM SILICATE		12174-11-7	10 mg / m³	5 mg / m³	9.10
MICA	İ	12001-26-2	3 mg / m³	3 mg / m³	2.31
UM METABORATE	1	13701-59-2	NE	.5 mģ / m³	4.60
RENE ACRYLIC POLYMER EMULSION		SUPP. CONF.	NE	ŊE	40.11
ETHYLENE GLYCOL		107-21-1	NE	100 m¦g / m³	1.40
	1				
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RESPIRATORY PROTECTION

Whenever workers are in concentrations above the exposure limit they must use appropriate NIOSH/MSHA approved respirators.

SKIN PROTECTION

Wear impervious gloves and apron to prevent skin contact.

EYE/FACE PROTECTION

Use splash-proof safety googles or face shield.

OTHER PRECAUTIONS

Eyewash station and safety shower should be available within the workplace.

ENGINEERING CONTROLS

ocal exhaust preferable. General exhaust is acceptable if maintained below applicable exposure limits.

PHYSICAL STATE Liquid ODOR Non-descript **COLOR** White PH 8.5 to 9.0 **BOILING POINT 212°F** FREEZING POINT 32°F FLAMMABILITY Non-flammable RELATIVE DENSITY 1.31 SOLUBILITY 100% VOC CONTENT 81.10 grams/liter : SECTION: 10 STAB MATERIALS TO AVOID None HAZARDOUS REACTIONS Stable HAZARDOUS POLYMERIZATION Will not occur ACUTE EFFECTS None known CRYSTALLINE SILICAS Exposures to respirable Crystalline silica are not expected during normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (silicosis) and/or lung cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration. SECTION 12 ECOLOG ECOLOGICAL EFFECTS is product has no known adverse ecological effects. Collect and dispose of in accordance with Federal, State/Provincial and Local Do not contaminate ground water and environment. Recycle empty buckets or bags ###SECTION#14#TIRANSPORTNINFORMATION Non - regulated, not classified as dangerous. # A P F CHIEF TSECTION \$15 \$REGULATION AND INFORMATION AS THE Observe the general safety regulations when handling. SARA 313 Not considered hazardous. EPCRA 302 Not considered hazardous. EPCRA 304 Not considered hazardous. RCRA Hazardous Waste: Not Listed SECTION \$16 FORMAT This product is not intended for use in food or pharmaceuticals. The information provided in this Safety Data Sheet is, to the best of our knowledge, correct. The data set forth on this sheet is based on information provided by the suppliers of ray materials and chemicals used in the production and manufacture of the aforementioned products. Dicor Corporation makes no warranty with respect to the accuracy of the information provided by the suppliers, and disclaims all liability or reliance thereof. Buyer assumes all risk of use, storage and handling of the product in accordance with federal, state and local laws and regulations.

RP-RC-IGL RP-RC160C RP-RC320S MATERIAL SAFETY DATA SHEET ROOF Cleaner

I. PRODUCT IDENTIFICATION

trode name:

RUBBER RUOF CLEANER CONC

FTEM #:

Mänufacturer name:

Dicor Corporation

Address:

52878 Airport Parkway

Business phones

Elkhart, IN 46514

574-293-2017

Emergency phone:

74-264-2699 For spill & medical energency call

800-255-3924

MFIA Kodings:

Henith I

Hanmability U

Reactivity U.

Date last revised:

January 2, 2002

II. HAZARDOUS INGREDIENTS

Chemical Names

CAS Numbers

Exposure Limits in Air

67-63-0

ACGIII(TLV) 400 ppm

OSHA(PEL)

2-Propanol

400 ppm

Proprietary surfactant blend, builders & water

N/A

NA

NA

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaicd -

None expected.

Contact with skin- May dry the skin and cause irritation...

Contact with eyes - May cause imitation

Swallowed - May cause abdominal discomfort.

FIRST AID EMERGENCY PROCEDURES:

Inhaled: Move to fresh air

Skin contact: Wash with soap and water

Eye Contact: Flush with water for at least 15 minutes. Get medical attention

Swallowed: Drink large quantities of water. Get medical attention

RECOMMENDATIONS TO PHYSICIAN: There is no special antidote. Treatment of over exposure should be directed at the control of symptoms and clinical condition.

SPECTED CANCER AGENT? NO, this products ingredients are not listed in federal OSHA, NTP, IARC of

... L/OSHA lists.

.= Not Available or Not Applicable

IV. PHYSICAL PROPERTIES

Vapor density (nir=1): N/A Specific gravity at 77°F; 1.024 Solubility in water: Complete Melting range, F: 32 Boiling point at 760 mm Hg, °F; 215	Evaporation rate, (butyl acetate=1): Appearance and odor: Liquid with cha Vapor pressure, mm Hg at 77°F: N/A pH: 8.9	racteristic fragrance
v. fire	AND EXPLOSION DATA	
Finamable limits in air, volume %: Fire extinguishing materials:w	flammable dutaination temperature, of N/A Lower Upper nter spray X carbon dioxide X foam media proper to the primary cause of fire.	N/A X dry chemical
VI. RE	ACTIVITY DATA	
Stability: X Stable Canditions to nevid. Keep the products (Hazardous decomposition products (Decardous polymerization:	(including combustion products): Oxides of carbon	add). WA
VII. SP	ILL, LEAK AND DISPOSAL PROCEDURES	
Spill response procedures: Collect to		
"NOTE: Dispose of all wastes in acco	nclance with federal, state and local regulations	
vill. si	PECIAL HANDLING INFORMATION	
Ventilation and engineering controls Eye protection: Wear safety gaggles Other clothing and equipment: Non- Work practices: I	_ 	tween 40-110 °F.
of the product are not within the control of Blu	his \$4.5.D.6. is gurrent. Since the use of this information and the Magic Products. Inc., it is the users obligation to determine them in good faith, but no warranty, expressed or implied is made	ha conditions of the use e conditions of safe use

WE: Not established

RP-RC-IGL RP-RC160C RP-RC3205 MATERIAL SAFETY DATA SHEET ROOF Cleaner

I. PRODUCT IDENTIFICATION

trace name:

RUBBER ROOF CLEANER CONC

TTEM #:

Manufacturer name:

Dicor Corporation

Address:

52878 Airport Parkway

For spill & medical emergency call

Business phone

MYVA Kadings:

Elkhart, IN 46514 574-264-2699

574-293-2017

800-255-3924

Emergency phone:

Heaith 1

Flanunability U

Rescrivity U.

Date Inst revised:

January 2, 2002

II. HAZARDOUS INGREDIENTS

Chemical Names

CAS Numbers

Exposure Limits in Air

ACGIH(TLV)

OSHA(PEL)

2-Propanol

67-63-0

400 ppm

400 ppm

Proprietary surfactant blend, builders & water

N/A

N/A

NA

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaled -

None expected.

Contact with skin- May dry the skin and cause irritation...

Contact with eyes - May cause initation

Swallowed - May cause abdominal discomfort.

FIRST AID EMERGENCY PROCEDURES:

Inhaled: Move to fresh air.

Skin contact: Wash with soap and water

Eye Contact: Flush with water for at least 15 minutes. Get medical attention

Swallowed: Drink large quantities of water. Get medical attention

RECOMMENDATIONS TO PHYSICIAN: There is no special antidote. Treatment of over exposure should be directed at the control of symptoms and clinical condition.

SPECTED CANCER AGENT? NO, this products ingredients are not listed in federal OSHA, NTP, IARC or CAL/OSHA lists.

IV. PHYSICAL PROPERTIES

Vapor density (air=1): N/A Specific gravity at 77°F: 1.024 Solubility in water: Complete

Melting range, F: 32

Boiling point at 760 mm Hg, oF: 212°

Evnporation rate, (butyl acetate=1): NA Appearance and odor: Liquid with characteristic fragrance Vapor pressure, mm Hg at 77°F: N/A pH: 8.9

V CIBE AND EVPLOSION DATA

V. F45	E HUM EVÍ FRANC	W DALIA	
Flack point of (give method). Non- Flammable limits in air, volume %: Fire extinguishing materials: Special fire lighting procedures: U	N/A Lower water spray X se media proper to the	UpperUpper	i foam X dry chemical
VI. RI	ACTIVITY DATA		
Stability: X Stable Candidant to avoid. Recap the products Hazardous decomposition products Hazardous polymerization: VII. S.	(including combust May Occur X	ion products): Oxides	of carbon
Spill response procedures: Collect to Preparing wave for disposal? (ound	or disposal. Rigge (ypas, nopres)	rotion, etc.): M/A	
"NOTE: Dispose of all wastes in acc	widance with federal,	state and local regulati	ōn3 .
vin. s	SPECIAL HANDLI	ig information	
Ventilation and engineering controlling protections. Wear safety gaggle: Other clothing and equipment: No Work practices:	ı. ne		
We believe that the information contained in of the product are not within the control of E	i this M.S.D.B. is current. Nuc Magic Products. Inc.,	Since the use of this infor- it is the users obligation to	mation and the conditions of the use determine the conditions of safe use

WA = Not Available or Not Applicable

WE: Not established

of this product. The information herein is given in good faith, but no warranty, expressed or implied is made

RP-RG-IGL

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade pame:

RUBBER ROOF PROTECTANT

item No.:

Manufacturer nume:

Dicor Corporation

Address:

52878 Airport Parkway

Elkhart, IN 46514

Business phone:

NFPA Ratings:

574-264-2699

Fox no::

800-255-3924

Emergency phone: For spill & medical emergency call

Health 1

Flammability 0

Reactivity 0

Date last revised:

June 1, 2001

Proper Shipping Name: Air- Non-regulated

Track- Non-regulated

IL HAZARDOUS INGREDIENTS

Chemical Names

CAS Numbers

Exposure Limits in Air

ACGIH(TLV)

OSHA(PEL)

Amino Functional polymer and nonionic

surfactant blend (proprietary)

N/A

N/A

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaled - None currently known

Contact with skin - Single relatively short exposure causes no known adverse effect. Seekh prelenged

exposures (24-48 hours) may irritate

Contact with eyes - Direct contact irritates slightly to moderately with redness and swelling Swallowed - Small amounts transferred to mouth during use, should not injure. Swallowing large amounts may

cause disestive discomfort.

FIRST AID EMERGENCY PROCEDURES:

Inhaled: No first aid should be needed.

Skin contact: Wipe off and flush skin with plenty of water. Call a physician

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes and wash contaminated

clothing before reuse

Swallowed: Drink a large quantity of milk, gelatin, egg white or if these are not available, drink a large quantity

of water. Call a physician immediately.

[COMMENDATIONS TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric izvage. Measures against circulatory shock, respiratory depression and convulsions may be needed

or CALJOSHA lists.

SUSPECTED CANCER ACENT? NO, this products ingredients are not listed in federal OSHA, NTP, IARC

IV. PHYSICAL PROPERTIES

Vapor density (air=1): {

Specific gravity at 68°F; 998

Solubility in water: Disperses completely

Melting range, F: 29°

Boiling point at 760 mm Hg, F: 215°

% VOC: <0.5%

Annearance and odor: Milky liquid with aroma

Vapor pressure, mm Hg at 68°F: 1

pH: 7.80

V YIRE AND EXPLOSION DATA

Flash point, of (give method): Non-flammable Autoignition temperature, of: N/A
Flammable limits in air, volume %: N/A Lower N/A Upper
Fire extinguishing materials: X water spray X carbon dioxide X foam X dry chemic
Special fire lighting procedures: N/A Unusual fire and explosion hazards: N/A
VI. REACTIVITY DATA
Stability: X Stable Unstable Conditions to avoid: N/A
Incompatibility (materials to avoid): Strong exidizing agents.
Hazardous decomposition products (including combustion products): N/A
rdous polymerization: May Occur X Will Not Occur
vii. Spill, Leak and disposal procedures
Spill response procedures: Hose down surfaces contacted by this material.

Preparing waste for disposal* (container types, neutralization, etc.): Pour down drain in small increments with large volumes of water between.

*NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: N/A

Respiratory protection; Not required.

Eye protection: Safety goggles

Gloves: Non-permeable: Neopreno, BUNA-N.

Other clothing and equipment: Do not wear contaminated clothing.

Work practices, hygienic practices: N/A

Other handling and storage requirements: Keep bottle closed when not in use.

Keep out of reach of children. Avoid contamination of food stuff. Avoid breathing vapors.

Protective measures during maintenance of contaminated equipment: N/A

We believe that the information commined in this M.S.D.S. is current. Since the use of this information and the conditions of the use of the product are an within the control of Blue Magic Product. Inc. it is the uses obligation to desertine the escatinens of safe use is product. The information berein is given in good faith, but no warranty, expressed or implied is made

N/A = Not Available or Not Applicable

N/E = Not established

RP-RG-IGL

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Trade same:

Address:

RUBBER ROOF PROTECTANT

item No.:

Manufacturer usme:

Dicor Corporation

52878 Airport Parkway

Elkhart, IN 46514

Business phone:

574-264-2699

Fax no.: 800-255-3924

Emergency phone: For spill & medical emergency call

NFPA Ratings:

Health 1

Flammability 0

Reactivity 0

Date last revised:

June 1, 2001

Proper Shipping Name: Air- Non-regulated.

Trock-Non-regulated

IL HAZARDOUS INGREDIENTS

Chemical Names

CAS Numbers

Exposure Limits in Air

ACGIH(TLV)

OSHA(PEL)

Amino Functional polymer and nonignic

surfactant blend (proprietary)

N/A

N/A

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaled - None currently known

Contact with skin - Single relatively shine exposure causes no known adverse effect. Selveral prelanged

exposures (24-48 hours) may irritate

Contact with eyes - Direct contact irritates slightly to moderately with redness and swelling Swallowed - Small amounts transferred to mouth during use, should not injure. Swallowing large amounts may

cause digestive discomfort.

FIRST AID EMERGENCY PROCEDURES:

Inhaled: No first aid should be needed.

Skin contact: Wipe off and flush skin with plenty of water. Call a physician

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes and wash contaminated

clothing before reuse.

Swallowed: Drink a large quantity of milk, gelatin, egg white or if these are not available, drink a large quantity

of water. Call a physician immediately.

COMMENDATIONS TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric layage Measures against circulatory shock, respiratory depression and convulsions may be needed

SUSPECTED CANCER ACENT? NO, this products ingredients are not listed in federal OSHA, NTP, IARC or CAL/OSHA lists

IV. PHYSICAL PROPERTIES

Vapor density (air=1): 1 Specific gravity at 68°F; .998

Solubility in water: Disperses completely

Melting range, F: 29°

Boiling point at 760 mm Hg, F: 215°

% VOC: <0.5%

Appearance and adors Milky liquid with aroma Vapor pressure, mm Hg at 68°F:)

A shot, hi sozni s' i unit 41

pH: 7.80

v. firi	E AND EXPLOSION DATA	
Flash point, of (give method): Non-flanu	nable Autoignition temperature, of: N/A	
Flammoble limits in air, volume %:	N/A Lower N/A Upper	
	spray X carbon dioxide X foam X dry chem	ical
Special fire lighting procedures: N/A	Unusual fire and explosion hazards: N/A	
VI. RE	ACTIVITY DATA	
Stability: X Stable U	nstable Conditions to avoid: N/A	
Incompatibility (materials to avoid): Str	ong oxidizing agents.	
Hazardous decomposition products (inc	luding combustion products): N/A	ľ
	May Occur X Will Not Occur	
vn. si	TILL, LEAK AND DISPOSAL PROCEDURES	
Spill response procedures: Hose down s		
Preparing waste for disposal* (containe volumes of water between.	r types, neutralization, etc.): Pour down dram in small i	hor em ents with large
NOTE: Dispose of all wastes in accord	ance with federal, state and local regulations.	
viii. s	PECIAL HANDLING INFORMATION	
Sentilation and engineering controls: N		
Eye protection: Safety goggles	Gloves: Non-permeable: Neopreno, BU	VA-N.
Other clothing and equipment: Do not w	rear contaminated clothing.	
Work practices, hygienic practices: N/A		
Other handling and storage requirement		
	unination of food stuff. Avoid breathing vapors.	
Protective measures during maintenance		
	A an Administration and a browning a series	

We believe that the information contained in this M.S.D.S. is current. Since the use of this information and the condutions of the use of the information the condutions of Blue Magio Product. Inc. it is the usaw obligation to determine the conditions of safe use is product. The information herein is given in good faith, but no warranty, expressed or implied is made

N/A = Not Available or Not Applicable

N/E = Not established

TST Orange Power

1 of 4

PRODUCT NAME: TST Orange Power

NFPA CODES:

Health

Flammability

Reactivity n

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

PRODUCT CODE: 41197

======= SECTION I - MANUFACTURER IDENTIFICATION ============

0

MANUFACTURER'S NAME: Camco Manufacturing, Inc.

ADDRESS:

121 Landmark Drive

Greensboro, NC 27409

EMERGENCY PHONE : 1-800-535-5053

DATE REVISED: 10/04/2004

INFORMATION PHONE: 336-668-7661

NAME OF PREPARER: CAMCO MANUFACTURING INC.

121 LANDMARK DR. GREENSBORO, NC 27409

1-800-334-2004

===== SECTION II - COMPOSITION / INFORMATION ON MATERIALS =======

WEIGHT REPORTABLE COMPONENTS CAS NUMBER **PERCENT** Calcium Nitrate Tetrahydrate 13477-34-4 <72%

====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ========

BOILING RANGE: Not Determined **VAPOR DENSITY: Not Determined**

SOLUBILITY IN WATER: Completely Soluble

APPEARANCE AND ODOR: Orange; Citrus Fragrance

SPECIFIC GRAVITY (H2O=1): 1.452 @ 68° F

EVAPORATION RATE: N/A

2 of 4

TST Orange Power

======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ========

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A

UPPER: N/A

EXTINGUISHING MEDIA: Non-flammable. Use extinguisher appropriate for surrounding fire.

Water, Fog or Dry Chemical.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Flush with water if involved in a

fire or extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extreme heat could cause emission or

nitrogenous fumes.

STABILITY: Stable

CONDITIONS TO AVOID: Excessive temperatures and strong oxidizers

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Nitrogen Oxide

HAZARDOUS POLYMERIZATION: Do not occur

======== SECTION VI - HEALTH HAZARD DATA ==============

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Unlikely

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EYE CONTACT: May irritate the eyes if contact with material occurs.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN CONTACT: Frequent or prolonged contact may cause skin irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION: Swallowing large amounts may cause nausea and vomiting and may be harmful.

HEALTH HAZARDS (ACUTE AND CHRONIC): If swallowed, large amounts could be fatal.

CARCINOGENICITY: No.

TST Orange Power

NTP CARCINOGEN: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing is difficult, get medical attention.

EYE CONTACT: Flush with large quantities of water for 15 minutes and seek medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash skin with soap and water. Get medical attention for persistent irritation or any other symptom.

INGESTION: Induce vomiting. Dilute by giving water. Keep warm and quiet. Call physician. Do not induce vomiting or give water to anyone who is having trouble breathing, is unconscious, or having convulsions.

====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb liquid with inert solids and shovel into containers suitable for transport and disposal. If necessary, dike spill.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a cool, dry, well ventilated area.

OTHER PRECAUTIONS

None

========= SECTION VIII - CONTROL MEASURES ==========

RESPIRATORY PROTECTION

In well-ventilated areas, respiratory protection is not normally required.

TST Orange Power

VENTILATION: General ventilation is sufficient.

PROTECTIVE GLOVES: Wear appropriate impermeable gloves.

EYE PROTECTION:

Use chemical safety glasses or goggles for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: It is the responsibility of the user to determine the proper protective equipment that is needed based on how the product will be used.

WORK/HYGIENIC PRACTICES:

Wash thoroughly after handling.

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

4 of 4

SDS#:

879809_E_Initial

Product:

RV Stabilizer Jack Lube

Initial Date Prepared:

04/21/2022

Date Revised:

04/21/2022

Revision Number

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Product Name:

RV STABILIZER JACK LUBE

Supplier:

Camco Manufacturing, Inc. 121 Landmark Drive Greensboro, NC 27409 1-800-334-2004

Product Use:

Product Code:

Lubricant / Conditioner 41100 (15 mass oz., 425 grams) aerosol spray

1-800-535-5053

In case of Emergency:

2 – HAZARDS IDENTIFICATION:

Classification:

Aspiration Hazard Category 1

Flammable Aerosol......Category 1

Gases Under Pressure - Liquefied Gases

Hazard Pictogram(s):



Signal Word:

DANGER

Hazard Phrases:

H222.....Extremely Flammable Aerosol

H229....Pressurized Container: may burst if heated. H304.....May be fatal if swallowed and enters airways

Precaution Phrases:

P210.....Keep away from heat / sparks / open flames / hot surfaces - No

Smoking.

P211.....DO NOT spray on an open flame or other ignition source P251....Pressurized container – Do not pierce or burn, even after use.

Response Phrases:

P321....Specific treatment see Section 4, First Aid on this SDS.

P331.....Do Not Induce Vomiting

P301+P310IF SWALLOWED: immediately call a poison center or a doctor.

Storage and Disposal

Phrases:

P405.....Store Locked up.

P410+P412Protect from sunlight. Do not expose to temperatures exceeding

50ºC / 122ºF

P501.....Dispose of contents / container according to local, state regional, national, territorial, provincial, federal and international regulations.



SDS#:

879809_E_Initial

Product:

RV Stabilizer Jack Lube

Initial Date Prepared:

04/21/2022

Date Revised:

04/21/2022

Revision Number

3 - COMPOSITION, INFORMATION ON INGREDIENTS:

NAME Distillates (petroleum), hydrotreated light	<u>CAS</u> <u>NUMBER</u> 64742-47-8	% WEIGHT 65 – 75 *	CLASSIFICATION H227, 4, Combustible Liquid H304, 1, Aspiration Toxicity
Petroleum gases, liquefied sweetened (Propane/n-Butane)	68476-86-8	10 – 30 *	H220, 1 Flammable Gas H280, Liquefied Gas H304, 1, Aspiration Toxicity
Distillates (petroleum) hydrotreated middle	64742-46-7	3-7*	H304, 1, Aspiration Toxicity
2-butoxyethanol	111-76-2	1 – 5 *	H227, 4, Combustible Liquid H315, 2, Causes Skin Irritation H319, 2A, Causes Serious Eye Irritation H335, 3, May Cause Respiratory Irritation. H302+H312+H332, 4, Acute Toxicity: Oral, Dermal, Inhalation

^{*} Percent composition will vary by Product, from batch to batch or exact details are proprietary information.

4 - FIRST AID MEASURES:

General: Take proper precautions to ensure your own health and safety before attempting rescue and

providing first aid. Never attempt to give anything orally (by mouth) to a person that is unconscious. It you or another person feels unwell, seek medical advice. Show label to the

medical personnel if possible.

Eve Contact: Do not rub eyes. Rinse eyes carefully for at least 15 minutes with low-pressure water. If

contact lenses are present, remove if easy to do so. Continue rinsing. Seek medical

attention if irritation develops and persists.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water for at least 5

minutes. Seek medical attention if irritation develops or persists.

Inhalation: Move from exposure area to fresh air. Monitor breathing. Seek medical attention if feeling

unwell or problems breathing.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician to get medical advice if one feels unwell.

MOST IMPORTANT SYMPTOMS / EFFECTS. Acute and Delayed:

<u>General:</u> May cause irritation if in eyes.

Eve Contact: May cause irritation if in eyes.

Skin Contact: May cause skin irritation.

Inhalation: May cause respiratory irritation resulting in coughing, choking and / or wheezing.

Ingestion: Irritation of the gastrointestinal tract may develop with increased thirst, nausea, and / or

diarrhea.

5 - FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable: Alcohol foam, carbon dioxide, or dry chemical.



SDS#:

879809_E_Initial

Product:

RV Stabilizer Jack Lube

Initial Date Prepared:

04/21/2022

Date Revised:

04/21/2022

Revision Number

0

Unsuitable:

DO NOT use water as this may spread the fire.

Fire Hazard:

Flammable

Explosion Hazard:

Product is not explosive.

Special Hazards:

Combustion may produce irritating and /or toxic gases / fumes like oxides of carbon

and nitrogen.

6 - ACCIDENTAL RELEASE MEASURES:

Personal Precautions:

Prevent eye, contact. Avoid breathing vapors. Spilled material may present a slip

hazard on some surfaces.

Environmental

Prevent large spills from entering into soil, ditches, sewers, waterways and/or

Avoid contact with eyes, skin, and clothing. Avoid breathing mist. Wash hands

thoroughly after handling. Do not eat or drink after handling without washing hands.

Store in a cool, dry area. Keep containers dry and tightly closed to avoid moisture

Precautions:

groundwater. See Section 12 for Ecological Information/Data.

Containment and Clean up:

Stop spill or leak at source if safe to do so. Sweep / Vacuum up spillage and collect

in suitable container. Avoid generation of dust / ventilate area of spillage. .

7 - HANDLING AND STORAGE:

Precautions for Safe

Handling:

Conditions for safe

storage: Incompatible

Materials:

safe

absorption or contamination.

Keep away from open flames and high temperatures.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION:

Regulatory Exposure Limits (REL's): Listed below for the product components that have regulatory occupational exposure limits (OEL's) established. If no limits are displayed then no values were found or are applicable.

Component	CAS Number:	OSHA PEL	ACGIH TLV	NIOSH REL
Distillates (petroleum), hydrotreated light	64742-47-8	NDF	10 ppm	NDF
Petroleum gases, liquefied sweetened (Propane/n- Butane)	68476-86-8	5 mg/m³	5 mg/m³	
Distillates (petroleum) hydrotreated middle	64742-46-7	5 mg/m³	5 mg/m³	NDF
2- butoxyethanol	111-76-2	TWA: 240 mg/m³ TWA: 50 ppm	TWA: 20 ppm	TWA: 24 mg/m³ TWA: 5 ppm
Dutoxyethanoi		1 VVA. 30 ppili	<u> </u>	TVVA. 3 ppili

Engineering Controls: Ensure adequate ventilation / use in a well-ventilated area.

Personal Protection:

Eye Protection: Safety goggles, face shield, or safety glasses

Skin Protection: Chemical resistant gloves.



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Respiratory Protection:

General Hygiene:

Where ΦEL's maybe reached or exceeded consult with an industrial hygienist for

proper/approved respiration protection.

Do NOT eat, drink, smoke or use cosmetics when handling this material. Avoid

contact with eve. skin and clothing. Avoid breathing the mist.

9 - PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Light Yellow Aerosoi Liquefied gas liquid

Boiling Point (°C/°F): Not Determined

Physical State: mixture

Flash Point (°C/°F): Not Determined

Odor: Solvent Like

Flammable Limits in Air by Volume (%):

Odor Threshold (ppm): Not Determined

Lower: Not Determined

Method:

pH ():......N/Ap

Upper:Not Determined

Melting Point (°C/°F): Not Determined

Vapor Pressure (mm Hg @ 25°C): . Not Determined

Freeze Point (°C/°F):Not Determined Viscosity dynamic (cps @ ____°C):. Not Determined

Vapor Density: Not Determined

Viscosity kinematic (cps @ ___°C): Not Determined

Solubility, water: 0% Soluble

Specific Gravity (@ 25°C): 0.80 - 0.82 g/ml

Other: Auto-ignition Temperature (°C/°F) :. Not Determined

Not Determined

Decomposition Temperature

Not Determined

Evaporation Rate: \$ 0.8 (slow) Explosive Limits in Air by

Volume (%):

Partition Coefficient (n-octanol/water,

(°C/°F):

Volatile Organic Compounds (%):

Kow):.....

Not Determined

Lower: Not Determined

Upper:Not Determined

10 - STABILITY AND REACTIVITY:

Reactivity:

None Known.

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Flames, sparks, hot surfaces, heat, ignition sources.

Incompatible Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Decomposition may yield carbon monoxide and carbon dioxide.

Hazardous Polymerization:

Not expected to occur.

11 - TOXICOLOGICAL INFORMATION:

PRODUCT

Dermai LD50

Inhalation LC50

Toxicological Information on the product has not been determined.

If data was found / known for the individual components, it is presented below

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Component	<u>CAS</u> <u>Number:</u>	Oral LD50	Dermal LD50	Inhalation LC50
Distillates (petroleum), hydrotreated light	64742-47-8	Rat: > 5,000 mg/kg	Rabbit: > 5,000 mg/kg	Rat: > 5000 mg/m³ (8H)
Petroleum gases, liquefied sweetened (Propane/n- Butane)	68476-86-8	No Data Found	No Data Found	4h: 658 mg/L
Distillates (petroleum) hydrotreated middle	64742-46-7	Rat: > 5,000 mg/kg	Rabbit: > 2,000 mg/kg	Rat: 5266 mg/m³ (4H)
2-butoxyethanol	111-76-2	Rat: 1,300 mg/kg	Rat: > 2,000 mg/kg	Rat: >3.9 mg/L (4H) Guinea Pig 1h: >3.4 mg/L
Component		<u>CAS</u> <u>Number:</u>		
Distillates (petroleun) hydrotreated light	ım),	64742-47-8		
Skin Co	orrosion/Irritation	Drying leading to disco	omfort and dermatitis, base	ed on similar material as per
Serious Eye D	amage/Irritation	May cause mild short per OECD 405	term discomfort to eyes, b	ased on similar material as
Respirato	ory Sensitization	: Not expected to be a	respiratory sensitizer.	
<u></u>	kin Sensitization	Not expected to be a r	espiratory sensitizer, as pe	er, or similar too, OECD 406
	Carcinogenicity	,. Not expected to be a o ∸too, OECD 453.	carcinogen based on simila	ar material as per, or similar
Toxicity	to Reproduction	Not expected to be a r		on similar material as per,
Develo	pmental Toxicity	:No Information Found.		
Germ C	Cell Mutagenicity		mutagenic properties base	d on similar material as per, '9.
STOT -	Single exposure		e damage from a single ex	
STOT - Re	peated exposure	Not expected to cause Based on similar mate	e organ damage from prolo rials per, or similar too, OE	onged or repeated exposure. CD 408, 413.
<u></u>	spiration Toxicity	May be fatal if ewallow	wed and enters airways. Ba	
				
Petroleum gases, sweetened (Propa	liquefied .ne/n-Butane)	68476-86-8		
Skin Co	orrosion/Irritation	: Not Classified		
Serious Eye [Damage/Irritation	n: Not Classified		
Respirat	ory Sensitization	1: Not Classified		
<u>s</u>	kin Sensitization	n: Not Classified		
-	Carcinogenicity	<u>/:</u> Not Classified	·	



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Toxicity to Reproduction	Not Classified		
Developmental Toxicity	v: Not Classified		
Germ Cell Mutagenicity	Not Classified		
STOT - Single exposur	e Not Classified		
STOT - Repeated exposur	e Not Classified		
Aspiration Toxicity	Not Classified		
			
Distillates (petroleum) hydrotreate middle	64742-46-7		
Skin Corrosion/Irritation	Drying leading to discomfort and dermatitis, based on simila OECD 404	r material as	per
Serious Eye Damage/Irritation	May cause mild short term discomfort to eyes, based on simper OECD 405	ilar material	as
Respiratory Sensitization	Not expected to be a respiratory sensitizer.		
Skin Sensitization	Not expected to be a skin sensitizer, as per, or similar too, C	ECD 406	
Carcinogenicity	Not expected to cause cancer.		
Toxicity to Reproduction	Not expected to be a reproductive toxicant based on similar or similar too, OECD 414, 421, 422.	material as p	er,
Developmental Toxicity	No Information Found.		
Germ Cell Mutagenicity	Not expected to have mutagenic properties based on similal or similar too, OECD 471, 473, 474, 475, 483.	material as	per,
STOT – Single exposur	Not expected to cause damage from a single exposure.		
STOT - Repeated exposur	Based on similar materials per, or similar too, OECD 408, 41	1, 413.	ıre.
Aspiration Toxicity	. May be fatal if swallowed and enters airways. Based on phy properties of the material.	siochemical	
		<u></u>	
2-butoxyethanol	111-76-2	, 	
	: Rabbit, 24 h: moderate, causes Skin Irritation		
<u> </u>	: Rabbit, 24 h: moderate, causes serious eye irritation.	_	
	1: Not classified based on available information	II.	
Skin Sensitization	h: Guinea Pig: Not a skin sensitizer		
<u>Carcinogenicit</u>	v: Not classified based on available information		
Toxicity to Reproduction	n. Not classified based on available information OECD Test 416: Mouse, M&F, 2 Generation NOAEL:720 mg	ı/kg, Ingestio	<u>n</u>
Developmental Toxicit	y:Rat, M&F NOAEL:100 mg/kg, NOAEL:30 mg/kg; Ingestion		
Germ Cell Mutagenicit	In vitro: Salmonella typhyrium assay (Ames test): Negative y: In vivo: Chromosomal aberration intraperitoneal injection (M Negative	ouse Male):	
STOT - Single exposur	e May cause respiratory irritation.		



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STOT – Repeated exposu	Not classified based on a LOAEL (Rat, Oral): 69 m NOAEL (Rat, Dermal): 1 LOAEC (Rat, Inhalation)	ng/kg (Liver); 50 mg/kg;	
Aspiration Toxici	Not classified based on a	available information	
12 - ECOLOGICAL INFOR	MATION:		
PRODUCT			
Ecotoxicity Information on the pr	duct has not been determ	ined.	
If data was found / known for the	individual components, it is	s presented below	
Component	CAS Number:		
Distillates (petroleum), hydrotreated light	64742-47-8		
Hazards to Aquatic Environment:	Not expected to be harm Not expected to demonst		
Acute hazaro	:Fish: No Data Found		
	Aquatic Invertebrates:	No Data Found	
	Aquatic Plants: No Da	ta Found	
Chronic hazaro	:Fish: No Data Found		
	Aquatic Invertebrates:	No Data Found	
	Aquatic Plants: No Da	ta Found	
Persistence & Degradabil	y Biodegradation: Expect	ted to be inherently biod	legradable.
	BOD / COD Ratio: No	Data Found	
	Partition Coefficient (Log	P _{ow}): > 4.0	
Petroleum gases, liquefied sweetened (Propane/n-Butane)	68476-86-8		
Hazards to Aquatic Environment:			
Acute hazaro	s: Fish: No Data Found		
	Aquatic Invertebrates:	No Data Found	
	Aquatic Plants: No Da	ta Found	
Chronic hazaro	s: Fish: No Data Found		
	Aquatic Invertebrates:	No Data Found	
	Aquatic Plants: No Da	ta Found	
Persistence & Degradabil	y Biodegradațion: No dat	ta available for the gas.	
	BOD / COD Ratio: No	Data Found	
			ì



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	Partition Coefficient (Log Pow): <=2.8	
Distillates (petroleum) hydrotreate middle	64742-46-7	
Hazards to Aquatic Environment:	Not expected to be harmful to aquatic organisms. Not expected to demonstrate chronic toxicity to aquatic	organisms.
Acute hazards	EFish: LL0, Oncorhynchus mykiss, 96 hr: 87556 mg/	L
	Aquatic Invertebrates: EL0, Daphnia Magna, 48 hr: 10	000 mg/L
	Aquatic Plants: NOELR, Pseudokirchneriella subcap mg/L	
Chronic hazards	:Fish: No Data Found	
	Aquatic Invertebrates: NOELR, Daphnia Magna, 21 o	day: >= 1 mg/L
	Aquatic Plants: No Data Found	
Persistence & Degradabilit	Biodegradation: Readily biodegradable Media = Water, 28 days, 17.7 Percer	nt degraded.
	BOD / COD Ratio: No Data Found	
	Partition Coefficient (Log Pow): > 4.0 (estimated)	
2-butoxyethanol	111-76-2	
Hazards to Aquatic Environment:		
Acute hazards	Fish: No Data Found	
	Aquatic Invertebrates: No Data Found	
	Aquatic Plants: No Data Found	
Chronic hazards	:Fish: No Data Found	
	Aquatic Invertebrates: No Data Found	
	Aquatic Plants: No Data Found	
Persistence & Degradabilit	Biodegradation: No data available for the gas.	
	BOD / COD Ratio: No Data Found	
	Partition Coefficient (Log Pow): 0.8	

13 - DISPOSAL CONSIDERATIONS:

Disposal Instructions:

Dispose of waste material according to local, state, federal, and provincial regulations.

RCRA & Hazardous Waste:

It is the responsibility of the waste generator to determine the proper waste identification and disposal method. Consult RCRA, Title 40 CFR 261 for hazardous waste classification and disposal.



(Australia)

Components Listed

Or exempt

(Canada)

Components Listed

Or exempt

SAFETY DATA SHEET

SDS#: 879809_E_Initial Product: **RV Stabilizer Jack Lube** Initial Date Prepared: 04/21/2022 Date Revised: 04/21/2022 Revision Number 0 14 - TRANSPORT INFORMATION: US DOT per 49 CFR 100-185: Regulated Aerosols, Limited Quantity Proper Shipping Name: Hazard Class/Division: 2.1 **UN/NA Number** UN1950 Packing Group N/A IMDG: Refer to Current IMDG regulations for full shipping description requirements IATA: This material is not prepared or packaged for air transportation International shipping requirements must be determined by the party offering the material for transportation. The manufacturer does not offer this material for international shipping. 15 - REGULATORY INFORMATION: US ASSOCIATED REGULATIONS (for mixture components): **OSHA HAZARD** TSCA EPCRA 302 EPCRA 304 HazCom 2012, 29 CFR Extremely Hazardous 1910.1200 Substances **HAZARDOUS** Listed or Exempt None Listed None Listed SARA 311/312 EPCRA 313 CWA 307 / 311 CAA 112 **CAA 112** Toxic Chemicals Flammable Substances Toxic Substances) 64742-47-8 None Listed None Listed None Listed None Listed 64742-46-7 Following Ingredients are cited on the following lists: Component CAS Number: **List Citations** Distillates (petroleum), hydrotreated light 64742-47-8 18, 20 Petroleum gases, liquefied sweetened 68476-86-8 17 (Propane/n-Butane) Distillates (petroleum) hydrotreated middle 64742-46-7 1, 4, 18, 20 1 = ACGIH ALL 6 = TSCA 5a2 11 = CA Prop 65 Reproductive 16 = MA Right to Know 2 = ACGIH A1 7 = TSCA 5e 12 = CA Right to Know 17 = MN Right to Know 3 = ACGIH A2 TSCA 6 18 = NJ Right to Know 8 = 13 = IL Right to Know 4 = OSHA Z 9 = TSCA 12b 14 = LA Right to Know 19 = NY Right to Know 5 = TSCA 4 CA Prop 65 Cancer 20 = PA Right to Know 15 = 'MI 293 21 = RI Right to Know 20211208 California Prop 65: Non known **COUNTRY CHEMICAL LISTINGS**(for mixture components): **AICS** DSL



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16 - OTHER I	NFORMATION					
HMIS	Ratings:	HEALTH 2	FIRE 2		PHYSICA	L HAZARD
Hazard Scale: 0= Minimal	1 = Slight	2 = Moderate	3 = Serious	4 = Severe	* = Chro	nic Hazard

NFPA	A RATINGS: HEALT	H FLA		IABILITY 2	REACTIVITY 0	OTHER N/A
Hazard So 0= Minimal	_	Moderate	3	= Serious	4 = Severe	
ACRONYM	AS					
ACGIH:	American Conference of Gove Industrial Hygienists	ernmental		NFPA	National Fire Protection Associa	ion (US)
AICS:	Australian Inventory of Chemic Substances (AUS)	cal		NICNAS:	National Industrial Chemicals No Assessment Scheme	tification &
AUS:	Australia			NIOSH:	National Institute for Occupation Health (US)	al Safety and
CAA:	Clean Air Act (US)			NDA	No Data Available	
CAN:	Canada			NDF	No Data Found	
CDC:	Center for Disease Control (U	S)		NDSL	Non-Domestic Substances Inver	tory (CAN)
CFR:	Code of Federal Regulations ((US)		NOEC:	No Observed Effect Concentration	on On
CEPA:	Canadian Environmental Prote (CAN)	ection Act		NTP:	National Toxicology Program (U	S DHHS)
CERCLA:	Comprehensive Environmenta Compensation & Liability Act (OECD:	Organization for Economic Coop Development	eration and
CWA:	Clean Water Act (US)	•	1 0	OEL:	Occupational Exposure Limit	
DHHS:	Department of Health and Hur Services (US)	man		OSHA (US):	Occupational Safety and Health (US)	Administration
DOL:	Department of Labor (U\$)			PEL:	Permissible Exposure Limit	
DOT:	Department of Transportation	(US)		RCRA:	Resource Conservation and Rec US)	overy Act (EPS
DSL:	Domestic Substances List (CA	AN)		RTK:	Right to Know (US)	
ECHA:	European Chemicals Agency			RQ	Reportable Quantity	
EINECS	European Inventory of Existing Commercial Chemical Substa	nces		SARA:	Superfund Amendments and Re (US)	authorization Act
ELINCS	European List of Notified Cher Substances	mical		STEL:	Short Term Exposure Limit	
EPA:	Environmental Protection Age	• • •		STOT	Specific Target Organ Toxicity	
EPCRA:	Emergency Planning & Comm to-Know Act (US)	nunity Right-		TDG:	Transportation of Dangerous Go	ods (CAN)
GHS:	Global Harmonized System	į	2 0	TLV:	Threshold Limit Value	
GRAS:	Generally Regarded as Safe (•		TPQ:	Threshold Planning Quantity (US	SARA
HCIS:	Hazardous Chemical Informat (AUS)	ion System		TSCA	Toxic Substances Control Act	
HMIS	Hazardous Material Information	•		TWA:	Time Weighted Average	
IARC:	International Agency for Research	arch on		UEL	Upper Exposure Limit	
IATA:	International Air Transport Ass	sociation		US:	United States	



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IFRA:

International Fragrance Association

WEEL:

Workplace Environmental Exposure Level

IMDG:

International Maritime Dangerous Goods

WHIMS

Workplace Hazardous Material Information

3

LOEC:

Lowest Observed Effect Level

2 8 System (CAN)

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, LLC., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of their own use, handling and disposal of this product.

Pro-Strength Wash & Wax

Section 1- Chemical Product and Company Identification

Product Name:

Pro-Strength Wash & Wax

Supplier:

Camco Manufacturing, Inc. 121 Landmark Drive Greensboro, NC 27409 1-800-334-2004

Product Use:

Product Code:

Clean Agent 40493 (32 oz) and 40498 (Gallon)

Date of Preparation/Revision:

In case of Emergency:

December 12, 2014

1-800-535-5053

Section 2- Hazards identification

Physical State:

Liquid. [TRANSLUCENT, PALE YELLOW, LIQUID WITH CHARACTERISTIC

SWEET ODOR



WARNING

GHS Classifications

Eye Damage / Irritation (Category 2B) Acute Toxicity - Inhalation (Category 4) Skin Damage / Irritation (Category 3) Acute Oral Toxicity (Category 4)

Hazard Statements

H302 Harmful if swallowed H316 Causes mild skin irritation H320 Causes eye irritation H332 Harmful if inhaled

Precautionary statements

P102 Keep out of reach of children P233 Keep container tightly closed

P260 Do not breathe dust/furnes/gas/mist/vapors/spray

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

Response statements

P330 Rinse mouth

Do Not induce vomiting

P301 + P312 IF SWALLOWED: Call a Poison Center or Doctor/Physician if you feel unwell P304 + P340 + P313 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention

Pro-Strength Wash & Wax

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persist get medical attention

P332 + P313 If skin irritation persist get medical attention

P321 Specific treatment (see First Aid Measures on Safety Data Sheet)

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

WARNING! This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. This product is an aqueous solution which will not burn. Irritating and toxic fumes and gases may be released upon thermal processing or during combustion.

Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

Potential Health Effects: Skin

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing.

Medical Conditions Aggravated by Exposure

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

See toxicological information (section 11)

Section 3 - Composition, Information on Ingredients

<u>Name</u>		CAS Number	% Volum	ě
Bis-(2-hydroxethyl) (C12-15) a		71486-82-3	2 - 4%	_
Sodium Salt of Coco-amidopro	pyl Betaine	61789-89-7	1 - 3%	
Sodium Dodecylbenzene Sulfo	nate	25155-30-0	1 - 3%	
Methyl N,N'-bis-(2-hydroxyeth	yl) isodecyloxypropyl	68478-94-4	1 - 3%	
Ammonium Chloride			_ 5,0	

Component Information/Information on Non-Hazardous Components

This product is considered to be non-hazardous under 29 CFR 1910.1200

Pro-Strength Wash & Wax

Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.

Seek medical attention at once,

Skin contact For skin contact, wash immediately with soap and water. If irritation persists get medical

attention,

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not

induce vomiting. Dilute by giving water. Keep warm and quiet. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim

who is unconscious or is having convulsions.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

Notes to Physician Provide general supportive measures and treat symptomatically.

Section 5 - Fire-Fighting Measures

FLASH POINT: N/A METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

General Fire Hazards

This product is an aqueous solution which will not burn. Non-Flammable

Hazardous Combustion Products

Decomposition may yield carbon dioxide compounds and oxides of nitrogen.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental release measures

Containment Procedures

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

Pro-Strength Wash & Wax

Section 7- Handling and Storage

Handling Procedures

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

Section 9 - Physical and Chemical Properties

Appearance:

Light Straw Translucent Liquid

Odor:

Fresh Fragrance

Physical State: pH: (@59° F / 15° C)

8.0 to 9.5

Liquid

Freeze Point:

32° F (0° C)

Vapor pressure: Vapor density:

Not Applicable Not Applicable

Boiling Point:

>212°F (>100° C)

Pro-Strength Wash & Wax

Melting Point: Not Determined Solubility: Completely Specific Gravity: (@70° F / 21° C) 1.018

Flash Point (PMCC): Not Flammable Auto-ignition Temperature: Not Flammable Flammable Limits in Air by Volume: Not Applicable **Evaporation Rate:** Similar to Water **Decomposition Temperature:** Not Available

Viscosity (cps): 100 - 300 cpsVOC (%): < 2% by weight

Physical Properties: Additional Information No additional information available

Section 10 - Stability and Reactivity

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and incompatible materials.

Incompatibility

This product is incompatible with strong oxidizing agents.

Hazardous Decomposition

Decomposition may yield carbon dioxide, carbon monoxide and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity **General Product Information**

No information available for the product.

This product may cause methemoglobinemia upon ingestion characterized by cyahosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

No information available for the product.

Epidemiology

No epidemiological data is available for this product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Other Toxicological Information

No additional information available.

Pro-Strength Wash & Wax

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport information

US DOT Information

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

IMDG

Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

General Product Information

Product is biodegradable. No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/3/12 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found

Pro-Strength Wash & Wax

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.

Louisiana Spill: This material is not listed.

Massachusetts Spill: This material is not listed.

Massachusetts Substances: This material is listed.

Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed. New York Acutely Hazardous Substances: This material is not listed. New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances: This material is listed. Rhode Island Hazardous Substances: This material is not listed

California Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Additional Regulatory Information

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

Section 16 - Other information

NFPA CODES: Health 1
Flammability 1
Reactivity 0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: December 12, 2014 (Supersedes all previous SDS)

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of their own use, handling and disposal of this product.

Ronson 165 gram Butane Fuel

PRODUCT NAME: Ronson 165 gram Butane Fuel

NFPA CODES:

Health

Flammability

4

Reactivity

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

PRODUCT CODE: 57496

====== SECTION | - MANUFACTURER IDENTIFICATION ==========

MANUFACTURER'S NAME: Camco Manufacturing, Inc.

ADDRESS:

121 Landmark Drive

Greensboro, NC 27409

EMERGENCY PHONE |: 1-800-535-5053

DATE REVISED: 10/06/2004

INFORMATION PHONE : 336-668-7661

NAME OF PREPARER:

CAMCO MANUFACTURING INC.

121 LANDMARK DR.

GREENSBORO, NC 27409

1-800-334-2004

====== SECTION II - COMPOSITION / INFORMATION ON MATERIALS=======

VAPOR PRESSURE WEIGHT PERCENT REPORTABLE COMPONENTS **CAS NUMBER** mm Hg @ TEMP 100 75-28-5 Iso-Butane

======= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ========

BOILING RANGE: 10 - 11° F

VAPOR DENSITY: 2

SOLUBILITY IN WATER: Slightly Soluble

APPEARANCE AND ODOR: Clear, Colorless Gas **SPECIFIC GRAVITY (H2O=1):** 0.56 @ 68° F

EVAPORATION RATE: >1

Ronson 165 gram Butane Fuel

FLASH POINT: -76° F **METHOD USED: CC** UPPER: 8.4% **EXPLOSIVE LIMITS FOR 100% METHANOL - LOWER: 1.8%** EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or mist. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. UNUSUAL FIRE AND EXPLOSION HAZARDS: Handle as an extremely flammable liquid. Butane vapors are lighter than air and disperse quickly in air or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near container, even if it is empty. **STABILITY: Stable CONDITIONS TO AVOID: Excessive heat** INCOMPATIBILITY (MATERIALS TO AVOID): Reacts vigorously with oxidizing agents. HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide and carbon monoxide. HAZARDOUS POLYMERIZATION: Do not occur INHALATION: Breathing of vapor or mist is possible. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts can be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

EYE: May cause mild irritation. Symptoms include stinging, tearing, and redness.

3 of 5

MATERIAL SAFETY DATA SHEET

Ronson 165 gram Butane Fuel

SKIN: May cause mild irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin.

INGESTION: Swallowing this material may be harmful.

SYMPTOMS OF EXPOSURE: Symptoms of exposure may include: nausea, vomiting, diarrhea, irritation (nose, throat, airways), dizziness, drowsiness, weakness, fatigue, headache, unconsciousness, leg cramps, pain in the abdomen and lower back, blurred vision, shortness of breath, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), visual impairment (including blindness).

HEALTH HAZARDS (ACUTE AND CHRONIC): Non-Toxic – But may displace oxygen in air. No apparent ill effects in breathing concentrations of 5% for 2 hours.

CARCINOGENICITY: No.

NTP CARCINOGEN: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move individual to fresh air. If symptoms persist seek medical attention. If breathing is difficult administer oxygen provided a qualified operator is present.

EYE CONTACT: Flush immediately with large quantities of water for 15 minutes, lifting eye lids to ensure that all surfaces are flushed. Seek medical attention.

SKIN: Remove contaminated clothing and wash contaminated skin with large amounts of soap and water. If irritation persists, get medical attention. Launder clothing before reuse.

INGESTION: Seek medical attention immediately. If individual is conscious, they may dilute by drinking water. If individual is drowsy or unconscious, do not give anything by mouth. Under either circumstance, do not leave the individual unattended if at all possible. Contact a physician, medical facility, or poison control center immediately.

Ronson 165 gram Butane Fuel

====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources, such as flames, hot surfaces, and sources of electrical, static or frictional sparks. Absorb liquid with absorbent material. If necessary, contain spill by diking.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

No smoking or open flame in storage use or handling areas. Avoid storage with incompatible materials.

OTHER PRECAUTIONS

Store in closed containers in a cool, dry, well ventilated area. Keep away from sparks and open flame.

========= SECTION VIII - CONTROL MEASURES =============

RESPIRATORY PROTECTION

Use an approved NIOSH approved respirator when airborne concentrations exceed exposure limits.

VENTILATION: Provide sufficient ventilation to maintain airborne concentrations, below exposure limits.

PROTECTIVE GLOVES: Wear appropriate impermeable gloves

EYE PROTECTION:

Use chemical safety glasses, goggles, or faceshields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: It is the responsibility of the user to determine the proper protective equipment that is needed based on how the product will be used.

WORK/HYGIENIC PRACTICES:

Wash thoroughly after handling.

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Ronson 165 gram Butane Fuel

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016

1 Identification

- · Product identifier
- · Trade name: Pentofrost SF
- · Recommended use and restriction on use
- · Recommended use: Coolant / Anti-freeze.
- · Restrictions on use: Contact manufacturer/supplier
- Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

CRP Industries 35 Commerce Dr. Cranbury, NJ 08512 (609) 578-4100

info@crpindustries.com

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS08

Signal word: Warning

· Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

· Precautionary statements:

P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

(Cont'd. on page 2)

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Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016	3/2016 Revision: 12/13/2016	
Trade name: Pentofrost SF		
Health = 1 Reactivity = 0 HIS-ratings (scale 0 - 4) Health = 1 Reactivity = 0 HIS-ratings (scale 0 - 4) HEALTH I Health = *1 FIRE I REACTIVITY Reactivity = 0		(Cont'd, of page 1)
	on on ingradients	
3 Composition/information	A second	
· Chemical characterization:	Mixtures	
Components: 107-21-1 ethylene glycol STOT RE 2, H Acute Tox. 4, I	373 302	>80%
1310-73-2 sodium hydroxide	290; Skin Corr. 1A, H314; Eye Dam. 1, H318	0.1-<0.5%
· Additional information: For	the wording of the listed Hazard Statements refer to section	16.
4 First-aid measures		11
hours after the accident. After inhalation: Supply fres After skin contact: Immediately wash with water If skin irritation continues, cor After eye contact: Remove contact lenses if wo Rinse opened eye for severa After swallowing: Rinse out mouth and then dr Do not induce vomiting; immediates.	even occur after several hours; therefore medical observation hair; consult doctor in case of complaints. and soap and rinse thoroughly. Insult a doctor. Insult a doctor in case of complaints. I minutes under running water. If symptoms persist, consult	
Disorientation		(Cont'd. on page 3)

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016

Trade name: Pentofrost SF

(Cont'd, of page 2)

· Danger:

Harmful if swallowed.

May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

Indication of any immediate medical attention and special treatment needed:

Contains ethylene glycol. Consult literature for specific antidotes.

Monitor circulation, possible shock treatment.

Medical supervision for at least 48 hours.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information:

Cool endangered receptacles with water spray.

No relevant information available.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Cont'd. on page 4)

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016

Trade name: Pentofrost SF

(Cont'd. of page 3)

7 Handling and storage

- · Handling
- · Precautions for safe handling:

Use only in well ventilated areas.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s) No relevant information available.

Exposure co	ntrols/nerso	nal protection	
Exposure oo	1111013/pc130	mai proteotion	
Control param	eters		ĺ
Components w	ith limit values	that require monitoring at the workplace:	
107-21-1 ethyle	ne glycol		
TLV (USA)	Long-term value Ceiling limit value	ue: NIC-127* NIC-10** mg/m³, NIC-50* ppm ue: NIC-63.5* mg/m³, NIC-25* ppm ue: (100) mg/m³ on + vapor,P:**inh. fraction, H	
EL (Canada)			
EV (Canada)	Ceiling limit val	lue: 100 mg/m³	
LMPE (Mexico)	Ceiling limit val A4, *solo aeros		
1310-73-2 sodi	ım hydroxide		
PEL (USA)	Long-term value	e: 2 mg/m³	
REL (USA)	Ceiling limit val	ue: 2 mg/m³	
TLV (USA)	Ceiling limit val	ue: 2 mg/m³	
EL (Canada)	Ceiling limit val	lue: 2 mg/m³	
EV (Canada)	Ceiling limit val	lue: 2 mg/m³	
LMPE (Mexico)	Ceiling limit val	lue: 2 mg/m³	
			(Cont'd, on page

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations Revision: 12/13/2016 Printing date: 12/13/2016 Trade name: Pentofrost SF (Cont'd, of page 4) Exposure controls · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Engineering controls: Provide adequate ventilation. · Breathing equipment: Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used. · Protection of hands: Gloves not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR Neoprene gloves Nitrile rubber, NBR Eye protection: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. **Body protection:** Not required under normal conditions of use. Protection may be required for spills. · Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures

See Section 7 for additional information.

(Cont'd. on page 6)

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Revision: 12/13/2016 Printing date: 12/13/2016 Trade name: Pentofrost SF (Cont'd. of page 5) No relevant information available. 9 Physical and chemical properties Information on basic physical and chemical properties · Appearance: Form: Liquid Color: Red · Odor: Liaht · Odor threshold: Not determined. · pH-value at 20 °C (68 °F): 7.9 (50% solution) Not determined. Melting point/Melting range: · Boiling point/Boiling range: 175 °C (347 °F) 128 °C (262 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. >260 °C (>500 °F) · Auto-ignition temperature: Not determined. · Decomposition temperature: · Danger of explosion: Product does not present an explosion hazard. · Explosion limits 3.2 Vol % Lower: 53.0 Vol % Upper: · Vapor pressure at 20 °C (68 °F): 0.1 hPa · Density at 20 °C (68 °F): 1.13 g/cm3 (9.43 lbs/gal) · Relative density: Not determined. Not determined. · Vapor density: · Evaporation rate: Not determined. · Solubility in / Miscibility with Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity Dynamic: Not determined. Kinematic: Not determined. Other information No relevant information available. 10 Stability and reactivity · Reactivity: No relevant information available. · Chemical stability: · Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. (Cont'd. on page 7)

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016 Trade name: Pentofrost SF (Cont'd, of page 6) · Possibility of hazardous reactions No dangerous reactions known. · Conditions to avoid No relevant information available. · Incompatible materials No relevant information available. · Hazardous decomposition products Possible in traces. 11 Toxicological information · Information on toxicological effects · Acute toxicity: LD/LC50 values that are relevant for classification: 107-21-1 ethylene glycol Oral LD50 5840 mg/kg (rat) Dermal LD50 9530 mg/kg (rabbit) Primary irritant effect: · On the skin: Slight irritant effect on skin and mucous membranes. · On the eye: Based on available data, the classification criteria are not met. · Sensitization: No sensitizing effects known. · IARC (International Agency for Research on Cancer): None of the ingredients are listed. · NTP (National Toxicology Program): None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. · Probable route(s) of exposure: Ingestion. Inhalation. Eve contact. Skin contact. · Acute effects (acute toxicity, irritation and corrosivity); Harmful if swallowed. · Repeated dose toxicity: May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral, · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) · Germ cell mutagenicity: Based on available data, the classification criteria are not met. · Carcinogenicity: Based on available data, the classification criteria are not met. · Reproductive toxicity: Based on available data, the classification criteria are not met. · STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: May cause damage to the kidneys through prolonged or repeated exposure, Route of exposure; Oral. Aspiration hazard: Based on available data, the classification criteria are not met. (Cont'd. on page 8)

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(Cont'd, on page 9)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016	Rev	 rision: 12/13/2016
Trade name: Pentofrost SF		
		(Cont'd. of page 7)
12 Ecological information		
 Bioaccumulative potential: I • Mobility in soil: No relevant in • Additional ecological info • General notes: 	bility Moderately /partly biodegradable Does not accumulate in organisms Information available. Irmation ct or large quantities of it to reach ground water, water coassessment	ourse or sewage
compliance with all relevant le and disposal for hazardous an Uncleaned packagings Recommendation: Disposal r	recycling information. the responsibility to dispose of unused material, residues a ocal, state and federal laws and regulations regarding tre	and containers in eatment, storage
14 Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR, IMDG, IATA	Not regulated.	
Transport hazard class(es DOT, ADR, IMDG, IATA Class	Not regulated.	
Packing group DOT, ADR, IMDG, IATA	Not regulated.	
· Environmental hazards · Marine pollutant:	No	-

No

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016 Trade name: Pentofrost SF (Cont'd, of page 8) Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) ·SARA Section 302 (extremely hazardous substances): None of the ingredients are listed. · Section 355 (extremely hazardous substances): None of the ingredients are listed. · Section 313 (Specific toxic chemical listings): 107-21-1 ethylene glycol TSCA (Toxic Substances Control Act) All ingredients are listed. Proposition 65 (California) · Chemicals known to cause cancer: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: None of the ingredients are listed. · Carcinogenic categories EPA (Environmental Protection Agency): None of the ingredients are listed. · IARC (International Agency for Research on Cancer): None of the ingredients are listed. · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. · Canadian Domestic Substances List (DSL): All ingredients are listed. (Cont'd. on page 10)

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 12/13/2016 Revision: 12/13/2016

Trade name: Pentofrost SF

(Cont'd. of page 9)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision 12/13/2016 / -

· Abbreviations and acronyms:

ADR; European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

LDLo: Lowest Lethal Dose Observed

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

· Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com







Super ATF

M

, @H .	CHEMICAL NAME	AFF	`` <u>.</u>
OF P	MANUFACTURER	Phillie	15
Ø PF	DATE / T.O.	DE	<u></u>
Lab Safety Supply I		R	sorder No. 1713

13 Product and Company Identification

Product Name:

Super ATF

MSDS Number:

778846

Intended Use:

radiad

Automatic Transmission Fluid

Manufacturer/Supplier:

ConocoPhillips Lubricants 600 N. Dairy Ashford

Houston, Texas 77079-1175

Emergency Health and Safety Number:

Chemtrec: 800-424-9300 (24 Hours)

Customer Service:

888-766-7676

Technical Information:

800-255-9556

MSDS Information:

Internet: http://w3.conocophillips.com/NetMSDS/

2. Hazards Identification:

Emergency Overview

NFPA

This material is not considered hazardous according to OSHA criteria.



Appearance: Red Physical Form: Liquid Odor: Petroleum

Potential Health Effects

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Contact may cause mild skin irritation including redness and a burning sensation. Prolonged or repeated contact can defat the skin, causing drying and cracking of the skin, and possibly dermatitis (inflammation). No harmful effects from skin absorption are expected.

Inhalation (Breathing): No information available on acute toxicity.

Ingestion (Swallowing): No harmful effects expected from ingestion.

Signs and Symptoms: Effects of overexposure may include irritation of the digestive tract, nausea and diarrhea. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

See Section 11 for additional Toxicity Information.

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Composition//Information on Ingredients

·	<u>.</u>	
noopenis veres and a second	PART OF THE CASENCY OF SECURITY	Concentration /
Lubricant Base Oil (Petroleum)	VARIOUS	>90
Additives	PROPRIETARY	<10

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4 First Aid Vieasures

Eye Contact: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If symptoms persist, seek medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Notes to Physician: Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. Fire-Eighting Weasures 1.

NFPA 704 Hazard Class

nith: 0 Flammability: 1

Instability: 0

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

rupture in the heat of a fire.

This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

6 Accidental Release Measures

Personal Precautions: This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and orecautionary measures.

vironmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, er unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

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lethods for Containment and Clean-Up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup my spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or miculite, and place in suitable container for disposal.

7 all and ling and Storage (1997)

Precautions for safe handling: Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Conditions for safe storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of Ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. Exposure Controls//Personal/Protection.

Componentia	PULLE STUSTAGGIRIS#437	CAUPEN COSHACE CONTROL	Service Continue Cont
Lubricant Base Oil (Petroleum)	TWA: 5mg/m ³	TWA: 5 mg/m ³	_
	STEL: 10 mg/m³	as Oil Mist, if generated	
<u> </u>	as Oil Mist, if generated	<u> </u>	·,]

e: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Eye/Face Protection: The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

Skin/Hand Protection: The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

Respiratory Protection: Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

9. Physical and Chemical Properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are of intended to be specifications.

Appearance: Physical Form: Odor:

Odor Threshold:

Red_CLCAR Liquid Petroleum

No data

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pH:

Vapor Pressure: Vapor Density (air≔1):

Boiling Point/Range: Melting/Freezing Point: Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity: Bulk Density: Viscosity:

Percent Volatile: Evaporation Rate (nBuAc=1):

Flash Point:

Test Method: LEL (vol % in air): UEL (vol % in air):

UEL (vol % in air): Autolgnition Temperature: Not applicable

<1.mm Hg

>1

No data No data Negligible No data

0.86 - 0.87 @ 60°F (15.6°C)

7.17 - 7.25 lbs/gal

7.1 - 8.1 cSt @ 100°C; 30.0 - 39.4 cSt @ 40°C

Negligible

<1

Minimum 315°F / 157°C

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

No data

No data

10 - Stability and Reactivity

Stability: Stable under normal ambient and anticipated conditions of use.

Conditions to Avoid: Extended exposure to high temperatures can cause decomposition.

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous Decomposition Products: Not anticipated under normal conditions of use.

Hazardous Polymerization: Not known to occur.

12 Toxicological Information

i onic Data:

Lubricant Base Oil (Petroleum)

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

Acute Data:

Components	######################################	accessor Dermal(UD50)	Inhalation (C50 x)
Lubricant Base Oil (Petroleum)	>5 g/kg	>2 g/kg	No data
			· · · · · · · · · · · · · · · · · · ·

12. Ecological Information

Ecotoxicity: Experimental studies show that acute aquatic toxicity values are greater than 1000 mg/l. These values are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

Mobility: Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of base oil components in soil and sediment.

Persistence and degradability: The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

Sioaccumulation Potential: Log Kow values measured for the hydrocarbon components of this material range from 4 to over 6, and perefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

.... Disposal Considerations

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18-4Disposal Considerations

generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle Used Oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

14 Transportation Information

U.S. Department of Transportation (DOT)

Shipping Description:

Not regulated

Note:

If shipped by land in a packaging having a capacity of 3,500 gallons or more, the

provisions of 49 CFR, Part 130 apply. (Contains oil)

International Maritime Dangerous Goods (IMDG)

Shipping Description:

Not regulated

Note:

U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #: Note: Not regulated

U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.

15 Regulatory Information

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health: No
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

CERCLA/SARA - Section 313 and 40 CFR 372:

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

EPA (CERCLA) Reportable Quantity (in pounds):

This material does not contain any chemicals with CERCLA Reportable Quantities.

California Proposition 65:

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other eproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

nadian Regulations:

...s product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Regulations.

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WHMIS Hazard Class

None

...tlonal Chemical Inventories:

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements.

U.S. Export Control Classification Number: EAR99

16. Other Information

References used in compiling safety data sheet information:

Dangerous Substances Directive 67/548/EEC

Date of Issue:

Status:

Revised Sections or Basis for Revision:

MSDS Number:

02-Sep-2008

Final

Composition (Section 3)

Physical Properties (Section 9)

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Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Agreement on Dangerous Goods by Road; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); EINECS - European Inventory of Existing Commercial Chemical Substances; EPA = [US] Environmental Protection Agency; Germany-TRGS = Technical Rules for Dangerous Substances; IARC = International Agency for Research on Cancer; ICAO/IATA = International Civil Aviation Organization / International Air Transport Association; IMDG = International Maritime Dangerous Goods; Ireland-HSA = Ireland's National Health and Safety Authority; LEL = Lower Explosive Limit; N/A = Not Applicable; N/D = Not Determined; NTP = [US] National Toxicology Program; RID = Regulations Concerning the International Transport of Dangerous Goods by Rail; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value; TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; UK-EH40 = United Kingdom EH40/2005 Workplace Exposure Limits

Disclaimer of Expressed and Implied Warranties:

information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material lety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Boiler Antifreeze -100

Section 1- Chemical Product and Company Identification

Product Name:

Boiler Antifreeze -100

Supplier:

Camco Manufacturing, Inc. 121 Landmark Drive

Greensboro, NC 27409

1-800-334-2004

Product Use:

Antifreeze

Product Code:

30027 (Gallon), 30029 (5 Gallon) and 30028 (55 Gallon Drum)

Date of Preparation/Revision:

September 15, 2017

In case of Emergency:

1-800-535-5053

Section 2- Hazards identification

Physical State:

Liquid. [CLEAR, RED, LIQUID WITH CHARACTERISTIC SWEET ODOR]

WARNING

GHS Classifications

Skin irritation (Category 3) Eye irritation (Category 2B)

Hazard Statements

H316 Causes mild skin irritation.

H320 Causes eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling

Response statements

P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists get medical advice/attention

P332+313 If skin irritation occurs: Get medical advice/attention

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

This material is NOT HAZARDOUS by OSHA Hazard Communication definition.

Slightly combustible liquid. Do not handle near heat, sparks, or open flame.

Warning! May cause minor eye irritation. High aerosol concentrations may cause mild irritation of the nose and throat as well as central nervous system depression. Not expected to cause skin irritation. Not expected to be a sensitizer.

Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

Potential Health Effects: Skin

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

Potential Health Effects: Ingestion

Ingestion of high doses may cause discomfort and irritation of the gastrointestinal tract

Boiler Antifreeze -100

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing. High aerosol concentrations may cause mild reversible irritation of the nose and throat as well as CNS depression

Medical Conditions Aggravated by Exposure

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

See toxicological information (section 11

Section 3 - Composition, Information on Ingredients

<u>Name</u>	CAS Number	<u>% Volume</u>
Propylene Glycol	57-55-6	60 - 65%
Dipotassium Phosphate	7758-11-4	1 - 5%

Component Related Regulatory Information

This product is not regulated as defined by 49CFR 172.101 by the US Department of Transportation.

Component Information/Information on Non-Hazardous Components

This product is considered to be non-hazardous by 29 CFR 1910.1200

Section 4 - First Aid Measures

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 3 of this MSDS.

Eye contact	Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15
•	minutes, occasionally lifting the upper and lower evelids, If irritation persists, seek

medical attention.

Skin contact Not expected to present a significant skin hazard under anticipated conditions of normal

use. If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

Ingestion Ingestion unlikely. If large quantity swallowed, give lukewarm water (pint/ 1/2 litre) if

victim completely conscious/alert. Obtain medical attention. Never give anything by

mouth to a victim who is unconscious or is having convulsions.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

Notes to Physician

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 - Fire-Fighting Measures

FLASH POINT: 228.2 °F (109 °C) METHOD USED: PMCC AUTO-IGNITION TEMPERATURE: 699.8 °F (371 °C)

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: ~ 2.4 voi % UPPER: ~ 17.4 vol %

General Fire Hazards

This product is an aqueous solution which will not burn. Non-Flammable

Boiler Antifreeze -100

Hazardous Combustion Products

Decomposition may yield carbon monoxide compounds and other toxic gases.

Extinguishing Media

SMALL FIRE: Use dry chemicals, CO2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire Fighting Guidance:

Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. May travel long distances along the ground before igniting and flashing back to vapor sources. Fine sprays/mists may be combustible at temperatures below normal flash point. Aqueous solutions containing less than 95% propylene glycol by weight have no flash point as obtained by standard test methods. However aqueous solutions of propylene glycol greater than 22% by weight, if heated sufficiently, will produce flammable vapors. Always drain and flush systems containing propylene glycol with water before welding or other maintenance. Refer to NFPA Code 13 for guidance in using propylene glycol in sprinkler system applications. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

NFPA Ratings: Health: 0 Fire: 1 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental release measures

Containment Procedures

In case of accidental spill, may contaminate water supplies/pollute public waters. Evacuate/limit access. Equip responders with proper protection. Extinguish ignition sources; stop release; prevent flow to sewers or public waters. Notify fire and environmental authorities. Restrict water use for cleanup. Slippery walking/spread granular cover or soak up. Impound/recover large land spill; soak up small spill with inert solids. Use suitable disposal containers. On water, material is soluble and will disperse rapidly unless contained and collected quickly to minimize dispersion. Report per regulatory requirements.

Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

Section 7- Handling and Storage

Handling Procedures

Hygroscopic. Handle with care. After handling, always wash hands thoroughly with soap and water. Always drain and flush systems containing propylene glycol with water before welding or other maintenance. Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry.

Boiler Antifreeze -100

Storage Procedures

Hygroscopic, Keep drums tightly closed to prevent contamination. Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Store at 65-90°F (18-32°C), Stainless steel containers. Lined steel. Mild steel. Reinforced plastic. Use dry nitrogen or low dew point air for tank padding.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

Section 9 - Physical and Chemical Properties

Clear Red Liquid Appearance:

No Odor Odor: Liquid Physical State:

7.5 - 9.5pH: (@59° F / 15° C) -70° F (-56.67° C) Freeze Point: Not Applicable Vapor pressure: Not Applicable Vapor density: >228°F (>109° C) Boiling Point: **Melting Point:** Not Determined

Solubility (Water): Completely

Specific Gravity: (@70° F / 21° C) 1.040 -100° F (-73.3° C) **Burst Protection:** 228.2° F (109 °C) Flash Point (PMCC):

699.8° F (371 °C) Auto-ignition Temperature: LOWER: ~ 2.4 vol % UPPER: ~ 17.4 vol %

Flammable Limits in Air by Volume:

Evaporation Rate: Similar to Water 329° F (165°C) Decomposition Temperature:

Viscosity (cps): < 50cps

Physical Properties: Additional Information No additional information available

Boiler Antifreeze -100

Section 10 - Stability and Reactivity

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and oxidizing agents.

Incompatibility

Reacts with strong oxidizing agents, strong acid and Isocyanates.

Hazardous Decomposition

Decomposition may yield carbon monoxide and other toxic fumes.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Product Summary

No additional toxicology information is available for this product itself. (See Component Toxicity Information).

Component Information

Propylene Glycol 57-55-6

Acute Toxicity - Lethal Doses

LD50 (Oral) Rat 22,000 MG/KG BWT LD50 (Skin) Rabbit, 20,800 MG/KG BWT

Irritation

Skin: Slight skin irritant. Repeated or prolonged contact with skin may cause dermatitis.

Eye: May cause minor eye irritation. Effects of eye irritation are reversible.

Sensitization

Not expected to cause sensitization by skin contact, however skin reactions of unknown etiology have been described in some hypersensitive individuals following topical application.

Target Organ Effects

Skin: Repeated or prolonged contact with skin may cause defatting and drying of the skin which may result in dermatitis.

Repeated Dose Toxicity

No adverse systemic changes were reported in rats or dogs following repeated dietary exposure to high concentrations of propylene glycol. Cats responded with species-specific hematological changes (Heinz body formation) yet all other tissues were unaffected. No systemic effects, but mild eye and nasal irritation were noted in rats following sub-chronic exposure to high concentrations of propylene glycol aerosol. Overall propylene glycol is of low inherent toxicity following repeated oral or inhalation exposure.

Reproductive Effects

No adverse effect on reproductive performance was seen in male and female mice exposed continuously to high doses of propylene glycol in drinking water for up to 3 months.

Developmental Effects

Results from studies in pregnant rats, mice, hamsters and rabbits demonstrate that propylene glycol is not teratogenic or fetotoxic.

Genetic Toxicity

Negative for genotoxicity both in vitro and in vivo tests.

Boiler Antifreeze -100

Carcinogenicity

No increase in tumors was noted in rats and dogs exposed to high concentrations of propylene glycol via the diet for up to 2 years. The incidence of skin tumors was unaltered in mice following dermal application over a lifetime. Not listed by IARC, NTP, or OSHA.

Other Toxicological Information

No additional information available.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

This material is expected to be non-hazardous to aquatic species.

B: Component Analysis - Ecotoxicity

Propylene Glycol

Ecotoxicity

This material is expected to be non-hazardous to aquatic species.

Acute toxicity to fish

LC50 / 96 HOUR fathead minnow 51,400 mg/l

LC50 / 96 HOUR salmon 51,600 mg/l

Acute toxicity to aquatic invertebrates

EC50 / 48 HOUR Daphnia magna, 43,500 mg/l

EC50 / 48 HOUR saltwater mysid. 27,300 mg/l

Toxicity to aquatic plants

EC50 / 72 HOUR Freshwater Algae. 24,200 mg/l

EC50 / 72 HOUR Marine algae 19,300 mg/l

Toxicity to microorganisms

Summary: No Data Available.

Chronic toxicity to fish

Summary: No Data Available.

Chronic toxicity to aquatic invertebrates

IC25 / waterflea. 13,470 mg/l

Summary: A three generation reproductive study.

Environmental Fate

No other data available for this product.

Section 13 - Disposal Considerations

Comply with federal, state, or local regulations for disposal. Landfill solids at permitted sites. Burn concentrated liquids, diluting with clean, low viscosity fuel. Avoid flameouts and assure that emissions comply with all applicable standards/regulations. Dilute aqueous waste may biodegrade. Assure effluent complies with applicable regulations.

Section 14 - Transport Information

US DOT Information

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

IMDG

Refer to Current IMDG regulations for full shipping description requirements

Boiler Antifreeze -100

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

General Product Information

Product is listed under the TSCA. No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: Chemicals with provided CAS numbers in this material are not subject to the reporting requirements of CERCLA.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Based upon available information, this material

is not classified as a health and/or physical hazard according to Section 311 & 312.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed. Louisiana Spill: This material is not listed. Massachusetts Spill: This material is not listed.

Massachusetts Substances List:

Extraordinarily hazardous substances must be identified when present in materials at levels greater than state specified criterion. The criterion is >= 0.0001%. Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is >= 1%. Components with CAS numbers present in this material, at levels specified in Section 2 - Composition do not require reporting under the statute.

Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed.

New Jersey Hazardou's Substances: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed.

New York Acutely Hazardous Substances: This material is not listed.

New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances:

Hazardous Substances listed by the State of Pennsylvania must be identified when present in materials at levels greater than the state specified criterion. The criterion is >= 1%. Components with CAS numbers in this material at a level which could require reporting under the statute are: **Propylene Glycol**

Special Hazardous Substances listed by the State of Pennsylvania must be identified when present in materials at levels greater than the state specified criterion. The criterion

Boiler Antifreeze -100

is >= 0.01%. Components with CAS numbers present in this material, at levels specified in Section 2 - Components, do not require reporting under the statute.

Rhode Island Hazardous Substances: This material is not listed California Prop 65 Warning:

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

Additional Regulatory Information

A: General Product Information

All components are on the U.S. EPA TSCA inventory List.

Section 16 - Other information

NFPA CODES: Health	0
Flammability	1
Reactivity	0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: September 15, 2017 (Supersedes all previous MSDS and SDS)

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of their own use, handling and disposal of this product.

Concrobium House and Deck Wash

Issuing Date: May 11, 2015

Revision Date: February 13 2017

Revision Number: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier:

Product Name

Concrobium House and Deck Wash

Other Identification Means:

Synonyms

None

Use of Substance/Preparation and Restrictions:

Recommended Use:

Cleaner

Uses Advised Against:

No information available

SDS Supplier Details:

Company Name:

Siamons International Inc.

Company Identification:

48 Galaxy Blvd., Unit 413 Toronto, Ontario Canada

M9W 6C8

Company Emergency Telephone Number

Emergency Phone: 866 811 4148

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA / WHMIS 2015 Hazards

Not hazardous.

Classification of substance or mixture

GHS-US/Canadian classification:

Not hazardous

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS):

None.

Signal Word (GHS):

None

Hazard Statements (GHS):

None

Precautionary Statements (GHS):

P262: Do not get in eyes, on skin or on clothing.

P305 + P351: IF IN EYES: Rinse with water for several minutes. Repeat if needed.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

SAFETY DATA SHEET Concrobium House and Deck Wash

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3. COMPOSITION/INFORMATION	N ON INGREDIEN	ITS	
Chemical Description: Chemical			
Ingredient	CAS#	% by Wt	Classification
Sodium Bicarbonate	144-55-8	1-5	Eye Irritant Category 2B – H320
Sodium Gluconate	527-07-1	1-5	Eye Irritant Category 2B - H320
Sodium Carbonate	497-19-8	1-5	Skin Irritant Category 2 – H315 Eye Irritant Category 2A - H319
Alcohol Ethoxylate	68991-48-0	1-5	Skin Irritant Category 2 – H315 Eye Irritant Category 2A - H319
Di Sodium Metasilicate	6834-92-0	1-5	Acute Toxicity Category 4 (Oral) - H302 Skin Corrosive Category 1A - H314
Potassium Hydroxide	1310-58-3	1-5	Skin Corrosive Category 1A – H314 Eye Corrosive Category 1 - H318
Alanine, N,N- bis(carboxymethyl)- , trisodium salt	164462-16-2	1-5	Skin Irritant Category 2 – H315 Eye Irritant Category 2A - H319
4. FIRST AID MEASURES		· · · · · · · · · · · · · · · · · · ·	
Inhalation:	Remove to fresh	air. If symp	otoms persist consult physician.
Eye Contact:			h water for at least 20 minutes, occasionally lifting the peat if required. If irritation persists get medical
Skin Contact:	Thoroughly wash clothing and was		skin with soap and water. Remove any contaminated use.
Ingestion:			Drink plenty of water. Do not induce vomiting unless at. Never give anything to an unconscious person. Get
Notes to Physician:	Treatment based	d on judgme	ent of attending physician.
5. FIRE FIGHTING MEASURES			
Suitable extinguishing media:	•	for extingu	ishing agent. CO2, dry chemical, alcohol resistant
Unsuitable extinguishing media:	No information a	vailable.	
Special exposure hazards	Thermal decomp	oosition rele	eases irritating gases.
Special safety equipment:	Self-contained p	ositive pres	sure breathing apparatus and protective clothing.
Date: February 13., 2017			SDS. Concrobium House and Deck Wash

SAFETY DATA SHEET Concrobium House and Deck Wash

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe mist.

For Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up:

For Containment: Contain any spills with dikes to prevent migration and entry into sewers or streams. Methods for Cleaning Up: Clear up spills immediately with absorbent and dispose of waste safely.

Reference to Other Sections: See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:

Use local exhaust or dilution ventilation.

Hand protection:

Chemical resistant gloves.

Eye protection:

Safety goggles.

Skin protection:

Use body-covering impervious clothing.

Working hygiene:

Take usual precautions when handling. Workers should wash hands before

eating, drinking or smoking.

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Exposure Guidelines:

Source Material

Potassium Hydroxide

TWA ppm

TWA mg/m³ 2 mg/m3

STEL ppm

STEL mg/m³

2mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Liquid.

Specific gravity:

1.0-1.01g/cm3.

Colour:

Clear transparent liquid.

Solubility in water:

Soluble.

Odour:

Slight odor.

:Hq

10.1-10.5

Flash point:

None

Boiling point/boiling

Est 100 °C 212 °F

Vapor density:

Not known

range:

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Conditions to avoid

Thermal decomposition/conditions

to avoid:

Stable at normal ambient temperature and pressure.

No decomposition if stored and applied as directed.

Thermal decomposition or combustion may liberate carbon oxides and other

toxic gases or vapours.

Incompatible agents. Avoid excessive heat for prolonged periods of time. Avoid

Thermal decomposition or combustion may liberate carbon oxides and other

Hazardous decomposition products

gases or vapours.

Materials to avoid

Hazardous polymerization

Oxidizing agents, acids.

Will not occur

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification

Alcohol Ethoxylate CAS # 68991-48-0:

LD50 (Oral) Rat 2,000 mg/Kg

Sodium Bicarbonate CAS # 144-55-8:

LD 50 (Oral) Rat 4,220 mg/Kg

Sodium Carbonate CAS # 497-19-8:

LD 50 (Oral) Rat 4,090 mg/Kg

Potassium Hydroxide CAS # 13/10-58-3:

LD 50 (Oral) Rat 273 mg/Kg

Primary irritant effect: on the skin: None known.

on the eye: Slight irritation.

Sensitization: No sensitizing effects known. Additional toxicological information:

Date: February 13., 2017

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None known

12. ECOLOGICAL INFORMATION

Toxicity:

Not classified

Persistence and Degradability:

Not available

Bioaccumulative Potential:

Not available

Mobility in Soil:

Not available.

Other Adverse Effects

Not available.

Other Information:

All of the organic components of this product are readily biodegradable.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national,

and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation: Not Regulated

Canadian T.D.G.: Not Regulated Water Transportation: Not Regulated Air Transportation: Not Regulated

15. REGULATION

SARA Section Yes
SARA (313) Chemicals Yes
EPA TSCA Inventory Appears.
Canadian DSL Appears.
EINECS Appears.

WHMIS Classification: Not regulated.

HMIS III Rating

Health: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability: 0 Minimal Hazard

Date: February 13., 2017

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SAFETY DATA SHEET Concrobium House and Deck Wash

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Physical: 0 Minimal Hazard

Personal Protection: B

SDS US (GHS HazCom 2012 and WHMIS 2015)

16. OTHER INFORMATION

Prepared By:

Lizmar

32 Louisa Street

Toronto Ontario

M8V 2K6 416-436-5054

Issuing Date:

May 11, 2015

Revision Date: February 13, 2017

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet

Date: February 13., 2017

SDS: Concrobium House and Deck Wash

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1. Identification

. roduct identifier

Brakleen® Brake Parts Cleaner

Other means of identification

Product code

05151

Recommended use

Brake parts cleaner

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name

CRC Industries, Inc.

Address

885 Louis Dr. Warminster, PA 18974 US

Telephone

General Information

215-674-4300

Technical

800-521-3168

Assistance

Customer Service

800-272-4620

24-Hour Emergency

800-424-9300 (US)

(CHEMTREC)

703-527-3887 (International)

Website

www.crcindustries.com

2. Hazard(s) identification

Physical hazards

Flammable aerosols Gases under pressure Category 1

Health hazards

Serious eye damage/eye irritation

Compressed gas

Reproductive toxicity (the unborn child)

Category 2 Category 2

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 2

exposure

hazard

Environmental hazards

Hazardous to the aquatic environment, acute Category 3

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs (liver, kidneys, brain, lungs) through prolonged or repeated exposure. Harmful to aquatic life.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response If inhaled: Remove

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical attention. If exposed or concerned: Get medical attention.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

azard(s) not otherwise classified (HNOC) Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor, May cause flash fire or explosion.

Supplemental information

11.8% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

ixtures			
Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	80 - 90
Carbon dioxide		124-38-9	10 - 20
Toluene		108-88-3	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact

delayed

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important symptoms/effects, acute and

ınd

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

ndication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions General fire hazards

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

Material name: Brakleen® Brake Parts Cleaner 05151 Version #: 01 Issue date: 05-26-2015

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Prevent product from entering drains. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.

anditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Ai Components	Type	, Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
,		1000 ppm	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
•		5000 ppm	
US. OSHA Table Z-2 (29 CFR 1910	0.1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
terial name: Brakleen® Brake Parts Clea	nor		0001
tenai name. Brakteen® Brake Parts Clea 151 Version #: 01 Issue date: 05-26-2			sps u 3 / 1

US. ACGIH Threshold Lin Components	mit Values	Туре		Val	110	
<u> </u>						
Carbon dioxide (CAS 124-38-9)		STEL			000 ppm	
T-1 (010 100 00 0)		TWA			00 ppm	
Toluene (CAS 108-88-3)		TWA		20	ppm	
US. NIOSH: Pocket Guid Components	e to Chemica	al Hazards Type		Vai	ue	
<u> </u>						
Acetone (CAS 67-64-1)		TWA) mg/m3) ppm	
Carbon dioxide (CAS 124-38-9)		STEL			000 mg/m3	
		TWA		900	000 ppm 00 mg/m3	
T-1: (010 100 00 0)		075			00 ppm	
Toluene (CAS 108-88-3)		STEL) mg/m3	
		TWA) ppm 5 mg/m3	
		1 1 1 1 1 1) ppm	
Distract limit value				100	, bb	
Biological limit values ACGIH Biological Expos	uro Indiana					
Components	Value		Determinant	Specimen	Sampling Time	
	E0 mail		Acetone	Urine		i
Acetone (CAS 67-64-1) Toluene (CAS 108-88-3)	50 mg/l 0.3 mg/g		o-Cresol, with	Creatinine in	*	
Toldelle (CAS 100-00-3)	0.5 mg/g		hydrolysis	urine		
	0.03 mg/l		Toluene	Urine	*	
	0.02 mg/l		Toluene	Blood	*	
* - For sampling details, pl	lease see the	source docu	ment.			
Exposure guidelines						
US - California OELs: Sk	in designati	on				
Toluene (CAS 108-88 US - Minnesota Haz Sub	3-3)			e absorbed throu	gh the skin.	
		gnation appi		esignation applie	•	
Toluene (CAS 108-88 Appropriate engineering		operal ventile		•		ed. Ventilation rates
controls	should or othe exposu	be matched t r engineering	to conditions. If ap controls to mainta	pplicable, use prod ain airborne level:	cess enciosures, l s below recomme	ocal exhaust ventilation, nded exposure limits. If acceptable level. Provide
Individual protection measu	res, such as	personal pro	otective equipme	ent		
Eye/face protection			with side shields			
Skin protection						
Hand protection	Wear p	rotective glov	es such as: Nitrile	e. Neoprene. Poly	vinyl alcohol (PV/	4).
Other		•	ctive clothing.			
Respiratory protection	NIOŠH breathi	-approved ca	rtridge respirator	with an organic values and for emerge	xceeds the application appropriate apor cartridge. Use encies. Air monitor	
Thermal hazards	Wear a	ppropriate th	ermal protective o	lothing, when ned	cessary.	
General hygiene	When	using do not s	smoke. Always ob	serve good perso	onal hygiene meas	ures, such as washing
considerations			aterial and before ive equipment to r			Routinely wash work
9. Physical and chemic	cal proper	ties				
Appearance						
Physical state	Liquid.					
Form	Aeroso	ol.				
Color	Clear.	Colorless.			1	
Material name: Brakleen® Brake	Parts Cleaner					SDS US
05151 Version #: 01 Issue da	ate: 05-26-20 5	5				4 / 10

Odor Sweet. Odor threshold Not available. Нq Not available. Melting point/freezing point -138.8 °F (-94.9 °C) estimated Initial boiling point and boiling 132.9 °F (56.1 °C) estimated nge . .ash point < 0 °F (<-17.8 °C) Tag Closed Cup **Evaporation rate** Fast Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower 1.2 % estimated (%) Flammability limit - upper 12.8 % estimated (%) 6962 hPa estimated Vapor pressure Vapor density 2 (air = 1)Relative density 0.88 estimated Solubility (water) Slightly soluble. Partition coefficient Not available. (n-octanol/water) Auto-ignition temperature 869 °F (465 °C) estimated **Decomposition temperature** Not available. Viscosity (kinematic) Not available. Percent volatile 88.2 % estimated 10. Stability and reactivity Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions, Chemical stability ssibility of hazardous No dangerous reaction known under conditions of normal use. reactions Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials Acids, Aluminum, Carbon oxides. Hazardous decomposition products 11. Toxicological information Information on likely routes of exposure Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin contact Prolonged skin contact may cause temporary irritation. Eve contact Causes serious eye irritation. Ingestion Acetone poisoning may result in liver and kidney damage. Headache, May cause drowsiness and dizziness, Nausea, vomiting, Severe eye irritation. Symptoms related to the Symptoms may include stinging, tearing, redness, swelling, and blurred vision. physical, chemical and toxicological characteristics Information on toxicological effects Narcotic effects. Acute toxicity **Product Test Results** Species Brakleen® Brake Parts Cleaner Acute Dermai LD50 Rabbit 22231 mg/kg estimated Material name: Brakleen® Brake Parts Cleaner SDS US 5/10 05151 Version #: 01 Issue date: 05-26-2015

Product	Snoo			1
Inhalation	Spec	les -	Test Results	
LC50	Rat			
2000	rtat		33087 ppm, 4 houi	
			32 mg/l, 4 Hours e	stimated
Orai				
LD50	Rat	6	6560 mg/kg estima	ted
* Estimates for product may	be based o	on additional component data not shown.		
Skin corrosion/irritation		ed skin contact may cause temporary irritation.		
Serious eye damage/eye irritation		serious eye irritation.		
Respiratory sensitization	Not a re	spiratory sensitizer.		
Skin sensitization		duct is not expected to cause skin sensitization	_	
Germ cell mutagenicity	No data	available to indicate product or any component		er than 0.1% are
Carcinogenicity		duct is not considered to be a carcinogen by IA	RC ACGIH NTP	Dr OSHA
IARC Monographs. Overall			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Toluene (CAS 108-88-3		3 Not classifiable as to c	carcinogenicity to b	limane
Reproductive toxicity	Suspect	ted of damaging the unborn child.	our our ogomony to 1	idinario.
Specific target organ toxicity - single exposure		use drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	May cau Lungs.	use damage to organs through prolonged or rep	eated exposure: Li	ver. Kidneys. Brain.
Aspiration hazard	Based o	 on available data, the classification criteria are no	nt met	
Chronic effects		use damage to organs through prolonged or rep		Folonged inhelation may
	be harm	ful.	calcu exposule, r	lolonged innalation may
12. Ecological information	on			
Footoxicity	Harmful	to aquatic life.		
Product		Species	Test Results	
Brakleen® Brake Parts Clea	ner		 -	
Aquatic				
Acute			1	
Fish	LC50	Fish	7948.4028 mg/l,	96 hours estimated
Components		Species	Test Results	
Acetone (CAS 67-64-1)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 ո	ng/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/	l, 96 hours
Toluene (CAS 108-88-3)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l,	48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 ho	urs
* Cotimates for decet	L			
Persistence and degradability		n additional component data not shown.		
Bioaccumulative potential	พบ นลเล	is available on the degradability of this product.		
•	nol /t-	llas Koud		
Partition coefficient n-octa Acetone Toluene	noi / water	-0.24 2.73		
bility in soil	No data	available.		
•		·		
Material name: Brakleen® Brake Par 05151 Version #: 01 Issue date:				sps us 6 / 10

Other	adverse	effects
-------	---------	---------

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 F

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es)

> 2.1 Subsidiary risk

Label(s)

Packing group Not applicable.

2.1

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Special provisions Packaging exceptions 306

Packaging non bulk None Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Transport hazard class(es)

Aerosols, flammable, Limited Quantity

Aerosols, flammable, Limited Quantity

Class

Subsidiary risk

Packing group Not applicable.

Environmental hazards ERG Code

No. 10L

2.1

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information

Passenger and cargo

Allowed.

aircraft Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2

Subsidiary risk

Not applicable.

Packing group Environmental hazards

No.

Marine pollutant

Em\$ F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: Brakleen® Brake Parts Cleaner 05151 Version #: 01 Issue date: 05-26-2015

SDS US

SARA 304 Emergency release notification Not regulated. US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance Toluene (CAS 108-88-3) CERCLA Hazardous Substance List (40 CFR 302.4) Acetone (CAS 67-64-1) Listed. Toluene (CAS 108-88-3) Listed. CERCLA Hazardous Substances: Reportable quantity Acetone (CAS 67-64-1) 5000 LBS Toluene (CAS 108-88-3) 1000 LBS Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Toluene (CAS 108-88-3) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical **Code Number** Acetone (CAS 67-64-1) 6532 Toluene (CAS 108-88-3) 6594 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Acetone (CAS 67-64-1) 35 %WV Toluene (CAS 108-88-3) 35 %WV **DEA Exempt Chemical Mixtures Code Number** Acetone (CAS 67-64-1) 6532 Toluene (CAS 108-88-3) 594 Food and Drug Not regulated. Administration (FDA) Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Section 311/312 Delayed Hazard - Yes Hazard categories Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No SARA 302 Extremely No hazardous substance US state regulations US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs. tit. 22, 69502.3, subd. (a)) Acetone (CAS 67-64-1) Toluene (CAS 108-88-3) US. California Controlled Substance's. CA Department of Justice (California Health and Safety Code Section 11100) US. New Jersey Worker and Community Right-to-Know Act Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Toluene (CAS 108-88-3) US. Massachusetts RTK - Substance List Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Toluene (CAS 108-88-3) US. Pennsylvania Worker and Community Right-to-Know Law Acetone (CAS 67-64-1) Toluene (CAS 108-88-3) Carbon dioxide (CAS 124-38-9) US, Rhode Island RTK Acetone (CAS 67-64-1)

Material name: Brakleen® Brake Parts Cleaner 05151 Version #: 01 Issue date: 05-26-2015

Toluene (CAS 108-88-3) US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Benzene (CAS 71-43-2) Listed: February 27, 1987 Cumene (CAS 98-82-8) Listed: April 6, 2010 Ethanal (CAS 75-07-0) Listed: April 1, 1988 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004 US - California Proposition 65 - CRT: Listed date/Developmental toxin Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991 US - California Proposition 65 - CRT: Listed date/Female reproductive toxin Toluene (CAS 108-88-3) Listed: August 7, 2009 US - California Proposition 65 - CRT: Listed date/Male reproductive toxin Benzene (CAS 71-43-2) Listed: December 26, 1997 Volatile organic compounds (VOC) regulations **EPA** VOC content (40 CFR 2.7 % 51.100(s)) Consumer products Not regulated (40 CFR 59, Subpt. C) State This product is regulated as a Brake Cleaner. This product is compliant for use in all 50 states, Consumer products This product also complies with South Coast Air Quality Management District Rule 1171. VOC content (CA) 2.7 % **VOC content (OTC)** 2.7 % International Inventories Country(s) or region On inventory (yes/no)* Inventory name Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) Nο China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical Yes Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s). 16. Other information, including date of preparation or last revision Issue date 05-26-2015 Allison Cho Prepared by Version # Further information CRC # 668A **HMIS®** ratings Health: 1* Flammability: 4 Physidal hazard: 0 Personal protection: B

Material name: Brakleen® Brake Parts Cleaner 05151 Version #: 01 Issue date: 05-26-2015

NFPA ratings

Health: 1
Flammability: 4
Instability: 0

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

CT

Chemical Technology Inc.



Adhesives/Coatings 13271 Mt. Elliott • Detroit, MI 48212 • (313) 893-4930 Fax (313) 891-0014

DICOR PART NUMBER 901BA

CTI-1636

DESCRIPTION:

CTI-1636 is a water based pressure sensitive adhesive with high tack and peel values.

SPECIFICATION DATA:

Base:

Color:

Solids:

Viscosity:

Acrylic

White

51-55%

8,000 - 12,000 cps, Brookfield RVF

Spindle #4, speed 10 RPM @ 77°F

Wt/gal:

: Ha

Freezing Sensitivity:

8.2 - 8.6 6.5 - 8.5

Do not freeze

APPLICATION:

CTI-1636 can be applied by roll, brush, or spray methods.

SURFACE PREPARATION:

we certain that surfaces are clean, dry and free from dirt, oil, dust, etc.

CLEAN UP:

Water, if wet. If dry, mineral spirits can be used.

STORAGE CONDITIONS:

Product should be used within 90 days from date of manufacture. This material should be stored between 60°F and 90°F.

	Material Safety Data Sheet	
This material safety duta sheet (1910.1200. If any items not indicate that.	complies with OSHA's Hazard Communication Standard applicable, or no information is available, the space is n	d, 29CFR narked to
IDENTITY I (As Used On I	abel And List) CTI-1636	
Manufacturer's Name: Ch	emical Technology Inc.	
Address: 13271 Mt. Elliott D	etroit, MI 48212	
Emergency Telephone Number:		
Telephone Number for Informa		•
Date Prepared: 10/4/95	Product Class: Acrylic	•
Signature of Preparer (optional	•	· · :
SECTION II - HAZARI	DOUS INGREDIENTS	<u></u>
Hazardous components (Specific Chemical Identity/	OCCUPATIONAL VAPOR TOXICIT	ſΥ
INGREDIENT PERCE	OCCUPATIONAL PRESIDE INFORM	MATION ,
This product contains no haza	rdous ingredients.	•
SECTION III - PHYSICAL/C	HEMICAL CHARACTERISTICS	
Boiling Range: 212°F	Percent Volatile: 44%	•
Weight per gal: 8.2#	Vapor Density: Heavier	
Evaporation Rate: Slower, than ether Faster	· Appearance and Odor: N/A	
NI = No Information		÷
NA ≈ Not Applicable		•
NA ≥ Not Applicable		•

ne two CTI-1636 Material Safety Data Success	i 1
ECTION VI - FIRE AND EXPLOSION HAZARD DATA	-
	:
lammability Classification: None Flammable	
torage Category: N/A	
C Flash Point (Method Used): None to 212°F Pensky Martens	
Explosive Limits: N/A	
Extinguishing Media: Use media suited	
Special Fire Fighting Procedures: None Closed container may explode when exposed to contain the container may explode when exposed to contain the container may explore the c	xtreme heat.
Unusual Fire and Explosion Hazards: Closed container may explose when	
DATA CTIVITY DATA	
SECTION V - REACTIVITY Distance Conditions to Avoid: Protect from free Stability - Unstable:	ezing.
rest	
- All Lord gants	
Incompatibility (Materials to 1)	
gradous Decomposition or By products: CO2 Conditions to Avoid: Excessive	e heat.
Hazardous Polymerization - May Occur: Conditions to Avdid: 2000	
SECTION VI - HEALTH HAZARD DATA	
SECTION VI - HEADIN	
Health Hazards (acute): Inhalation, Skin contact, Eye contact TLV 25 ppm	I ventilated
Health Hazards (acute): Inhalation, Skin contact, Health Hazards (chronic): None recognized. Under normal conditions of use in we areas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the Work place arising from the residual mareas, the concentration of vinyl acetate in the Work place arising from the residual mareas, the concentration of vinyl acetate in the Work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas, the concentration of vinyl acetate in the work place arising from the residual mareas.	onomer in
TALLAND —	
these polymer emulsions will not exceed the TLV.	
Signs and Symptoms of Overexposure:	}
Eyes - Primary Irritation.	. }
	İ
Skin - Possible primary irritation.	ı.
Inhalation - May cause headache and nausea.	
	,

Material Safety Data Sheet page three CTI-1636 (Emergency and First Aid Procedures: Consult a Physician for Medical Treatment. Skin - Wash with mild soap and water. Eyes - Flush with water, to dilute. Ingested - Drink one to two glasses of water to dilute. Inhaled - Remove to fresh air. Treat symptomatically. SECTION VII - SPILL OR LEAK PROCEDURES Steps to be tuken in Case Material is Released or Spilled: Shovel excess waste container. Residue may be removed while fresh with water. After drying, the residue may be cleaned with Xylene or Triethane. Fresh material is very stippery. According to Federal, State and Local codes. Waste Disposal Method: SECTION VIII - SPECIAL PRECAUTIONS Precautions to be taken in transportation, handling, storing: Protect from freezing. Do not store above 120°F. Do not take internally. Avoid prolonged contact with skin. Other Precautions: SECTION VIII - SPECIAL PROTECTION INFORMATION Respiratory protection (Specify Type): N/A Sufficient ventilation in volume and pattern should be provided to keep air contaminant concentration below current applicable OSHA safety and health requirements. Protective Gloves: Yes-- Should be worn to prevent skin contact. Eye Protection: Yes--Safety glasses, goggles or shield should be word.

ection 1: Product & Company Identification

Product Name:

Jump Start® Starting Fluid with Lubricity

Product Number (s):

05671, 75671

Product Use:

Starting Fluid

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc. 885 Louis Drive

Warminster, PA 18974 www.crcindustries.com

1-215-674-4300(General) (800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co. 2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca 1-905-670-2291

In Mexico:

CRC Industries Mexico Av. Benito Juárez 4055 G

Colonia Orquidea

San Luís Potosi, SLP CP 78394

www.crc-mexico.com 52-444-824-1666

24-Hr Emergency - CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

ANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Vapor Harmful. Contents Under Pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Appearance & Odor: Clear liquid, ether odor

Potential Health Effects:

ACUTE EFFECTS:

May cause moderate eye irritation and moderate corneal injury. EYE:

SKIN: Prolonged contact may cause irritation, defatting of the skin.

May cause nose and throat irritation. May cause nervous system depression characterized by the INHALATION:

following progressive steps: headache, dizziness, nausea, staggering gait, confusion,

unconsciousness. Intentional misuse by deliberately concentrating and inhaling the contents may

be harmful or fatal.

INGESTION: If aspirated into lungs, it may be rapidly absorbed through the lungs and result in injury to other

body systems; gastro-intestinal distress.

CHRONIC EFFECTS: Reports have associated repeated and prolonged overexposure to solvents with permanent

brain and nervous system damage.

TARGET ORGANS: Nervous system

Medical Conditions Aggravated by Exposure: Unknown

e Section 11 for toxicology and carcinogenicity information on product ingredients.

Product Name: Jump Start® Starting Fluid with Lubricity

Product Number (s): 05671, 75671

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by	Wt.
Diethyl ether	60-29-7	20 -	- 25
Heptane	142-82-5	75 -	- 80
Carbon dioxide	124-38-9	<	10
Upper cylinder lubricant	64741-89-5	<	1

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contamihated clothing and wash affected area with soap and water. Call a physician if

irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If

breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Call a physician immediately.

Note to Physicians: Aspiration hazard. Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions.

(See 16 CFR 1500.3(c)(6)).

Flash Point: < 20°F (TCC)

Upper Explosive Limit: 48.0 Autoignition Temperature: ND Lower Explosive Limit: 1.2

Fire and Explosion Data:

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical, Class B extinguishers

Products of Combustion: Oxides of carbon

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors

may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for

protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool

and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into

sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space

or limited air circulation area, clean-up workers should wear appropriate

Page 2 of 7

Product Name: Jump Start® Starting Fluid with Lubricity

Product Number (s): 05671, 75671

respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Jection 7: Handling and Storage

Handling Procedures:

Do not use near open flames, heat or any sources of ignition. Vapors are heavier than air and will collect in low areas. Use proper ventilation that will remove vapors from low areas. Avoid prolonged or repeated contact with skin. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product

Storage Procedures:

Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Do not store near sources of ignition.

Aerosol Storage Level:

111

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	0	SHA	AC	GIH		THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Diethyl ether	400	NE	400	500	NE	-	ppm
Heptane	500	NE	400	500	NE		ppm
Carbon dioxide	5000	NE	5000	30000	NE	† † * * *	ppm
Upper cylinder lubricant	NE	NE	NE	NE	NE		
N.E. – Not Est	ablished	(c) – ceili	ng (s) -	– skin	(v) – vac	ated	

Controls and Protection:

Engineering Controls:

Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection:

None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection:

For normal conditions, wear safety glasses. Where there is reasonable probability of liquid

contact, wear splash-proof goggles.

Skin Protection:

Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

ection 9: Physical and Chemical Properties

Physical State: li

liquid

Product Name: Jump Start® Starting Fluid with Lubricity Product Number (s): 05671, 75671 Color: clear, coloriess Odor: ether Odor Threshold: ND °necific Gravity: 0.7 tial Boiling Point: 95°F reezing Point: ND Vapor Pressure: ND Vapor Density: (air \(1) > 1 **Evaporation Rate:** fast Solubility: slight in water Coefficient of water/oil distribution: pH: Volatile Organic Compounds: 97.0 wt %: g/L: 679 lbs./gal: 5.66 **Section 10: Stability and Reactivity** Stability: Stable Sources of ignition; excessive heat Conditions to Avoid: Incompatible Materials: Strong oxidizers; amines; nitric plus acetic acids; nitric plus sulfuric acid Hazardous Decomposition Products: Oxides of carbon Possibility of Hazardous Reactions: No **Section 11: Toxicological Information** ng-term toxicological studies have not been conducted for this product. The following information is available for components of this product. **Acute Toxicity:** Component Oral LD50 (rat) Dermal LD50 (rabbit) Inhalation LC50 (rat) Diethyl ether 1215 mg/kg > 20 mL/kg No data Heptane No data 103 g/m³/4H No data Carbon dioxide No data No data 470,000 ppm/30M Upper cylinder lubricant > 15 mg/kg > 5 mg/kg No dáta **Chronic Toxicity: OSHA IARC** NTP Component Carcinogen Carcinogen Carcinogen Irritant Sensitizer Diethyl ether No No No Unknown Unknown Heptane No No E (mild) / S (moderate) No No /R (mild) Carbon dioxide No No No No Unknown Upper cylinder lubricant No No No Unknown Unknown E – Eye S - Skin R - Respiratory Reproductive Toxicity: No information available

Reproductive Toxicity:
Teratogenicity:
Mutagenicity:
Synergistic Effects:
No information available
No information available
No information available

Product Name: Jump Start® Starting Fluid with Lubricity

Product Number (s): 05671, 75671

Section 12: Ecological Information

cological studies have not been conducted for this product. The following information is available for components of this

oduct.

Ecotoxicity: Heptane – 24 Hr EC50 Daphnia magna: > 10 mg/L

Persistence / Degradability: Bioaccumulation / Accumulation: No information available No information available

Mobility in Environment:

No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability

with a waste code of D001. Pressurized containers are a D003 reactive waste. (See 40 CFR

Part 261.20 – 261.33)

Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D

AC/IATA (air): Aerosols, flammable (engine starting fluid), UN 1950, 2.1

IMO/IMDG (water): Aerosols, UN 1950, 2, Limited Quantity

Special Provisions: !ATA: Forbidden on passenger aircraft

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: diethyl ether (100 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard Yes
Reactive Hazard No
Release of Pressure
Acute Health Hazard Yes

Chronic Health Hazard No

Section 313 Toxic Chemicals:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of

Page 5 of 7

Product Name: Jump Start® Starting Fluid with Lubricity

Product Number (s): 05671, 75671

1986 and 40 CFR Part 372:

None

<u> C'ean Air Act:</u>

Section 112 Hazardous Air Pollutants (HAPs): None

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm:

None

Consumer Products VOC Regulations:

This product is not regulated.

State Right to Know:

New Jersey: 60-29-7, 142-82-5 Pennsylvania: 60-29-7, 142-82-5 Massachusetts: 60-29-7, 142-82-5 Rhode Island: 60-29-7, 142-82-5

Canadian Regulations:

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

WHMIS Hazard Class:

A, B5, D2B

European Union Regulations:

RoHS Compliance:

This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as

listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information:

None

Section 16: Other Information

HMIS® (II)			
Health:	2		
Flammabilitys	4		
Reactivity:	0		
PPE:	В		

Ratings range from 0 (no hazard) to 4 (severe hazard)

NFPA 2 0

Prepared By:

Michelle Rudnick

CRC #:

05671

Revision Date:

02/01/2010

Changes since last revision:

Section 14: IATA Shipping Information revised

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC industries'

Product Name: Jump Start® Starting Fluid with Lubricity Product Number (s): 05671, 75671

knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization

lbs./gal: pounds per gallon LC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup
PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit TCC: Tag Closed Cup TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System

Section 1: Product & Company Identification

roduct Name:

Marine Fuel Stabilizer (Gasoline Formula)

roduct Number (s): 06161, 06162, 06163, 06164

Manufactured By:

CRC Industries, Inc.

(215) 674-4300

885 Louis Drive, Warminster, PA 18974

24-Hour Emergency Information: CHEMTREC

(800) 424-9300

Section 2: Composition/Information on Ingredients

Component

CAS

ACGIH

OSHA

OTHER

NUMBER

TLV

PEL

LIMITS

100 ppm

Petroleum Distillate Chemical Additives

64742-53-6 Mixture

NE NE

400 ppm NE

NE

> 90 < 10

%

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Amber liquid, faint petroleum odor.

Avoid continuous breathing of vapor & spray mists. Avoid contact with skin & eyes.

Potential Health Effects:

Inhalation:

NA

Eves:

Irritation

Skin:

Irritation

Ingestion:

Exposure to oil mists or to fumes, which may be generated at high temperatures, may

irritate the nose, throat and upper respiratory tract.

Carcinogenicity:

OSHA:

No

IARC:

NA

No

NTP:

No

Chronic Overexposure:

Medical Conditions Aggravated by Exposure:

Pre-existing skin and pre-respiratory conditions.

Section 4: First Aid Measures

Inhalation:

Remove to fresh air. Give artificial respiration if necessary.

Eyes:

Flush with large amounts of water for 15 minutes.

Skin:

Remove contaminated clothing and wash area with soap and water.

Ingestion:

Call a physician. Do not induce vomiting.

Product Name: Marine Fu Product Number (s): 06161, 061	el Stabilizer (Gasoline Formula) 52, 06163, 06164	
Section 5: Fire-Fighting Measures		
ashpoint: >315°F Litinguishing Media: Hazardous Combustion Products: Fire-fighting Instructions:	Method: TCC LEL: ND CO ₂ , dry chemical and foam CO ₂ and carbon monoxide Remove containers from fire area if possible. Us breathing apparatus for fire fighting.	
NFPA: Health: 1 HMIS: Health: 1	Flammability: 1 Reactivity: Flammability: 1 Reactivity:	0 0 PPE: B
Section 6: Accidental Release Me	sures	
Spill/Leak Procedures: Area shou used and unused product should b	d be ventilated. Absorbent should be used to pick used to	p excess material. All cal regulations.
Section 7: Handling and Storage		
Handling Procedures: Store in a co	ol, dry area.	
Section 8: Exposure Controls/Pers	onal Protection	
Engineering Controls: Adequate to maintain levels below the exposur	prevent accumulation of vapors. Use mechanical national in a confined space, follow apple	neans if necessary to icable OSHA regulations.
limits. Follow OSHA regulations	compliant respirators or self-contained breathing ap CFR 1910.134.	paratus above exposure
Protective Clothing/Equipment: V boots if splashing occurs.	ear chemically protective gloves and safety glasses.	
Section 9: Physical & Chemical P		
Physical State: Liqu	- T	ber liquid, faint petroleum
Specific Gravity: 0.90 Freezing Point: ND Evaporation Rate: Neg pH: NA	Vapor Pressure: Neg Vapor Density (air = 1) > air	5°F
Volatile Organic Compounds %:	1.625 g/L: 14.6 lbs./	gal: 0.12
Section 10: Stability and Reactivity	7	A
Stability: Chemical Incompatibilities: Taterials to Avoid: azardous Decomposition Produc	Stable Hazardous Polyme Strong oxidizers. Strong oxidizing agents. S: None	rization: No

Page 2 of 3

Product Name: Marine Product Number (s): 06161, 0	Fuel Stabilizer (G: 06162, 06163, 0616			
Section 11: Toxicological Infor	rmation			
ong-term toxicological studies			luct. See Section 3	of this MSDS for
Section 12: Ecological Informa	tion	**************************************		
-	No data available. No data available for	r biodegradation.		
Section 13: Disposal Considera	itions			
Disposal: This material if discar activities must comply with fed agency for specific rules. Do n	leral, state and local	regulations. Conta	act your local or stat	te environmental
Section 14: Transportation Info	ormation			
Hazard Class: N Label: N	Not Regulated NA NA NA	UN Number: NA Placard: NA		g Group: NA
Section 15: Regulatory Informa	ation		**************************************	***************************************
	ection 311/312:	NA NA No This product cont	SCA or are exempt Section tains chemicals know se cancer, birth defe n.	n 313*: None win to the State of
Section 16: Additional Informa	tion			<u>. </u>
CAS: Chemical Abstract of ppm: Parts per Million TCC: Tag Closed Cup LEL: Lower Explosive Li UEL: Upper Explosive Li Personal Protection Cleveland Closed C	imit imit Equipment	NA: ND: NE: g/L: lbs./gal: RQ:	Not Applicable Not Determined Not Established grams per Liter pounds per gallor Reportable Quant	

MATERIAL SAFETY TST Grey Water Odor Control	DATA SHEET Page: 1
PRODUCT NAME: TST Grey Water O HMIS CODES: H F R P 1 1 0 A	dor Control PRODUCT CODE: 40250, 40252
========== SECTION I - MANUFA	CTURER IDENTIFICATION =========
MANUFACTURER'S NAME: Camco ADDRESS: 121 La Gree	Manufacturing, Inc. Indmark Drive Insboro, NC 27409
EMERGENCY PHONE : 336-668-76 INFORMATION PHONE : 336-668-76 NAME OF PREPARER : CAMCO MA	661 DATE REVISED: 02/17/01 661 ANUFACTURING, INC. 1-800-334-2004
==== SECTION II - HAZARDOUS IN	GREDIENTS/SARA III INFORMATION ==== WEIGHT
REPORTABLE COMPONENTS	CAS NUMB ER PERCENT
LINEAR PRIMARY ALCOHOL ETHOX TETRA SODIUM SALT OF ETHYLENEDIAMINETETRAACETIC	064-02-8 1-5
ALKYL DIMETHYL BENZYL AMMONI CHLORIDE	ÚM 68424-85-1 1-5
===== SECTION III - PHYSICAL	CHEMICAL CHARACTERISTICS ======
VAPOR DENSITY: NOT DETERMINED	O SPECIFIC GRAVITY (H2O=1): 1.023 @70°F O EVAPORATION RATE: N/A LY YELLOW COLORED LIQUID, LEMON
====== SECTION IV - FIRE AN	D EXPLOSION HAZARD DATA =======
FLAMMABLE LIMITS IN AIR BY VOL EXTINGUISHING MEDIA: NON-FLAM APPROPRIATE FOR SURR OR DRY CHEMICAL.	MABLE, USE EXTINGUISHER COUNDING FIRE. WATER, FOG RES: Use self-contained breathing clothing.
======================================	EACTIVITY DATA ==========
INCOMPATIBILITY (MATERIALS TO	₹ BYPRODUCTS: May form Carbon Dioxide, des of Nitrogen.

MATERIAL SAFETY DATA SHEET Page: 2 TST Grey Water Odor Control -------- SECTION VI - HEALTH HAZARD DATA ========== INHALATION: May irritate the nose. EYE CONTACT: May irritate the eyes if contact with material occurs. SKIN CONTACT: Frequent or prolonged contact may cause skin irritation. INGESTION Swallowing large amounts may cause nausea and vomiting and may be harmful. HEALTH HAZARDS (ACUTE AND CHRONIC): None known. CARCINOGENICITY: No. IARC MONOGRAPHS: No OSHA REGULATED: No **EMERGENCY AND FIRST AID PROCEDURES** INHALATION: Remove to fresh air! If breathing is difficult, get medical attention. EYE CONTACT: Flush with large quantities of water for 15 minutes and seek medical attention. SKIN CONTACT: Immediately flush with large quantities of water. Remove contaminated clothing and launder before reuse. Get medical attention for irritation or any other symptom. INGESTION: Do not induce vomiting. Dilute by giving water. Keep warm and quiet, Call physician. ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ====== STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb liquid with inert solids and shovel into containers suitable for transport and disposal. If necessary, dike spill and prevent material from entering sanitary sewers or natural water reservoirs. WASTE DISPOSAL METHOD: Dispose in accordance with federal, state and local regulations. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry, well ventilated area. OTHER PRECAUTIONS: Store in closed containers in a cool, dry, well ventilated area away from heat and strong oxidizers. ==== SECTION VIII - CONTROL MEASURES ======== RESPIRATORY PROTECTION: Use approved NIOSH respirator when TLV is exceeded. VENTILATION: General ventilation is sufficient.

PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection. EYE PROTECTION: Use chemical safety glasses, or goggles for eye protection. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeves and apron is recommended. WORK/HYGIENIC PRACTICES: Use general safety precautions when handling this material.

====== Section IX - Disclaimer =

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

TST Tabs Page 1 of 4

PRODUCT NAME: TST Tabs

NFPA CODES: HFR

210

PRODUCT CODE: 41152

======= SECTION I - MANUFACTURER IDENTIFICATION ==========

MANUFACTURER'S NAME: Camco Manufacturing, Inc.

ADDRESS:

121 Landmark Drive

Greensboro, NC 27409

EMERGENCY PHONE: 336

336-668-7661

DATE REVISED:

10/29/2002

INFORMATION PHONE:

336-668-7661

NAME OF PREPARER: CAMCO MANUFACTURING INC.

121 LANDMARK DR.

GREENSBORO, NC 27409

1-800-334-2004

===== SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION ======

REPORTABLE COMPONENTS CAS NUMBER PERCENT

Tetradecyl Dimethyl Benzyl Ammonium Chloride

139-08-2

99%

======= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =======

BOILING RANGE:

Not Determined

VAPOR DENSITY:

N/A

SOLUBILITY IN WATER:

20%

APPEARANCE AND ODOR:

White crystalline tablet without odor

SPECIFIC GRAVITY (H2O=1):

Not Determined

EVAPORATION RATE:

N/A

TST Tabs	. 1	Page 2 of 4
======= SECTIO	N IV - FIRE AND EXPLOSION HAZARD DATA	=======================================
FLASH POINT: Not Determ	nined METHOD USED:	
FLAMMABLE LIMITS IN A Determined	IR BY VOLUME: LOWER: Not Determined	UPPER: Not
EXTINGUISHING MEDIA:	Water Spray, Dry Chemical, Carbon Dioxide or F	 oam
SPECIAL FIREFIGHTING full protective clothing.	PROCEDURES: Wear positive pressure breathing	ng apparatus and
	EXPLOSION HAZARDS: As with other organical explosion hazard.	anic materials,
=======================================	SECTION V - REACTIVITY DATA =======	=======================================
STABILITY: Stable at am	pient temperatures	
INCOMPATIBILITY (MATE	ERIALS TO AVOID): Strong Oxidizers	
·	SITION OR BYPRODUCTS: Thermal decomposition	
HAZARDOUS POLYMERI	ZATION: Will not occur.	
======= SE	CTION VI - HEALTH HAZARD DATA ======	
INHALATION HEALTH RI	SKS AND SYMPTOMS OF EXPOSURE	•
INHALATION: Dust may c	ause irritation of the respiratory tract.	
SKIN AND EYE CONTAC	T HEALTH RISKS AND SYMPTOMS OF EXPO	SURE
EYE CONTACT: Overexp	osure may cause eye irritation.	
SKIN CONTACT: Overex	posure may cause skin irritation.	
INGESTION HEALTH RIS	KS AND SYMPTOMS OF EXPOSURE: Can be	fatal if swallowed.
HEALTH HAZARDS (ACL Effects of Overexposure	ŕ	

TST Tabs

Page 3 of 4

Accute: May cause severe skin and eye irritation. Will irritate respiratory tract if inhaled.

Chronic: No applicable information found.

CARCINOGENICITY: NTP

CARCINOGEN: No

IARC MONOGRAPHS: No.

OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No applicable

information found.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen provided a qualified

operator is available. Get medical attention.

EYE CONTACT: Flush with large quantities of water for 15 minutes and seek medical attention.

SKIN: Remove contaminated clothing and wash contaminated skin with large amounts of soap

and water. Launder clothing before reuse.

INGESTION: If person is conscious, give large quantity of milk, egg whites or gelatin, or if these are not available, give water. Never administer liquids by mouth to an unconscious person. Call a

physician immediately.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or shovel spill into a container for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its use. Wash contaminated clothing before reuse.

OTHER PRECAUTIONS: Product is toxic to fish. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

TST Tabs

Page 4 of 4

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved dust respirator or dust mask.

VENTILATION: Use local ventilation to control dust.

PROTECTIVE GLOVES: Wear impermeable gloves.

EYE PROTECTION: Use safety glasses, goggles or face shields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeves shirt is recommended to

prevent skin contact.

WORK/HYGIENIC PRACTICES: Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use only with adequate ventilation. Wash thoroughly after handling product.

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The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

Section 1- Chemical Product and Company Identification

Product Name:

Pro-Strength Trailer Glitter RV Wash

Supplier:

Camco Manufacturing, Inc. 121 Landmark Drive Greensboro, NC 27409 1-800-334-2004

Product Use:

Clean Agent

Product Code:

40603 (32 oz) and 40608 (Gallon)

Date of Preparation/Revision:

In case of Emergency:

December 12, 2014 1-800-535-5053

Section 2- Hazards identification

Physical State: Liquid. [CLEAR, PALE YELLOW, LIQUID WITH CHARACTERISTIC SWEET ODOR]



WARNING

GHS Classifications

Eye Damage / Irritation (Category 2B)
Acute Toxicity - Inhalation (Category 4)
Skin Damage / Irritation (Category 3)
Acute Oral Toxicity (Category 4)

Hazard Statements

H302 Harmful if swallowed

H316 Causes mild skin irritation

H320 Causes eye irritation

H332 Harmful if inhaled

Precautionary statements

P102 Keep out of reach of children

P233 Keep container tightly closed

P260 Do not breathe dust/fumes/gas/mist/vapors/spray

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

Response statements

P330 Rinse mouth

P331 Do Not induce vomiting

P301 + P312 IF SWALLOWED: Call a Poison Center or Doctor/Physician if you feel unwell P304 + P340 + P313 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention

P305 + P351 + P338 | IF IN E

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

Pro-Strength Trailer Glitter

P337 + P313 If eye irritation persist get medical attention

P332 + P313 If skin irritation persist get medical attention

P321 Specific treatment (see First Aid Measures on Safety Data Sheet)

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

WARNING! This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. This product is an aqueous solution which will not burn. Irritating and toxic fumes and gases may be released upon thermal processing or during combustion.

Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

Potential Health Effects: Skin

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing.

Medical Conditions Aggravated by Exposure

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

See toxicological information (section 11)

Section 3 - Composition, Information on Ingredients

<u>Name</u>	CAS Number	% Volume
Sodium Dodecylbenzene Sulfona	ate 25155-30-0	8 -10%
Sodium Xylenesulphonate	1300-72-2	4 - 5%
Sodium Carbonate	497-19-8	1 - 3%
Sodium Laureth Sulfate	68585-34-2	1 - 3%

Component Information/Information on Non-Hazardous Components

This product is considered to be non-hazardous under 29 CFR 1910.1200

Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.

Seek medical attention at once.

Skin contact For skin contact, wash immediately with soap and water. If irritation persists get medical

attention.

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not

induce vomiting. Dilute by giving water. Keep warm and quiet. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim

who is unconscious or is having convulsions.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

Notes to Physician Provide general supportive measures and treat symptomatically.

Section 5 - Fire-Fighting Measures

FLASH POINT: >210° F (100° ¢) METHO

METHOD USED: PMCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

General Fire Hazards

This product is an aqueous solution which will not burn. Non-Flammable

Hazardous Combustion Products

Decomposition may yield carbon dioxide compounds and oxides of nitrogen.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental release measures

Containment Procedures

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

Section 7- Handling and Storage

Handling Procedures

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Store in a cool, dry area, Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

Section 9 - Physical and Chemical Properties

Appearance:

Light Straw Translucent Liquid

Odor:

Fresh Fragrance

Physical State: pH: (@59° F / 15° C)

8.0 to 9.5 32° F (0° C) Not Applicable

Liquid

Freeze Point: Vapor pressure: Vapor density: **Boiling Point:**

Melting Point:

Not Applicable >212°F (>100° C) Not Determined Completely

Solubility: Specific Gravity: (@70° F / 21 ° C)

1.018

Flash Point (PMCC):

>210° F (100° C)

Auto-ignition Temperature:

Not Determine

Flammable Limits in Air by Volume: **Evaporation Rate:**

Not Applicable Similar to Water Not Available

Decomposition Temperature

< 200 cps < 2% by weight

Viscosity (cps):

VOC (%):

Physical Properties: Additional Information

No additional information available

Section 10 - Stability and Reactivity

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and incompatible materials.

Incompatibility

This product is incompatible with strong oxidizing agents.

Hazardous Decomposition

Decomposition may yield carbon dioxide, carbon monoxide and oxides of nitrogen,

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No information available for the product.

This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

No information available for the product.

Epidemiology

No epidemiological data is available for this product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Other Toxicological Information

No additional information available.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport information

US DOT Information

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

IMDG

Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

General Product Information

Product is biodegradable. No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 1 12 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.

Louisiana Spill: This material is not listed.

Massachusetts Spill: This material is not listed.

SAFETY DATA SHEET

Pro-Strength Trailer Glitter

Massachusetts Substances: This material is listed. Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed. New York Acutely Hazardous Substances: This material is not listed. New York Toxic Chemical Release Reporting: This material is not listed. Pennsylvania RTK Hazardous Substances: This material is listed.

Rhode Island Hazardous Substances: This material is not listed

California Prop 65 Warning: This material is not listed

Additional Regulatory Information

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

Section 16 - Other information

NFPA CODES: Health	1
Flammability	1
Reactivity	0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: December 12, 2014 (Supersedes all previous SDS)

DISCLAIMER

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AWNING CLEANER

Page: 1

PRODUCT NAME: AWNING CLEANER

HMIS CODES: HFRP 101B PRODUCT CODE: 41020, 41022, 41027

== SECTION I - MANUFACTURER IDENTIFICATION =========

MANUFACTURER'S NAME: Camco Manufacturing, Inc. ADDRESS: 121 Landmark Drive Greensboro, NC 27409

EMERGENCY PHONE : 336-668-7661

DATE REVISED: 02/23/01

INFORMATION PHONE: 336-668-7661

NAME OF PREPARER : CAMCO MANUFACTURING, INC.

1-800-334-2004

==== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ====

Í		VAPOR PRESSURE	WEIGHT	
REPORTABLE COMPONENTS	CAS NUMB ER	mm Hg @ TEMP	PERCENT	
LINEAR PRIMARY ALCOHOL ETH	XYLATE 68439-46-3	<0.1@100°F	1-10	
SODIUM METASILICATE	6834-92-0	N/A	1-5	
COCO AMINE OXIDE	68155-09-9	N/A	1-5	
TETRA SODIUM SALT OF	064 -0 2-8	N/A	1-5	
ETHYLENEDIAMINETETRAACETI(CACID			

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =======

BOILING RANGE: NOT DETERMINED SPECIFIC GRAVITY (H2O=1): 1.022 @70°F **EVAPORATION RATE: N/A**

VAPOR DENSITY: NOT DETERMINED

SOLUBILITY IN WATER: Soluble

APPEARANCE AND ODOR: CLEAR LIGHT STRAW COLORED LIQUID, FRESH ODOR

= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ========

FLASH POINT: n/a METHOD USED: n/a

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a EXTINGUISHING MEDIA: NON-FLAMMABLE. USE EXTINGUISHER

APPROPRIATE FOR SURROUNDING FIRE. WATER, FOG OR DRY CHEMICAL.

SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

====== SECTION V - REACTIVITY DATA ===========

STABILITY: Stable

CONDITIONS TO AVOID: Excessive temperatures and strong oxidizers. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents. HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May form Carbon Dioxide,

Carbon Monoxide and oxides of Nitrogen. HAZARDOUS POLYMERIZATION: Will not occur.

INHALATION: May irritate the nose.

EYE CONTACT: May irritate the eyes if contact with material occurs.

SKIN CONTACT: Frequent or prolonged contact may cause skin irritation.

INGESTION Swallowing large amounts may cause nausea and vomiting and may be harmful,

HEALTH HAZARDS (ACUTE AND CHRONIC): None known.

MATERIAL SAFETY DATA SHEET

CARCINOGENICITY: No. NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air If breathing is difficult, get medical attention. EYE CONTACT: Flush with large quantities of water for 15 minutes and seek medical attention.

SKIN CONTACT: Immediately flush with large quantities of water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Get medical attention for irritation or any other symptom.

INGESTION: Do not induce vomiting. Dilute by giving water. Keep warm and quiet. Call physician.

CAUTION: Do not induce vomiting or give water to anyone who is having trouble breathing, is unconscious, or having convulsions.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

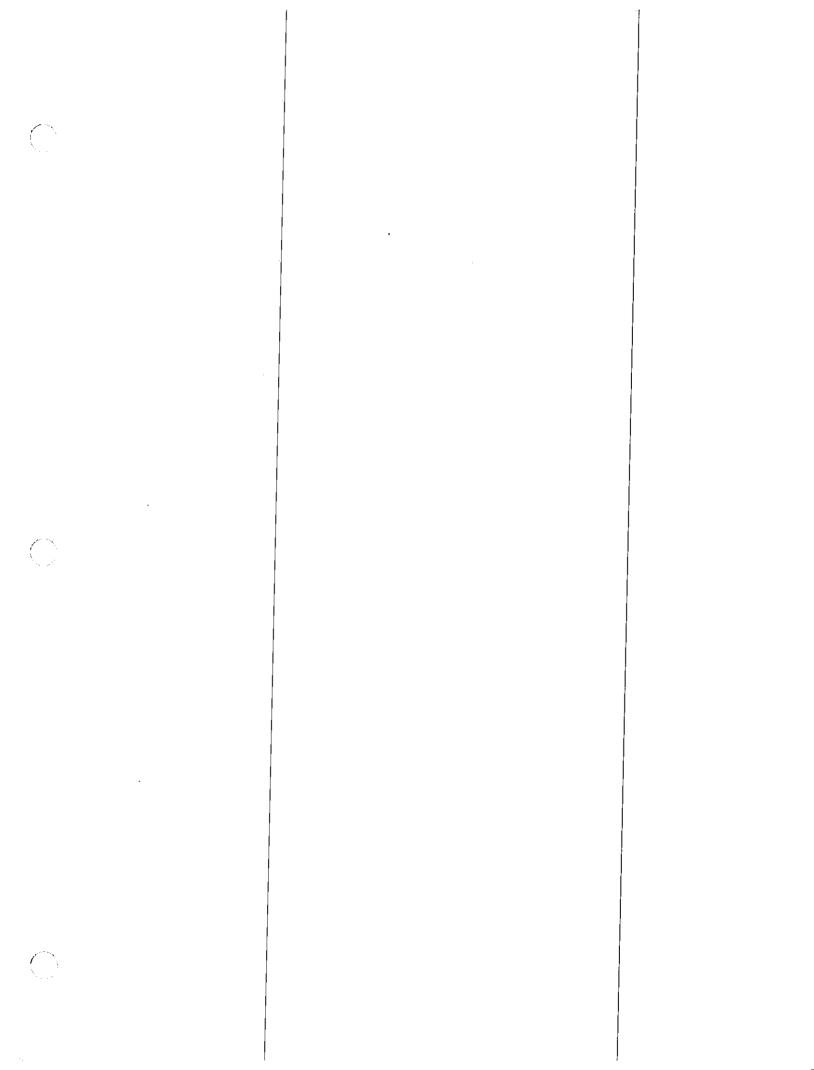
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Absorb liquid with inert solids and shovel into containers suitable for transport and disposal. If necessary, dike spill and prevent material from entering sanitary sewers or natural water reservoirs.
WASTE DISPOSAL METHOD: Dispose in accordance with federal, state and local regulations. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry, well ventilated area.
OTHER PRECAUTIONS: Store in closed containers in a cool, dry, well ventilated area away from heat and strong oxidizers.

	I		
 SECTION VIII	- CONTROL	MEASIIRES	==========

RESPIRATORY PROTECTION: Use approved NIOSH respirator when TLV is exceeded. VENTILATION: General ventilation is sufficient.
PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection.
EYE PROTECTION: Use chemical safety glasses, or goggles for eye protection.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeves and apron is recommended. WORK/HYGIENIC PRACTICES: Use general safety precautions when handling this material.

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.



MATERIAL SAFETY DATA SHEET SLIDE OUT LUBE Page: 1 PRODUCT NAME: SLIDE OUT LUBE HMIS CODES: HFRP PRODUCT CODE: 41105 ==== SECTION I - MANUFACTURER IDENTIFICATION ==== MANUFACTURED FOR: Camco Manufacturing, Inc. ADDRESS: 121 Landmark Drive Greensboro, NC 27409 EMERGENCY PHONE : 336-668-7661 **DATE REVISED: 02/26/01** INFORMATION PHONE: 336-668-7661 NAME OF PREPARER : CAMCO MANUFACTURING, INC. 121 LANDMARK DR. **GREENSBORO, NC 27409** 1-800-334-2004 === SECTION || - HAZARDOUS INGREDIENTS/SARA ||| INFORMATION ==== OSHA PEL ACGIH SARA REPORTABLE COMPONENTS CAS NUMBER TLV (ppm) III LIST (ppm) Aliphatic petroleum disstillate 8052-41-3 100 100 No 2-Butoxyethanol 111-76-2 50 25 No Petroleum Distillate 64742-53-6 5mg/m3 5mg/m3 No Isobutane / Propane blend 75-98-6 800 No 74-98-6 1000 1000 No SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS **BOILING RANGE:** N/A SPECIFIC GRAVITY (H2O=1): 0.832 VAPOR PRESSURE: PSIG @ 70°F (Aerosols): Max. 60 **VAPOR DENSITY: N/A EVAPORATION RATE: N/E SOLUBILITY IN WATER: Insoluble** APPEARANCE AND ODOR: Light straw spray with aliphatic solvent odor. SECTION IV - FIRE AND EXPLOSION HAZARD DATA ======= FLAMMABILITY as per USA FLAME PROJECTION TEST: (aerosols) Extremely Flammable. FLASH POINT (non aerosols): N/A METHOD USED: N/A FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/E **UPPER: N/E** EXTINGUISHING MEDIA: Foam, Alcohol foam, CO2, Dry chemical, water fog, other. SPECIAL FIREFIGHTING PROCEDURES: Use self contained breathing apparatus and protective clothing. UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not expose aerosols to temperatures of over 130°F or the container may rupture. ==== SECTION V - REACTIVITY DATA === STABILITY: Stable CONDITIONS TO AVOID: Open flame, welding arcs, heat, sparks. INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizers HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, and various hydrocarbons. HAZARDOUS POLYMERIZATION: Will not occur. ==== SECTION VI - HEALTH HAZARD DATA =========== INHALATION: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness. EYE CONTACT: Mild irritation. SKIN CONTACT: Mild irritation due to defatting of skin.

MATERIAL SAFETY DATA SHEET SLIDE OUT LUBE Page: 2

INGESTION: Possible chemical pneumonitis if aspirated into lungs. Nausea. HEALTH HAZARDS (ACUTE AND CHRONIC): (Effects due to excessive exposure to the raw materials of this mixture.) May cause elevated carboxyhemoglobin levels, eye damage, lung damage,

CARCINOGENICITY: No. NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate existing eye, skin, or upper respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air resuscitate if necessary. Get medical attention. EYE CONTACT: Flush with water for at least 15 minutes. If irritated, seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritated, seek medical attention. Remove contaminated clothing and launder before re-wearing.

INGESTION: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get

immediate medical attention.

== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spilled liquid with suitable medium. Incinerate or landfill according to local, state and federal regulations. Do not flush into sewers.

WASTE DISPOSAL METHOD: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not puncture or incinerate containers. Do not store at temperatures over 130°F.

OTHER PRECAUTIONS: Keep out of the reach of children. Avoid food contamination. Remove ignition sources.

= SECTION VIII - CONTROL MEASURES ============

RESPIRATORY PROTECTION: If vapor concentration exceeds TLV, use respirator approved by NIOSH/MSHA for organic vapor. VENTILATION: Adequate ventilation to keep vapor concentration below TLV. PROTECTIVE GLOVES: Neoprene, if skin easily irritated. EYE PROTECTION: Safety glasses recommended. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK/HYGIENIC PRACTICES: Wash with soap and water before handling food. Remove contaminated clothing.

======= SECTION X - DISCLAIMER ========

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The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

MATERIAL SAFETY DATA SHEET SLIDE OUT RUBBER SEAL CONDITIONER Page: 1 PRODUCT NAME: SLIDE OUT RUBBER SEAL CONDITIONER HMIS CODES: H F R P **PRODUCT CODE: 41135** == Section i - Manufacturer identification ==== MANUFACTURED FOR: Camco Manufacturing, Inc. ADDRESS: 121 Landmark Drive Greensboro, NC 27409 EMERGENCY PHONE : 336-668-7661 DATE REVISED: 02/26/01 INFORMATION PHONE: 336-668-7661 NAME OF PREPARER : CAMCO MANUFACTURING, INC. 121 LANDMARK DR. **GREENSBORO, NC 27409** 1-800-334-2004 SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ==== OSHA PEL ACGIH **SARA** REPORTABLE COMPONENTS CAS NUMBER TLV (ppm) III LIST (ppm) Petroleum Distillate 64742-47-8 N/E N/E Nο Petroleum Distillate 5 mg/m3 **Proprietary** 5 mg/m3 Nο Isobutane/prpopnae blend 75-28-5 800 800 No 74-98-6 1000 1000 Nο 141-78-6 **Ethyl Acetate** 400 400 No ====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ====== **BOILING RANGE:** SPECIFIC GRAVITY (H2O=1): 0.88 N/A VAPOR PRESSURE: PSIG @70°F (Aerosols): Max. 70 **VAPOR DENSITY: N/A EVAPORATION RATE: N/E** SOLUBILITY IN WATER: Negligible APPEARANCE AND ODOR: Dark Opaque Liquid with mild petroleum odor. Material foams upon contact with surface. ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA == FLAMMABILITY as per USA FLAME PROJECTION TEST: (aerosols) Extremely Flammable. FLASH POINT (non-aerosols): N/A METHOD USED: N/A FLAMMABLE LÌMITS IN AIR BY VOLUME- LOWER: N/E UPPER: N/E EXTINGUISHING MEDIA: Foam, Alcohol foam, CO2, Dry chemical, water fog, other. SPECIAL FIREFIGHTING PROCEDURES: Use self contained breathing apparatus and protective clothing. UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not expose aerosols to temperatures of over 130°F or the container may rupture, ==== SECTION V - REACTIVITY DATA ====== STABILITY: Stable CONDITIONS TO AVOID: Open flame, welding arcs, heat, sparks. INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizers HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, HAZARDOUS POLYMERIZATION: Will not occur. INHALATION: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, lethargy, nausea. EYE CONTACT: Irritation.

SKIN CONTACT: Mild irritation, redness, drying due to defatting.

MATERIAL SAFETY DATA SHEET SLIDE OUT RUBBER SEAL CONDITIONER

Page: 2

INGESTION: Nausea, dizziness, loss of muscle coordination, Aspiration pneumonia HEALTH HAZARDS (ACUTE AND CHRONIC): Not Established.

CARCINOGENICITY: No. NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate existing eye, skin, or upper respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air, resuscitate if necessary. Get medical attention. EYE CONTACT: Flush with water for at least 15 minutes. if irritated, seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritated, seek medical attention. Remove contaminated clothing and launder before re-wearing.

INGESTION: DO NOT INDUCE VOMITING. Get immediate medical attention.

== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Absorb spilled liquid with suitable medium. Incinerate or landfill according to local, state and federal regulations. Do not flush into sewers.
WASTE DISPOSAL METHOD: Aerosol cans when vented to atmospheric pressure through

normal use, pose no disposal hazard.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not puncture or incinerate containers. Do not store at temperatures over 130°F.

OTHER PRECAUTIONS: Keep out of the reach of children. Avoid food contamination. Avoid inhalation of spray mist. Avoid water contamination.

SECTION VIII - CONTROL MEASURES ===========

RESPIRATORY PROTECTION: If vapor concentration exceeds TLV, use respirator approved by NIOSH/MSHA for organic vapor.

VENTILATION: Adequate ventilation to keep vapor concentration below TLV.

PROTECTIVE GLOVES: Neoprene or nitrile if contact expected.

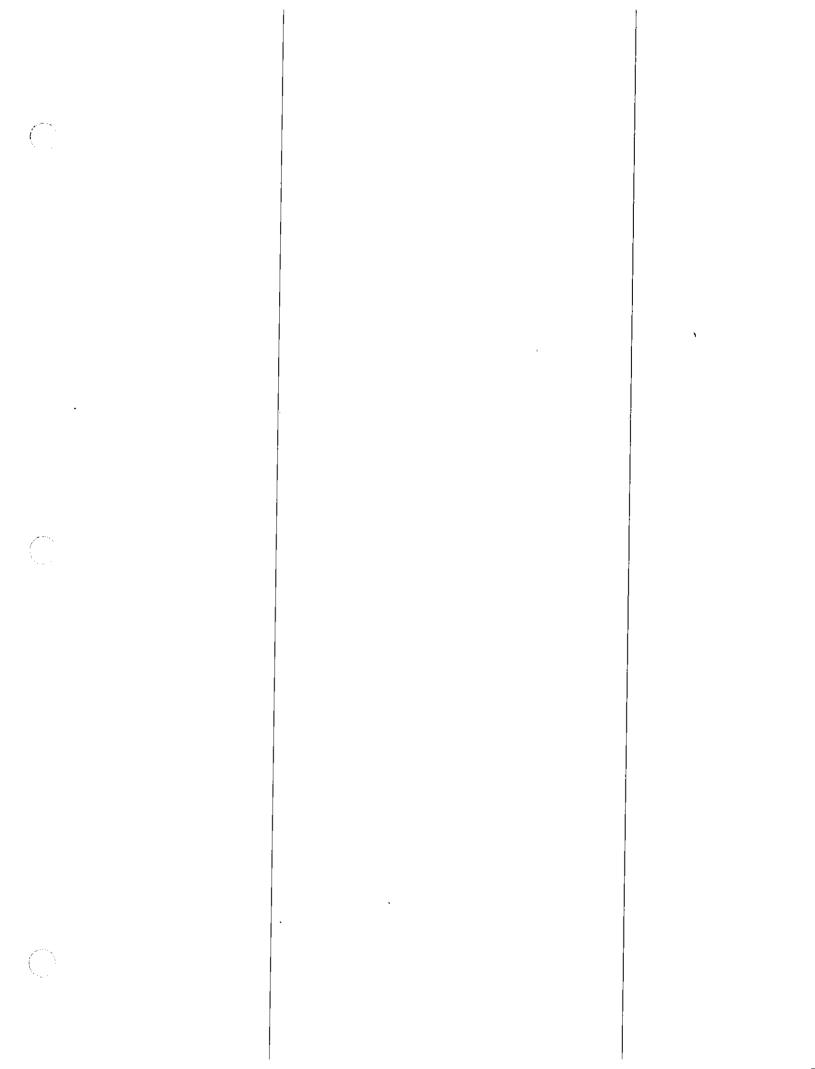
EYE PROTECTION: Safety glasses recommended.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK/HYGIENIC PRACTICES: Wash with soap and water before handling food. Remove contaminated clothing.

	1	
SECTION X -	DISCLAIMER	

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Pro-Strength Pro-Tec RV Roof System

Section 1- Chemical Product and Company Identification

Product Name:

Pro-Tec RV Roof Cleaner

Pro-Strength

Supplier:

Camco Manufacturing, Inc. 121 Landmark Drive

Greensboro, NC 27409

1-800-334-2004

Product Use:

Clean Agent

Product Code:

41068 (Gallon)

Date of Preparation/Revision:

December 12, 2014

In case of Emergency:

1-800-535-5053

Section 2- Hazards identification

Physical State:

Liquid. [CLEAR, PALE YELLOW, LIQUID WITH CHARACTERISTIC SWEET ODOR]



WARNING

GHS Classifications

Eye Damage / Irritation (Category 2B) Acute Toxicity - Inhalation (Category 4) Skin Damage / Irritation (Category 3) Acute Oral Toxicity (Category 4)

Hazard Statements

H302 Harmful if swallowed

H316 Causes mild skin irritation H320 Causes eye irritation

H332 Harmful if inhaled

Precautionary statements

P102 Keep out of reach of children

P233 Keep container tightly closed

P260 Do not breathe dust/fumes/gas/mist/vapors/spray

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

Response statements

P330 Rinse mouth

P331 Do Not induce vomiting

P301 + P312 IF SWALLOWED: Call a Poison Center or Doctor/Physician if you feel unwell P304 + P340 + P313

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention

Pro-Strength Pro-Tec RV Roof System

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minute's. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persist get medical attention

P332 + P313 If skin irritation persist get medical attention

P321 Specific treatment (see First Aid Measures on Safety Data Sheet)

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

WARNING! This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. This product is an aqueous solution which will not burn. Irritating and toxic fumes and gases may be released upon thermal processing or during combustion.

Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

Potential Health Effects: Skin

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing.

Medical Conditions Aggravated by Exposure

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

See toxicological information (section 11)

Section 3 - Composition, Information on Ingredients

Name	CAS Number	% Volume
Sodium Metasilicate	6834-92-0	$\overline{0.4 - 0.7\%}$
Linear Alcohol Ethoxylate	68439-46-3	2 - 4%
Sodium Alkylbenzene Sulfonate	68081-81-2	2 - 4%
Coco Aminopropyl Betaine	61789-40-0	2 - 4%
Sodium Lauryl Sulfate	151-21-3	2 - 4%

Component Related Regulatory Information

Product is biodegradable within 28 days

Component Information/Information on Non-Hazardous Components

This product is considered to be non-hazardous under 29 CFR 1910.1200

SAFETY DATA SHEET

Pro-Strength Pro-Tec RV Roof System

Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.

Seek medical attention at once.

Skin contact For skin contact, wash immediately with soap and water. If irritation persists get medical

attention.

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not

induce vomiting. Dilute by giving water. Keep warm and quiet. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim

who is unconscious or is having convulsions.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

Notes to Physician Provide general supportive measures and treat symptomatically.

Section 5 - Fire-Fighting Measures

FLASH POINT: >210° F (100° C) METHOD USED: PMCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

General Fire Hazards

This product is an aqueous solution which will not burn. Non-Flammable

Hazardous Combustion Products

Decomposition may yield carbon dioxide compounds and oxides of nitrogen.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental release measures

Containment Procedures

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unrecessary personnel away.

Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

Section 7- Handling and Storage

Handling Procedures

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

Section 9 - Physical and Chemical Properties

Appearance:

Odor:

Physical State: pH: (@59° F / 15° C) Light Straw Translucent Liquid

Fresh Fragrance

Liquid

9.5 to 11.5

Freeze Point:

Vapor pressure:

Vapor density:

Boiling Point:

Melting Point:

Solubility:

-31° F (-35° C)

Not Applicable

Not Applicable

>212°F (>100° C)

Not Determined

Completely

Specific Gravity: (@70° F / 21° C) 1.020

Flash Point (PMCC): >210° F (100° C)
Auto-ignition Temperature: Not Determine
Flammable Limits in Air by Volume: Not Applicable
Evaporation Rate: Similar to Water
Decomposition Temperature: Not Available

Viscosity (cps): < 50 cps VOC (%): < 2% by weight

Physical Properties: Additional Information
No additional information available

Section 10 - Stability and Reactivity

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and incompatible materials.

Incompatibility

This product is incompatible with flammable and combustible materials, strong oxidizing agents.

Hazardous Decomposition

Decomposition may yield carbon dioxide, carbon monoxide and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No information available for the product.

This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

No information available for the product.

Epidemiology

No epidemiological data is available for this product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Other Toxicological Information

No additional information available.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport information

US DOT Information

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

IMDG

Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

General Product Information

No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.

Louisiana Spill: This material is not listed.

Massachusetts Spill: This material is not listed.

Massachusetts Substances: This material is listed.

Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New York Acutely Hazardous Substances: This material is not listed. New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances: This material is listed. Rhode Island Hazardous Substances: This material is not listed

California Prop 65 Warning: This material is not listed

Additional Regulatory Information

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

Section 16 - Other information

NFPA CODES: Health	1
Flammability	1
Reactivity	n

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: December 12, 2014 (Supersedes all previous SDS)

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Section 1- Chemical Product and Company Identification

Product Name:

Pro-Tec RV Roof Protectant

Pro-Strength

Supplier:

Camco Manufacturing, Inc.

121 Landmark Drive Greensboro, NC 27409

1-800-334-2004

Product Use:

Clean Agent/Protectant

Product Code:

41448 (Gallon)

Date of Preparation/Revision:

December 12, 2014

In case of Emergency:

1-800-535-5053

Section 2- Hazards identification

Physical State:

Liquid. [OPAQUE, OFF-WHITE, LIQUID WITH CHARACTERISTIC LEMON ODOR]

WARNING

GHS Classifications

Eye Damage / Irritation (Category 2B)
Acute Toxicity - Inhalation (Category 5)

Skin Damage / Irritation (Category 3)

Acute Oral Toxicity (Category 5)

Hazard Statements

H303 May be harmful if swallowed

H316 Causes mild skin irritation

H320 Causes eye irritation

H333 May be harmful if inhaled

Precautionary statements

P102 Keep out of reach of children

P233 Keep container tightly closed

P264 Wash thoroughly after handling

Response statements

P330 Rinse mouth

P331 Do Not induce vomiting

P304+312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell

P305 + P351 + P338 | IF IN EYES: Ri

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persist get medical attention

P332 + P313 If skin irritation persist get medical attention

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P321 Specific treatment (see First Aid Measures on Safety Data Sheet)

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

WARNING! This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. This product is an aqueous solution which will not burn.

Irritating and toxic fumes and gases may be released upon thermal processing or during combustion.

Potential Health Effects: Eyes

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

Potential Health Effects: Skin

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing.

Medical Conditions Aggravated by Exposure

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

See toxicological information (section 11)

Section 3 - Composition, Information on Ingredients

<u>Name</u>	CAS Number	% Volume
Ethoxylated Alcohol	68439-46-3	1 - 2%
Alkoxy Polyethoxy Ethanol	60828-78-6	0.5 - 1%
Silicone Fluid	63148-62-9	5 – 10%
Carnauba Wax	NA	2 – 4%

Component Information/Information on Non-Hazardous Components

This product is considered to be non-hazardous under 29 CFR 1910.1200

Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.

Seek medical attention at once.

Skin contact For skin contact, wash immediately with soap and water. If irritation persists get medical

attention.

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not

induce vomiting. Dilute by giving water. Keep warm and quiet. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim

who is unconsdious or is having convulsions.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

Notes to Physician

Provide general supportive measures and treat symptomatically.

Section 5 - Fire-Fighting Measures

FLASH POINT: >210° F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: N/A

UPPER: N/A

General Fire Hazards

This product is an aqueous solution which will not burn. Non-Flammable

Hazardous Combustion Products

Decomposition may yield carbon dioxide compounds and oxides of nitrogen.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

Unusual Fire and Explosion Hazards

Keep away from heat, sparks, and open flame. Guard against spontaneous combustion of improperly discarded oily rags.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental release measures

Containment Procedures

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

Section 7- Handling and Storage

Handling Procedures

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

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Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

Section 9 - Physical and Chemical Properties

Appearance:

Opaque Off-White Liquid

Odor:

Lemon Fragrance

Physical State:

Liquid 6.0 to 8.5

pH: (@59° F / 15° C)

Not Applicable

Vapor pressure: Vapor density:

Not Applicable >200°F (>93.3° C)

Boiling Point: Melting Point:

Not Determined Partial Soluble

Solubility: Specific Gravity: (@70° F / 21° C)

0.958

Freeze Point: Flash Point (TCC):

32° F (0° C) >210° F (>100° C)

Auto-ignition Temperature:

Not Flammable

Flammable Limits in Air by Volume:

Not Applicable Similar to Water

Evaporation Rate:
Decomposition Temperature:

Not Available

Viscosity (cps):

< 50cps

Physical Properties: Additional Information
No additional information available

Section 10 - Stability and Reactivity

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and incompatible materials.

Incompatibility

This product is incompatible with flammable and combustible materials, strong oxidizing agents.

Hazardous Decomposition

Decomposition may yield carbon dioxide, carbon monoxide and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No information available for the product,

This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

No information available for the product.

Epidemiology

No epidemiological data is available for this product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Other Toxicological Information

No additional information available.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

SAFETY DATA SHEET

Pro-Strength Pro-Tec RV Roof System

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport information

US DOT Information

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

IMDG

Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

General Product Information

No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.

Louisiana Spill: This material is not listed.

Massachusetts Spill: This material is not listed.

Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New York Acutely Hazardous Substances: This material is not listed. New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances: This material is listed. Rhode Island Hazardous Substances: This material is not listed

California Prop 65 Warning: This product contains chemicals known to the State of California to

cause cancer and/or birth defects or other reproductive harm.

Additional Regulatory Information

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

Section 16 - Other information

NFPA CODES: Health 1

Flammability 1 Reactivity 0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: December 12, 2014 (Supersedes all previous SDS)

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CAMCO MFG INC -- WINDSHIELD WASHER FLUID-20, 30907 -- 7930-00N088464

Product ID: WINDSHIELD WASHER FLUID-20, 30907 MSDS Date: 04/22/1997 FSC:7930 NIIN:00N088464 MSDS Number: CHPCZ === Responsible Party === Company Name: CAMCO MFG INC Address:121 LANDMARK DR City: GREENSBORO State:NC ZIP:27409 Country: US Info Phone Num: 910-668-7661 Emergency Phone Num: 800-334-2004 CAGE:GO309 === Contractor Identification === Company Name: CAMCO MANUFACTURING INC Address:121 LANDMARK DR Box: City: GREENSBORO State:NC ZIP:27409 Country: US Phone: 919-668-7661 CAGE: 1EA43 Company Name: CAMCO MFG INC Address:121 LANDMARK DR City: GREENSBORO State:NC ZIP:27409-9603 Country: US Phone: 919-668-7661 CAGE: GO309 ======= Composition/Information on Ingredients ========= Ingred Name: METHANOL; (METHYL ALCOHOL) (SARA 313) (CERCLA). VP:96.1 @ 20C. CAS: 67-56-1 RTECS #:PC1400000 Fraction by Wt: <21% OSHA PEL:200 PPM, S ACGIH TLV: 200 PPM; 250 STEL, S EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: ADDITIVES Fraction by Wt: <1% OSHA PEL:N/K ACGIH TLV: N/K Ingred Name: VOLATILE ORGANIC COMPOUNDS: COATING & MATERIAL - 1.65 LB/GAL. RTECS #:9999999VO Ingred Name:FIRE FIGHT PROC:PREVENT PRESSURE BUILD-UP & POSSIBLE

AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF (ING 5) RTECS #:9999992Z

Ingred Name: ING 4: WATER IS USED, FOG NOZZLES ARE PREFERABLE.

RTECS #:9999999ZZ

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic:INHAL:MAY CAUSE NOSE & THROAT IRRIT.
HIGH CONCS MAY CAUSE ACUTE CNS DEPRESS CHARACT BY HDCHS, DIZZ, NAUS
& CONFUSN. EYE CONT:MAY CAUSE IRRIT. SKIN CONT:FREQUENT/PRLNG CONT
MAY CAUSE IRRIT EXPER AS BUR NING, DRYING, CRACKING & REDNESS. SKIN
ABSORPTION:HARMFUL QTYS OF METHYL ALCOHOL MAY EFT EYES & CNS. (EFTS
OF OVEREXP)

Explanation of Carcinogenicity; NOT RELEVANT

Effects of Overexposure:HLTH HAZ:INGEST:MAY CAUSE NAUS, ABDOM PAIN, HDCH, SHORTNESS OF BREATH, VISUAL IMPAIRMENT & BLINDNESS. SEV POIS CAN CAUSE COMA & DEATH. INGEST OF LG AMTS OF METHYL ALCOHOL HAS BEEN SHOWN TO DMG ORGS IN CL LIVER, KIDNEY, PANCREAS, HEART, LUNGS & BRAIN. ALTHOUGH THIS RARELY OCCURS, SURVIVORS OF SEV INTOX MAY SUFFER(SUPDAT)

Medical Cond Aggravated by Exposure: OVEREXPOSURE MAY AGGRAVATE PRE-EXISTING DISORDERS OF THE EYES.

First Aid:INHAL:REMOVE TO FRESH AIR. IF BRTHG HAS STOPPED, APPLY ARTF RESP. IF BRTHG IS DFCLT, GIVE OXYG PROVIDED QUALIFIED OPERATOR IS AVAIL. GET MED ATTN. EYES:FLUSH W/LG QTYS OF WATER FOR AT LST 15 MINS & SE EK MED ATTN. SKIN:REMOVE CONTAM CLTHG &WASH CONTAM SKIN W/LG AMTS OF SOAP & WATER. IF IRRIT PERSISTS, GET MED ATTN. LAUNDER CLTHG BEFORE REUSE. INGEST:DO NOT INDUCE VOMIT. (NEVER GIVE (SUPP DATA)

Flash Point Method:PMCC

Flash Point:105F,41C

Lower Limits: 7.3% Upper Limits: 36%

Extinguishing Media: FOAM, DRY CHEM, CARBON DIOXIDE/ANY CLASS B EXTING AGENT. WATER MAY BE UNSUITABLE AS EXTING MEDIUM, BUT HELPFUL (SUPDAT)

Fire Fighting Procedures: USE NIOSH APPRVD SCBA & FULL PROT EQUIP . USE WATER SPRAY TO COOL FIRE EXPOS CNTNRS. WATER MAY BE INEFT, BUT MAY BE USED TO COOL EXPOS CNTNRS TO (ING 4)

Unusual Fire/Explosion Hazard: HANDLE AS FLAMM LIQ. VAPS FORM EXPLO MIXT IN AIR BTWN UPPER & LOWER EXPLO LIMS WHICH CAN BE IGNITED BY MANY SOURCES SUCH AS PILOT LIGHTS, OPEN FLAMES, (SUPDAT)

============ Accidental Release Measures ====================

Spill Release Procedures KEEP SPECTATORS AWAY. ELIM ALL IGNIT SOURCES (FLAMES, HOT SURFS & SOURCES OF ELEC, STATIC/FRICTIONAL SPKS). DIKE & CNTN SPILL W/INERT MATL (E.G., SAND, EARTH). TRANSFER LIQS TO COVERED METAL CNTNRS FO R RECOVERY/DISP, OR REMOVE W/INERT ABSORBENT.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: AVOID PROLONGED OR REPEATED SKIN CONTACT. DO NOT SWALLOW. STORE IN CLOSED CONTAINERS IN A COOL, DRY WELL VENTILATED AREA. Other Precautions: KEEP AWAY FROM SPARKS & OPEN FLAME. ======== Exposure Controls/Personal Protection ========== Respiratory Protection: USE | NIOSH APPROVED RESPIRATOR WHEN TLV IS EXCEEDED. Ventilation: PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EXPOSURE BELOW TLV. Protective Gloves: APPROPRIATE IMPERMEABLE GLOVES. Eye Protection: ANSI APPRVD | CHEM WORKERS GOGGLES . Other Protective Equipment EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA . LONG SLEEVES & APRON IS RECOMMENDED. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health EXTING MEDIA: IN KEEPING ADJACENT CNTNRS COOL. EXPLO HAZ: ELEC MOTORS & SWITCHES. HAZ DECOMP PROD: IN SUFFICIENT CONCS CAN ACT AS ASPHY. EFTS OF OVEREXP: PERM NEUROLOGICAL DMG. FIRST AID PROC: ANYTHING BY MOUTH TO UNCONSCIOUS PERSON). CALL POISCTL CTR, HOSPITAL EMERGENCY ROOM/MD IMMED. Boiling Pt:B.P. Text:>148F.>65C Vapor Pres:SEE ING 1 Vapor Density: HVR/AIR Spec Gravity: 0.95 (H*20=1) Evaporation Rate & Reference:GREATER/N-BUTYL ACETATE Solubility in Water:SOLUBLE Appearance and Odor: CLEAR BLUE LIQUID; MILD ALCOHOL ODOR. Stability Indicator/Materials to Avoid:YES STRONG ACIDS & STRONG OXIDIZING AGENTS. Stability Condition to Avoid: IGNITION SOURCES SUCH AS HEAT, SPARKS, FLAMES. Hazardous Decomposition Products:BURNING CAN PRDCE CARBON MONOXIDE &/OR CARBON DIOXIDE. CARBON MONOXIDE IS HIGHLY TOX IF INHALED, CARBON DIOXIDE (SUPDAT) Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this

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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21 08 2015

Revised On: 21.08.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Bender Colonial White Paint, Aerosol

Article number: Sector of Use

Industrial uses: Uses of substances as such or in preparations at industrial sites Consumer uses: Private households / general public / consumers

Paints Product category

Manufacturer/Supplier:

Bender's Wholesale Dist., Inc.

P:O. Box 1407 Elkhart, IN 46515 phone: (574) 264-4409 (800) 424-9300

Emergency telephone number:

SECTION 2: Hazards Identification

Classification of the substance or mixture

Flam, Aerosol 1

Extremely flammable aerosol.

Press, Gas

Contains gas under pressure; may explode if heated.

Skin Irrit. 2

Causes skin irritation.

Eye Irrit. 2A

Causes serious eye irritation.

Repr. 2

Suspected of damaging fertility or the unborn child.

STOT SE 3

May cause drowsiness or dizziness.

STOT RE 2 Hazard pictograms May cause damage to organs through prolonged or repeated exposure.



Signal word

Hazard statements

Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.
Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Use only outdoors or in a well ventilated area.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

IF:INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INGESTED: Rinse mouth with water. Do not induce vomiting.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 122° F (50° C). Store locked up in a well ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Description:

Mixture of substances listed below with nonhazardous additions.

Dangerous c	omponents:
67-64-1	Acetone
74-96-6	Propane
110-54-3	Hexane
106-97-7	N-Bulane
13463-67-7	Titanium Dioxide
108-88-3	Toluene
64742-89-8	VM & P Naptha
108-10-1	Methyl Isobutl Ketone
64742-47-8	Mineral Spirits
2807-30-9	Glycol Ether EP
1330-20-7	Xylene (mix)
108-65-6	PM Acetale

SECTION 4: First ald measures

After inhalation: After skin contact: After eye contact: After swallowing:

Supply fresh air; consult dector in case of complaints.

Generally the product does not irritate the skin.

Rinse opened eye for several minutes under running water. Then consult a doctor.

Rinse mouth with water. Do not induce vomiting.

(Continued on page 2)

15 - 25% 15 - 25% 10 - 20% 10 - 20% 5 - 10% 1 - 5% 1-5% 1 - 5% 1 - 5% 1 - 5% 1 - 5% 1 - 5%

BEI

Revised On: 21 08:2015

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SECTION 4: First aid measures (Continued)
   Most important symptoms and
                                              Dizziness
   effects:
   Indication of any immediate
                                              No further relevant information available.
   medical attention needed:
   SECTION 5: Firefighting measures
                                                 CO2, powder or water spray. Fight larger fires with water spray.
   Extinguishing agents:
                                                 Can form explosive gas-air mixtures.
   Special Hazards:
   Protective equipment for firefighters:
                                                Mount respiratory protective device.
   SECTION 6: Accidental release measures
   Personal precautions, protective
   equipment and emergency
    procedures
                                              Use respiratory protective device against the effects of fumes/dust/aerosol.
                                              Do not allow product to reach sewage system or any water course.
   Environmental precautions:
   Methods and material for
   containment and cleaning up:
                                              Dispose of contaminated material as waste according to section 13.
   SECTION 7: Handling and storage
   Precautions for safe handling
                                              Use only in well ventilated areas.
                                              Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
   Firelexplosion protection:
                                              Do not spray onto a naked flame or any incandescent material.
                                              Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.
   Storage Requirements:
                                              Store locked up.
   SECTION 8: Exposure controls/personal protection
   Ingredients with limit values that require monitoring at the workplace:
   67-64-1
             Acetone
PEL (USA) Long-term value: 2400 mg/m³,1000 ppm
REL (USA) Long-term value: 590 mg/m³, 250 ppm
TLV (USA) Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm
             BE1
   74-98-6 Ргорале
PEL (USA) Long-term value: 1800 mg/m³, 1000 ppm
REL (USA) Long -term value: 1800 mg/m3, 1000 ppm
TLV (USA) refer to Appendix F
   110-54-3 Hexane
PEL (USA) Long-term value: 1800 mg/m³, 500 ppm
REL (USA) Long -term value: 180 mg/m³, 50 ppm
TLV (USA) Long-term value: 180 mg/m³, 50 ppm
             Short-term value: 176 mg/m³, 50 ppm
             Skin; BEI
   108-88-3 Toluene
PEL (USA) Long-term value: 200 ppm
             Ceiling limit value: 300: 500* ppm
             10-min peak per 8-hr shift
REL (USA) Short-term value: 560 mg/m³, 150 ppm
Long -term value: 375 mg/m³, 100 ppm
TLV (USA) Long-term value: 75 mg/m³, 20 ppm
             RFI
   106-97-8 N-Butane
REL (USA) Long-term value: 1900 mg/m³. 800 ppm
TLV (USA) Short-term value: 2370 mg/m³, 1000 ppm
    108-65-6 PM Acetate
WEEL (USA) Long-term value: 50 ppm
    108-10-1 Methyl Isobutyl Ketone
PEL (USA) Long-term value: 410 mg/m², 100 ppm
REL (USA) Short-term value: 300 mg/m3, 75 ppm
Long-term value: 205 mg/m³, 50 ppm
TLV (USA) Short-term value: 307 mg/m³, 75 ppm
             Long -term value: 82 mg/m³, 20 ppm
             8EI
   1330-20-7 Xylene (mix)
PEL (USA) Long-term value: 435 mg/m3, 100 ppm
REL (USA) Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV (USA) Short-term value: 651 mg/m³, 150 ppm
             Long -term value: 434 mg/m³, 100 ppm
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SECTION 8: Exposure controls/personal protection (Communed)
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Ingredients with biological limit values:

67-64-1 Acetone BEI (USA) 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

110-54-3 Hexane

BEI (USA) 0.4 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: 2.5-Hexanedione without hydrolysis

108-88-3 Toluene

BEI (USA) 0.02 mg/L

Medium: blood

Time: prior to last shift of wookweek

Parameter: Toluene

0.03 mg/L Medium; urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine

Medium: urine Time: end of shift

Parameter: O-Cresol with hydrolysis (background)

108-10-1 Methyl Isobutyl Ketone

BEI (USA) 1 mg/L

Medium: urine Time: end of shift Parameter: MIBK

1330-20-7 Xylene

BEI (USA) 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhipurruric acids

Hygienic protection:

Immediately remove all soiled clothes and contaminated clothing.

Wash hands after use.

Avoid contact with eyes and skin, Do not eat or drink while working.

Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short

and/or long term overexposure conditions exist, a charcoal filter respirator should be worn. If you suspect

overexposure conditions exist, please consult an authority on chemical hygiene.

Hand protection:

Protective gloves. The glove material must be impermeable and resistant to the substance.

Eye protection:

Tightly sealed goggles.

SECTION 9: Physical and chemical properties

Appearance:

Aerosol Aromatic,

Odor:

Not determined.

Odor threshold:

Not determined. Undetermined.

pH-value: Melting point/Melting range: Boiling point/Boiling range:

-47°F (-44 °C)

Flash point:

-2°F (-19 °C) Extremely flammable.

Flammability (solid, gas): Decomposition temperature:

Not determined.

Auto-igniting:

Product is not selfigniting.

Danger of explosion:

In use, may form flammable/explosive vapor-air mixture.

Lower Explosion Limit: Upper Explosion Limit:

10.9 Vol %

Vapor pressure: Relative Density: Not determined.

Between 0.77 and 0.85 (Water = 1.00)

Vapor density: Evaporation rate Not determined. Not applicable.

(Continued on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

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	and chemical	

Partition coefficient: n-octonal/water: Not determined. Solubility: Not determined. Viscosity: Not determined. VOC content: 4.22 lb/gl / 505.9 g/l

VOC content (less exempt solvents): 49.1% 0.90 MIR Value: 20.6% Solids Content:

SECTION 10: Stability and reactivity

Stable at normal temperatures.

Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatures. Conditions to avoid:

Chemical Stability: Not fully evaluated.

No dangerous reactions known. Possibility of hazardous reactions:

No further relevant information available. Incompatible materials: Hazardous decomposition: No dangerous decomposition products known.

Chemical Stability: Not fully evaluated.

No dangerous reactions known. Possibility of hazardous reactions:

Incompatible materials: No further relevant information available. No dangerous decomposition products known. Hazardous decomposition:

SECTION 11: Toxicological information

106-97-8 N-Butane

Inhalative LD50/4 h 658 mg/l (rat) 13463-67-7 Titanium Dioxide

>20000 mg/kg (rat) 1.050 Oral Dermal LD50 >10000 mg/kg (rbt) Inhalative LD50/4 h 6.82 mg/l (rat) 108-10-1 Methyl Isobutyl Ketone 2100 mg/kg (rat) Oral LD50 Dermal LD50 16000 mg/kg (rbt) Inhalative LD50/4 h 8.3-16.6 mg/l (rat) 1330-20-7 Xylene (mix) 8700 mg/kg (rat) 2000 mg/kg (rab) LD50 Oral LDSO Dermal

Inhalative LD50/4 h 6350 mg/l (rat) 108-65-6 PM Acetate

LD50 Oral 8500 mg/kg (rat) Inhalative LD50/4 h 35.7 mg/l (rat)

Information on toxicological effects: No data available. No irritant effect. Skin effects: Eye effects: Irritating effect.

No sensitizing effects known. Sensitization:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

108-88-3 Toluene Titanium Dioxide 13463-67-7 Methyl Isobutyl Ketone 108-10-1 1330-20-7 Xylene (mix)

NTP (National Toxicity Program) None of the ingredients is listed.

SECTION 12: Ecological information

Hazardous to water, do not empty into drains.

Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: The product is degradable after prolonged exposure to natural weathering processes. No further relevant information available.

No further relevant information available. Mobility in soil: **Ecotoxical effects:** No further relevant information available. Other adverse effects:

SECTION 13: Disposal considerations

Dispose of in accordance with local, state and federal regulations. Do not puncture, incinerate or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Completely empty cans should be recycled. Recommendation:

(Continued on page 5)

3

2B

2B

3

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SECTION 14: Transport information

UN-Number UN1950

Consumer Commodity ORM-D DOT Aerosols, flammable

1950 Aerosols ADR

Transport hazard class(es):

2.1 No Class Marine pollutant:

Special precautions for user: Warning Gases

F-D, S-Ú EMS number:

On passenger aircraft/rail 75 kg | On cargo aircraft only: 150 kg Quantity limitations:

ADR

Excepted quantities (EQ): Code: E0

Not permitted as Excepted Quantity

IMDG

Limited quantities (LQ):

Excepted quantities (EQ): Code: F0

Not permitted as Excepted Quantity

Packaging Group:

UN "Model Regulation":

UN1950, Aerosols, 2.1

SECTION 15: Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product is listed.

SARA Section 313 (Specific toxic chemical listings):

110-54-3 Hexane

108-88-3 Toluene

1330-20-7 Xylene (mix)

108-10-1 Methyl Isobutyl Ketone

CPSC: This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

13463-67-7 Titanium Dioxide

108-10-1 Methyl Isobutyl Ketone |

100-41-4 Ethyl Benzene

California Proposition 65 chemicals known to cause developmental toxicity: 108-88-3 Toluene

CANADIAN ENVIRONMENTAL

PROTECTION ACT:

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

EPA:

67-64-1 Acetone 108-88-3 Toluene

110-54-3 Hexane 108-10-1 Methyl Isobutyl Ketone

1330-20-7

Xylene (mix)

SECTION 16: Other information of

Abbreviations and acronyms:

ADR: Accord curopten sur la transport des marchandises dangereuses par Route (European Agreement concerning the International Camage of Dangereus Goods by Road)

LD50: Lethal dose, 50 percent
Flam. Gas 1; Flammable gases, Hazard Category 1
Flam. Aerosof 1; Flammable aerosofs, Hazard Category 1
Flam. La.; 2: Flammable figuids, Hazard Category 2
Flam. Lig. 2: Flammable figuids, Hazard Category 2
Skin trill, 2: Skin corrosion/mitation, Hazard Category 2
Eyo Innt. 2: Scorcus gee damage/ayo finahon, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquante Actue 1: Hazardous to the equatic environment - Aeste Hazard, Category 1
Aquatic Chronic 1: Hazardous to the equatic environment - Chronic Hazard, Category 1
Aquatic Chronic 1: Hazardous to the equatic environment - Chronic Hazard, Category 2

***** END OF SAFETY DATA SHEET *****

1 Identification of the substance and manufacturer

Trade name:

BENDERS DESIGNER BEIGE PAINT, AEROSOL

Product code: **Product category** Manufacturer/Supplier:

IG0E027 Designer Beige Paints and Coatings Bender's Wholesale Dist., Inc.

O. Box 1407 Eikhart, IN 46515 (574) 264-4409 (800) 424-9300



2 Hazard(s) identification

Emergency telephone number:

Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated. Press. Gas

H315 Causes skin irritation. Skin Irrit, 2 Eye Irrit. 2A H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child. Repr. 2

STOT SE 3 H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure. STOT RE 2

GHS Hazard pictograms

Precautionary statements







Signal word

Hazard statements

Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated. Causes skin irritation:

Causes skin Irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective cloves/protective clothing/eye protection/face protection

Wear protective gloves/protective clothing/eye protection/face protection. Do not handle until all safety precautions have been read and understood.

Wear protective gloves.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves.

Do not breathe dust/fume/gas/mist/vapors/spray.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122, F.
Protect from sunlight. Store in a well-ventilated place.
Store in a well-ventilated place. Keep container lightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/Information on Ingredients

Chemical characterization: Mixtures

product is a mixture of the substances listed below with pophazardous additions

	Chemical Description:	This product is a mixture of the substances listed below with normazardous add	unions.
-	Dangerous components:	1	
Ī	67-64-1 Acetone		<25%
, [74-98-6 propane	i i	<20%
Г	108-88-3 Toluene		<20%
¦ Γ	106-97-8 n-butane		<15%
· [64742-89-8 VM&P Naphtha		<10%
٦.	64742-47-8 Mineral Spirits		<5%
	13463-67-7 titanium dioxide		<5%
Ţ	67-63-0 isopropyl alcohol		<5%
٠.	1330-20-7 xylene (mix)		<5%

4 First-aid measures

After inhalation:

After skin contact: After eye contact:

Supply fresh air; consult doctor in case of complaints.
Remove contaminated clothing. Wash exposed area with soap and water.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a

doctor.

Rinse mouth with water. Do not induce vomiting. After swallowing:

(Contd. on page 2)

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Printing date 02/22/2016		Revised On 02/22/2016
Trade name: BENDERS DESIGNER BE	IGE PAINT, AEROSOL	
Most important symptoms and effects: Indication of any immediate medica	 Dizziness	(Contd. of page 1)
attention needed:	No further relevant information available.	
5 Fire-fighting measures Extinguishing agents: Special hazards: Protective equipment for tirefighters:	CO2, extinguishing powder or water spray. Fight larger fires with wat Can form explosive gas-air mixtures. A respiratory protective device may be necessary.	er spray.
6 Accidental release measures Personal precautions, protective equipment and emergency procedures: Methods and material for containment and cleaning up:	Use respiratory protective device against the effects of fumes/dust/ar Dispose contaminated material as waste according to section 13.	
7 Handling and storage Precautions for safe handling Storage requirements:	Use only in well ventilated areas. Keep away from sources of heat and direct sunlight. Do not conditions. Store locked up.	warehouse in subfreezing
8 Exposure controls/personal prot	ection	
Components with limit values that re		
67-64-1 Acetone		
PEL (USA) Long-term value: 2400 mg/ REL (USA) Long-term value: 590 mg/ TLV (USA) Short-term value: 1187 mg/ Long-term value: 594 mg/ BEI	m ^á , 250 ppm n/m ^á , 500 ppm	
74-98-6 propane PEL (USA) Long-term value: 1800 mg REL (USA) Long-term value: 1800 mg TLV (USA) refer to Appendix F inTLVs	/m³, 1000 ppm	
108-88-3 Toluene PEL (USA) Long-term value: 200 ppm Ceiling limit value: 300; 50 *10-min peak per 8-hr shif	O° ppm L	
REL (USA) Short-term value: 560 mg/ Long-term value: 375 mg/m TLV (USA) Long-term value: 75 mg/m BEI	n ³ , 100 ppm	
106-97-8 n-butane REL (USA) Long-term value: 1900 mg TLV (USA) Short-term value: 2370 mg	/m³, 800 ppm g/m³, 1000 ppm	,
67-63-0 isopropyl alcohol PEL (USA) Long-term value: 980 mg/r REL (USA) Short-term value: 1225 mg/r Long-term value: 980 mg/r TLV (USA) Short-term value: 984 mg/r Long-term value: 492 mg/r	n ³ , 400 ppm n ³ , 400 ppm m ³ , 400 ppm	
1330-20-7 xylene (mix) PEL (USA) Long-term value: 435 mg/r REL (USA) Short-term value: 655 mg/r Long-term value: 435 mg/r TLV (USA) Short-term value: 651 mg/r Long-term value: 434 mg/r BEI	m ³ , 150 ppm m ³ , 100 ppm m ³ , 150 ppm	
Ingredients with biological limit valu	es:	
67-64-1 Acetone BEI (USA) 50 mg/L Medium: urine Time: end of shift		
Parameter: Acetone (nons	pécific)	(Conid. on page 3)

Trade name: BENDERS DESIGNER BEIGE PAINT, AEROSOL (Contd. of page 2) 108-88-3 Toluene BEI (USA) 0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0,03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background) 67-63-0 isopropyl alcohol BEI (USA) 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 1330-20-7 xylene (mix) BEI (USA) 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids Immediately remove all soiled and contaminated clothing. Wash hands after use. Hygienic protection: Avoid contact with the eyes and skin. Do not eat or drink while working. A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical Breathing equipment: hygeine. Nitrile gloves.

Protective gloves. The glove material must be impermeable and resistant to the substance. Hand protection: Eye protection: Tightly sealed goggles 9 Physical and chemical properties Appearance: Aerosol. Odor threshold: Not determined. pH-value: Not determined. Melting point/Melting range Undetermined. Boiling point: -44 °C (-47 °F) Flash point: -19 °C (-2 °F) Flammability (solid, gas): Extremely flammable. Decomposition temperature: Not determined. Auto igniting: Product is not self-igniting. In use, may form flammable/explosive vapour-air mixture. Danger of explosion: Lower Explosion Limit: Upper Explosion Limit: 1.5 Vol % 10.9 Vol % Vapor pressure: Not determined. Between 0.77 and 0.85 (Water equals 1.00) Relative Density: Vapour density Not determined. Evaporation rate Not applicable. Partition coefficient: n-octonal/water: Not determined. Solubility: Not determined. Viscosity: Not determined. **VOC content:** 577.9 g/l / 4.82 lb/gl VOC content (less exempt solvents): 62.3 % MIR Value: 1.14 Solids content: 16.0 % 10 Stability and reactivity Reactivity: Stable at normal temperatures. Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing Conditions to avoid: temperatures. Chemical stability: Not fully evaluated.

No dangerous reactions known.

No further relevant information available.

No dangerous decomposition products known.

Possibility of hazardous reactions:

Incompatible materials: Hazardous decomposition:

Revised On 02/22/2016

nting date 02/22/2016		
ade name: BENDERS DESIGNER E	BEIGE PAINT, AEROSOL	
the control of the co	make the second section of the second section of the second section of the second section of the	(Contd. of page
	t .	<u> </u>
1 Toxicological information		F
LD/LC50 values that are relevant t	for classification:	
106-97-8 n-butane		
Inhalative LC50/4 h 658 mg/l (rat)		
13463-67-7 titanium dioxide	ga aya ya dan jira ada ada ada ada ga ada ada ada ada ada	
	(ral)	4 12 22 22 22 22 22 22 22 22 22 22 22 22
	• • • •	
Dermal LD50 >10000 mg/kg		
Inhalative LC50/4 h >6.82 mg/l (rat		
67-63-0 isopropyl alcohol	annangan kali kalab manahari sa persententi di dente de de di dente de de de de de de	
Oral LD50 4570 mg/kg (ra		i
Dermai LD50 13400 mg/kg ((rab) ·	Į
Inhalative LC50/4 h 30 mg/l (rat)		
1330-20-7 xylene (mix)	the state of the s	
Oral LD50 8700 mg/kg (ra	at)	
Dermal LD50 2000 mg/kg (rt		
Inhalative LC50/4 h 6350 mg/l (rat)		
Information on toxicological effect		
Skin effects:	No irritant effect.	ı
Eye effects:	Irritating effect.	!
Sensitization:	No sensitizing effects known.	i
	1	
Carcinogenic categories	- Consess	
IARC (International Agency for Re	Search on Cancer)	3
108-88-3 Toluene	1	
13463-67-7 titanium dioxide		
67-63-0, isopropyl alcohol		3
1330-20-7 xylene (mix)		3
NTP (National Toxicology Program	m)	
None of the ingredients is listed.		
2 Ecological information Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil:	Hazardous for water, do not empty into drains. The product is degradable after prolonged exposure to natural v No further relevant information available.	veathering processes.
Aquatic toxicity: Persistence and degradability:	The product is degradable after prolonged exposure to natural v	veathering processes.
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations	The product is degradable after prolonged exposure to natural v No further relevant information available. No further relevant information available.	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not he Recommendation:	The product is degradable after prolonged exposure to natural v No further relevant information available. No further relevant information available. No further relevant information available. It is tate, and federal regulations. Do not puncture, incinerate, or cornect or cut empty containers with electric or gas torches.	
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Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not in Recommendation: 4 Transport information UN-Number DOT DOT ADR Transport hazard class(es): Class	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. It state, and federal regulations. Do not puncture, incinerate, or cornect or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 N/A Aerosols, flammable 1950 Aerosols.	
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Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not it Recommendation: 4 Transport information UN-Number DOT DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user:	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. It state, and federal regulations. Do not puncture, incinerate, or conteat or cut empty containers with electric or gas torches. Completely empty cans should be recycled. UN1950	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not it Recommendation: 4 Transport information UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number:	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. I, state, and federal regulations. Do not puncture, incinerate, or conheat or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 N/A Aerosols, flammable 1950 Aerosols [2.1] No Warning: Gases F-D.S-U	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not in Recommendation: 4 Transport information UN-Number DOT DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user:	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. I, state, and federal regulations. Do not puncture, incinerate, or cornect or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 IN/A Aerosols, flammable 1950 Aerosols I2.1 INO Warning: Gases F-D,S-U On passenger aircraft/rail: 75 kg	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not it Recommendation: 4 Transport information UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number: Quantity Ilmitations	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. I, state, and federal regulations. Do not puncture, incinerate, or conheat or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 N/A Aerosols, flammable 1950 Aerosols [2.1] No Warning: Gases F-D.S-U	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not in Recommendation: 4 Transport information UN-Number DOT DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number: Quantity Ilmitations	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. It is tate, and federal regulations. Do not puncture, incinerate, or conteat or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 IN/A Aerosols, flammable 1950 Aerosols I2.1 INO Warning: Gases F-D,S-U On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not it Recommendation: 4 Transport information UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number: Quantity Ilmitations	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. It state, and federal regulations. Do not puncture, incinerate, or conteat or cut empty containers with electric or gas torches. [Completely empty cans should be recycled.] [UN1950	
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Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not in Recommendation: 4 Transport information UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number: Quantity Ilmitations ADR Excepted quantities (EQ) IMDG	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. It is tate, and federal regulations. Do not puncture, incinerate, or conteat or cut empty containers with electric or gas torches. ICompletely empty cans should be recycled. IUN1950 N/A Aerosols, flammable 1950 Aerosols I 2.1 No Warning: Gases F-D,S-U On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity	
Aquatic toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: 3 Disposal considerations Dispose of in accordance with local be disposed of responsibly. Do not in Recommendation: 4 Transport information UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS Number: Quantity Ilmitations ADR Excepted quantities (EQ) IMDG Limited quantities (LQ)	The product is degradable after prolonged exposure to natural vino further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. It state, and federal regulations. Do not puncture, incinerate, or conteat or cut empty containers with electric or gas torches. [Completely empty cans should be recycled.] [UN1950	
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T	rade name: BENDERS D	ESIGNER BEIGE PAINT, AEROSOL	I grant of the state of the sta
*	67-63-0 isopropyl alco 1330-20-7 xylene (mix) CPSC: California Proposition (13463-67-7 titanium dio: 100-41-4 ethyl benze: California Proposition (known to cause develo toxicity: CANADIAN ENVIRONM PROTECTION ACT: WHMIS Symbols for Ca	This product complies with 16 CFR 1303 and does not schemicals known to cause cancer: ide 5 chemicals product complies with 16 CFR 1303 and does not seem to be cause cancer: 108-88-3 Toluene All hazardous ingredients for this product appear on to the cause cancer:	
•			
. [_	EPA:		
	67-64-1 Acetone		
	108-88-3 Toluene		
_	1330-20-7 xylene (mix)		

16 Other information

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief on the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Material should be used within a reasonable period of time as materials change with age. The customer and or user, upon receipt of material, accept full responsibility for said product.

**** END OF SAFETY DATA SHEET ****

100.000ppm

BENDER'S WHOLESALE DIST., INC. 2911 MOOSE TRAIL - P.O.BOX 1407 ELKHART, INDIANA 46515

SAFETY DATA SHEET MATERIAL

24-HOUR D.O.T. PHONE#: (800) 424-9300

(574) 264-4409 24-HOUR D.O.T. PHOBENDER'S CHASSIS BROWN SPRAY PAINT (AEROSOL) PHONE#: TRADE NAME:

BENDER I.D. NUMBERS: IGOE032

DOCUMENT NUMBER: P000032A DATE OF ISSUE: 08/20/10 1. HAZARDOUS INGREDIENTS C.A.S. PERCENT **EXPOSURE** CODES NO. LIMITS 13463-67-7 5.0 15.0000mg/m3 2 Titanium dioxide (as dust) 10.0000mg/m3 1 < 20.00 WA =Toluene (1) 108-88-3 2 *

,	(1)	100-00-0	`	ACC =	300 ppm	2	
		MAX.	DU		500 ppm min max peak	2 2	
•					50.000ppm	1	
Anahawa	(4.)	07 04 1		15.0	1 000 000	18	
. Anetone	(1)	67-64-1	<	15.0	1,000.000ppm 500.000ppm	2 *	
.rbon black		1333-86-4	<	5.0	3.5000mg/m3	2 #	
					3.5000 mg/m	1	
Varnish Makers & Painter Naptha		8032-32-4	<	10.00	N	2	
Xvlene	(1)	1330-20-7	<	10.0	300.000ppm 100.000ppm	1 2	
Aylene	(1)	1330-20-1	`	10.0	100.000ppm	1	
Hexane ·		110-54-3	<	25.0	500.000ppm	2 *	
					50.000ppm		
Ethyl Benzene	(1)	100-41-4	<	5.0	100.000ppm	1 2	
_					100.000ppm	1 2	
Propane		74-98-6	<	25.0	1,000.000ppm	2	
Isobutane		75-28-5	<	20.00	2,500.000ppm	1 2	
Toohnogiic		15-20-5	`	20.00	N N	<u>د</u> 1	
SC-100 Solvent		64742-95-6	<	5.0	50.000ppm	2	
				-		-	

(1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

BOILING POINT: VISCOSITY: NA NA pH: ND

Faster than ether

VAPOR PRESSURE: Aerosol cans 40 p.s.i. @ 70 F. VAPOR DENSITY (AIR=1): Heavier than air APPEARANCE AND ODOR: Brown liquid - solvent odor SOLUBILITY IN WATER: ND EVAPORATION RATE: Fa PERCENT VOLATILE: 82.0 SPECIFIC GRAVITY: 0.7131

V.O.C.: 4.95 LBS./GAL. HMIS CODES: Health: 2 Flammability: 4 Equipment: B Reactivity: 0

PAGE 2

MSDS: P000032A

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Aerosol - 10 F. (T.O.C.)

FLAMMABLE LIMITS:

LEL:

D.O.T. CATEGORY: -AEROPANT

Consumer Commodity ORM-D

Paints and related products with flash point 100 F. or lower - aerosolized

EXTINGUISHING MEDIA:

Water, carbon dioxide, dry chemical or foam.

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material. Water spray may be ineffective. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable. Temperatures above 120 degrees farenheight may cause bursting of aerosol cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

See section four, Conditions To Avoid and Hazardous Decomposition Products. Exposure to heat may cause bursing of aerosol can. Do not store above 120 degrees F. Overheated aerosol containers adjacent to fire could explode due to pressure buildup.

4. REACTIVITY DATA

STABILITY:

Stable.

INCOMPATABILITY (Materials to avoid): Strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

May not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide and various hydrocarbons.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions in all sections. Remove all sources of ignition, avoid breathing vapors, ventilate area. Wipe up with inert material and place in metal container (D.O.T. approved if it is to be shipped).

RECOMMENDED DISPOSAL:

Dispose of in accordance with local, state and current federal EPA regulations.

PAGE 3

MSDS: P000032A

5 ENVIRONMENTAL INFORMATION

CONTINUED

Do not incinerate aerosol can. Do not place in home compactor. Do not puncture.

ENVIRONMENTAL DATA:

ND

6. SUGGESTED FIRST AID

EYE CONTACT: 7

Flush eyes with plenty of water for at least 15 minutes and call a physician.

SKIN CONTACT:

Wash with soap and plenty of water. Remove contaminated clothing. Wash contaminated clothing prior to reuse.

INHALATION:

Move affected person to fresh air at once. Restore or support breathing as necessary. If breathing difficulties persist, call a physician.

IF SWALLOWED:

Ingestion of aerosol can is unlikely. If ingestion of contents should occur, DO NOT induce vomiting. Call a physician and/or transport to emergency facility immediately. If spontaneous vomiting should occur, lower victim's head between their knees to prevent aspiration into the lungs.

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and flame. Use only in areas adequately ventilated to remove vapors and prevent vapor buildup. Avoid prolonged breathing of vapors. Avoid breathing of overspray (airborne paint, vinyl or oil particles) during spray application. Avoid contact with eyes and skin.

DO NOT place aerosol can in home compactor. Exposure to temperatures above 120 degrees F. can cause bursting of aerosol can.

PROTECTIVE EQUIPMENT: Wear safety goggles if mist might get into eyes. Impervious gloves (P.V.A.) are recommended to prevent skin contact. Use an operating spray booth if at all possible. If not, provide other local exhaust ventilation to prevent vapor buildup. If adequate ventilation can not be maintained, a self-contained breathing apparatus, appropriate for the needs of your application, should be used.

8. HEALTH HAZARD DATA

EYE CONTACT:

Liquid irritating to eyes. Can cause tearing, redness and blurred vision.

SKIN CONTACT:

May defat skin causing dryness, cracking and irritation possibly leading to

MSDS: P000032A

8. HEALTH HAZARD DATA

CONTINUED

dermatitis.

INHALATION:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconciousness, and even asphyxiation.

IF SWALLOWED:

Ingestion can cause gastrointestional irritation. Symptoms include nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. Aspiration of material must be avoided. Health studies have shown that many petroleum hydrocarbons pose potential human health risk which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimalized. Reports of animal test studies have shown possible effects to the liver, kidneys and lungs as well as embryo/fetoxic effects. The revelance of these effects to man is unknown.

HEALTH DATA:

Deliberate inhalation of concentrated toluene vapors may cause brain disorders, lung damage and death. Animal studies have shown that inhalation of high levels of toluene produced cardiac sensitation. Such sensitation may cause fatal changes in heart rhythms. Rats exposed to 1400 ppm or 1200 ppm of toluene for 14 hours per day for 4 to 5 weeks (respectively) exhibited high frequency hearing defects. There is no evidence that industrially accepted levels of toluene vapors (E.G. the TLV) have produced cardiac effects in humans.

When acetone was absorbed systematically, it caused cataracts in laboratory animals. 10 to 20 ml has been taken orally without ill effects. This chemical is subject to the reporting requiements of section 313 of SARA Title III.

The presence (up to 50%) of N-Hexane in the solvent mixture for hexane represents a distinct hazard of producing peripheral polyneuropathy, a progressive disorder of the nervous system, which with sufficient high exposure has the potential of becoming irreversible. This disorder has been observed in individuals exposed repeatedly to high vapor concentrations (1000-1500 ppm) of N-Hexane over a period of several months. Exposure to this product should be controlled to keep the maximum level below 100 ppm which will result in N-Hexane exposure of 50 ppm or less, as recommended by ACGIH (1985-86).

ADDITIONAL HEALTH DATA:

NIOSH has identified numerous substances that should be treated as potential occupational carcinogens even thoung OSHA may not have itentified them as such. In determining their carcinogenicity, NIOSH uses the OSHA classifaction outlined in 29 CFR 1990.103.

NIOSH has not identified thresholds for carcinogens that will protect 100% of the population. NIOSH usually recommends that occupational exposures to carcinogens be limited to the lowest feasible concentration. To ensure maximum protection from carcinogens through the use of respiratory protection, only the most reliable and protective respirators are recommended. These include (1) a self-contained breathing apparatus (SCBA) that has a full facepiecs and is operated in a positive pressure mode, or (2) a supplied-air respirator that

8. HEALTH HAZARD DATA

CONTINUED

has a full facepiece and is operated in a pressure-demand or other positivepressure mode in combination with an auxiliary SCBA operated in a pressuredemand or other positive pressure mode.

NIOSH considers "Carbon Black" to be a material consisting of more than 80% elemental carbon in form of near-spherical colloidal particles and coalesced particle aggregates of colloidal size that is obtained by the partial combustion or thermal decomposition of hydrocarbons. The NIOSH REL (10-hour TWA) for carbon black is 3.5 mg/m3. Polycyclic aromatic hydrocarbons (PAHs), particulate polycyclic organic material (PPOM), and polynuclear aromatic hydrocarbons (PNAs) are terms frequently used to describe various petroleum-based substances that NIOSH considers to be potential occupational carcinogens. Since ome of these aromatic hydrocarbons may be formed during the manufacture of carbon black (and become absorbed on the carbon black), the NIOSH: REL (10-hour TWA) for carbon black in the presence of PAHs is also 0.1 mg PAHs/m3 (measure as the cyclohexane-extractable fraction). The OSHA PEL (8-hour TWA) for carbon black is 3.5 mg/m3.

ABBREVIATIONS:

- 1 ACGIH Threshhold Limit Values
- 2 Federal OSHA Permissible Exposure Limit
- Chemical Manufacturer Recommended Guidlines
- N None Established
- ACC Acceptable Ceiling Concentration
- ACM Maximum Acceptable Ceiling Concentration
- C Centigrade
- F Fahrenheit
- * See "Health Data"
 # See "Additional Health Data"
- S Potential Critical Absorption by cutaneous route
 - Potential Critical Entrance by Respiration

- H Hours
- MAX. DUR. Maximum Duration
- Min. Minutes
- mg/m3 Miligrams per; square meter
- NA Not Applicable
- ND Not Determined
- ppm Parts Per Million
- P.S.I. Pounds per Square Inch
- WA Weighted Average per 8 hour shift V.O.C. - Volatile Organic Compound
- R Values for Inhalation only
- RCRA Resource Conservation &

Recovery Act

ie information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves the use of the product in combination with any other product or any other process is the responsibility of the user.

PAGE

BENDER'S WHOLESALE DIST., INC. 2911 MOOSE TRAIL - P.O.BOX 1407 ELKHART, INDIANA 46515

SAFETY DATA SHEET MATERIAL

24-HOUR D.O.T. PHONE#: (800) 424-9300 (574) 264-4409 24-HOUR D.O.T. PR BENDER'S SUNLINE GREY SPRAY PAINT (AEROSOL) PHONE#:

TRADE NAME:

BENDER I.D. NUMBERS: IG0E041

DATE OF ISSUE: 08/20/10 DOCUMENT NUMBER-**P000041A**

DOCUMENT NUMBER: POOCOGIA					
1. HAZARDOUS INGREDIENTS		C.A.S. NO.	PERCENT	EXPOSURE LIMITS	CODES
		74-98-6	20.6	1,000 000ppm	2
Propane		74-90-0	20.0	2,500.000ppm	2 1
Hexane		110-54-3	19.0	500.000ppm mqq000.00	2 *
		106-97-8	12,10	50.000ррш И	1 2
n-Butane		108-31-0	12.10	800,000ppm	1
cetone	(1)	67-64-1	11.7	1,000.000ppm	2 *
30 001.5			40 50 514	500.000ppm	1 2 *
Toluene	(1)	108-88-3	10.30 WA ACC =	300 ppm	
			ACM =	500 ppm	2 2 2
		MAX.		in max peak	2
				50.000ppm	1_
				'	1 S
Varnish Makers & Painter Naptha		8032-32-4	4.50	N 300.000pm	2
		13463-67-7	3.9	15:0000mg/m3	2
Titanium dioxide (as dust)		19409-01-1	0.0	10.0000mg/m3	ī
Xylene	(1)	1330-20-7	3.5	100.000ppm 100.000ppm	2 1
Hydrocarbon resin		68240-01-7	< 15.00	' N	2
•				. IN	_

(1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

HMIS CODES:

VISCOSITY: NA -44 TO 286 F BOILING POINT: Aerosol cans 40 p.s.i. @ 70 F. pH: nd

Flammability: 4

VAPOR PRESSURE: EVAPORATION RATE: Faster than ether

VAPOR DENSITY (AIR=1): Heavier than air APPEARANCE AND ODOR: Grey liquid, solvent o PERCENT VOLATILE: 85.0 Grey liquid, solvent odor

SPECIFIC GRAVITY: 0.7141 SOLUBILITY IN WATER: Slight4.9 LBS./GAL. V.O.C.:

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Aerosol - 4 F. (T.O.C.)

Health: 2

.90 UEL: 12.80 LEL: FLAMMABLE LIMITS:

Consumer Commodity ORM-D D.O.T. CATEGORY: -AEROPANT Paints and related products with flash point 100 F. or lower - aerosolized X

Equipment: B

Reactivity: 0

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical or foam. PAGE MSDS: P000041A CONTINUED 3. FIRE AND EXPLOSION HAZARD DATA SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material. Water spray may be ineffective. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable. Temperatures above 120 degrees farenheight may cause bursting of aerosol cans. UNUSUAL FIRE AND EXPLOSION HAZARDS: See section four, Conditions To Avoid and Hazardous Decomposition Products. Exposure to heat may cause bursing of aerosol can. Do not store above 120 degrees F. Overheated aerosol containers adjacent to fire could explode due to pressure buildup. 4. REACTIVITY DATA STABILITY: Stable. INCOMPATABILITY (Materials to avoid): Strong oxidizing agents. HAZARDOUS POLYMERIZATION: May not occur. HAZARDOUS DECOMPOSITION PRODUCTS: May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide and various hydrocarbons. 5. ENVIRONMENTAL INFORMATION SPILL RESPONSE: Observe precautions in all sections. Remove all sources of ignition, avoid breathing vapors, ventilate area. Wipe up with inert material and place in metal.container (D.O.T. approved if it is to be shipped). RECOMMENDED DISPOSAL: Dispose of in accordance with local, state and current federal EPA regulations. Do not incinerate aerosol can. Do not place in home compactor. Do not puncture. ENVIRONMENTAL DATA: ND 6. SUGGESTED FIRST AID EYE CONTACT:

Flush eyes with plenty of water for at least 15 minutes and call a physician.

PAGÈ

MSDS: P000041A

6. SUGGESTED FIRST AID

CONTINUED

SKIN CONTACT:

Wash with soap and plenty of water. Remove contaminated clothing. Wash

contaminated clothing prior to reuse.

INHALATION:

Move affected person to fresh air at once. Restore or support breathing as

necessary. If breathing difficulties persist, call a physician.

IF SWALLOWED:

Ingestion of aerosol can is unlikely. If ingestion of contents should occur, DO NOT induce vomiting. Call a physician and/or transport to emergency facility immediately. If spontaneous vomiting should occur, lower victim's head between

their knees to prevent aspiration into the lungs.

PRECAUTIONARY INFORMATION

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8. HEALTH HAZARD DATA

EYE CONTACT:

Liquid irritating to eyes. Can cause tearing, redness and blurred vision.

SKIN CONTACT:

May defat skin bausing dryness, cracking and irritation possibly leading to

dermatitis.

INHALATION:

Excessive inhalation of vapors can cause masal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconciousness, and

even asphyxiation.

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MSDS: P000041A

8. HEALTH HAZARD DATA

CONTINUED

Health studies have shown that many petroleum hydrocarbons pose potential human health risk which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimalized. Reports of animal test studies have shown possible effects to the liver, kidneys and lungs as well as embryo/fetoxic effects. The revelance of these effects to man is unknown.

HEALTH DATA:

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Deliberate inhalation of concentrated toluene vapors may cause brain disorders, lung damage and death. Animal studies have shown that inhalation of high levels of toluene produced cardiac sensitation. Such sensitation may cause fatal changes in heart rhythms. Rats exposed to 1400 ppm or 1200 ppm of toluene for 14 hours per day for 4 to 5 weeks (respectively) exhibited high frequency hearing defects. There is no evidence that industrially accepted levels of toluene vapors (E.G. the TLV) have produced cardiac effects in

ADDITIONAL HEALTH DATA:

ABBREVIATIONS:

- 1 ACGIH Threshhold Limit Values
- 2 Federal OSHA Permissible Exposure Limit
- 3 Chemical Manufacturer Recommended Guidlines
- N None Established
- ACC Acceptable Ceiling Concentration
- ACM Maximum Acceptable Ceiling Concentration
- C Centigrade
- F Fahrenheit
- * See "Health Data"
- # See "Additional Health Data"
 - Potential Critical Absorption by cutaneous route
 - Potential Critical Entrance by Respiration

- H Hours
- MAX. DUR. Maximum Duration
- Min. Minutes
- mg/m3 Miligrams per square meter
- NA Not Applicable
- ND Not Determined
- ppm Parts Per Million
- P.S.I. Pounds per Square Inch
- WA Weighted Average per 8 hour shift V.O.C. Volatile Organic Compound
- R Values for Inhalation only
- RCRA Resource Conservation &
 - Recovery Act

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves the use of the product in combination with any other product or any other process is the responsibility of the user.

Printing date 21 08.2015

Revised On: 21 03,2015

5 - 10% 10% - 5% 1 - 5%

1-5%

1 - 5% 1 5%

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Trade name:

Bender Gray Zinc Based Primer, Aerosol

IG0E049 Article number:

Sector of Use

Industrial uses: Uses of substances as such or in preparations at industrial sites Consumer uses: Private households / general public / consumers

Product category

Bender's Wholesale Dist., Inc. Manufacturer/Supplier:

P.O. Box 1407 Elkhart, IN 46515 phone: (574) 264-4409

(800) 424-9300

Emergency telephone number:

SECTION 2: Hazards Identification

Classification of the substance or mixture

Flam. Aerosol 1 Extremely flammable aerosol.

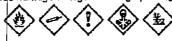
Contains gas under pressure; may explode if heated. Press. Gas

Causes skin irritation. Skin Irrit. 2 Eye Init. 2A Causes serious eye initation. Suspected of damaging fertility or the unborn child. Repr. 2

STOT SE 3 May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure. STOT RE 2

Hazard pictograms



Signal word

Hazard statements

Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin Irritation.

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Use only outdoors or in a well ventilated area.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray.

F INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. F INGESTED: Rinse mouth with water. Do not induce vomiting.

F ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 122° F (50° C). Store locked up in a well ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

SECTION 3: Composition/information on ingredients

Description: Dangerous components: Mixture of substances listed below with nonhazardous additions.

67-64-1	Acetone	
74-93-6	Propane	1
106-97-7	N-Butane	
108-88-3	Toluene	Y_0
1330-20-7	Xylene (mix)	
64-17-5	Ethyl Alcohol	
66402-68-4	Calcium Strontium Zinc P	hosphosilica

Titanium Dioxide 110-19-0: Isobutyl Acetate 64742-89-8 -- VM & P Naphtha -

64742-47-8 Mineral Spirits ___Etnyl Benzene .100-41-4

SECTION #4: First aid measures

Methanol

After skin contact

Supply, fresh air: consult doctor in case of complaints

«After inhalation: Generally the product does not imitate the skin:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor,

After eye contact: ...

Revised On: 21 08:2015

SECTION 4: First aid measures (Co		
Most important symptoms and effect After swallowing:		
Indication of any immediate medical attention needed:	No further relevant information available.	
SECTION 5: Firefighting measures	The second secon	-
Extinguishing agents: Special Hazards:	CO2, powder or water spray. Fight larger fires with water spray. Can form explosive gas-air mixtures.	
Protective equipment for firefighters:		
SECTION 6: Accidental release mea	sures	
Personal precautions, protective		
equipment and emergency procedures	Use respiratory protective device against the effects of fumes/dust/aerosol	
Environmental precautions: Methods and material for	Do not allow product to reach sewage system or any water course.	
containment and cleaning up:	Dispose of contaminated material as waste according to section 13.	
SECTION 7: Handling and storage		
Precautions for safe handling	Use only in well ventilated areas. Pressurized container: protect from sunlight and do not expose to temperature.	oraturos overendina
Firelexplosion protection:	50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.	
Storage Requirements:	Keep away from sources of heat and direct sunlight. Do not warehouse in su Store locked up.	bfreezing conditions.
SECTION 8: Exposure controls/pers	onal protection	
ingredients with limit values that req		
67-64-1 Acetone PEL (USA) Long-term value: 2400 mg/m ³ ,	1000 opm	
REL (USA) Long-term value: 590 mg/m³, 2	250 ppm	
TLV (USA) Short-term value: (1782) NIC-1 Long-term value: (1188) NIC-5 BEI	187 mg/m², (750) NIC-500 ppm 94 mg/m², (500) NIC-250 ppm	
74-98-6 Propane	-	
PEL (USA) Long-term value: 1800 mg/m ³ , REL (USA) Long -term value: 1800 mg/m ³ ,	1000 ppm	
TLV (USA) refer to Appendix F	, 1000 ppm	
108-88-3 Toluene		•
Ceiling limit value: 300; 500" pr	om	:
 10-min peak per 8-hr shift REL (USA) Short-term value: 560 mg/m³. 	150 ppm	;
Long -term value; 375 mg/m³/	100 ppm	
TLV (USA) Long-term value: 75 mg/m³, 20) ppm	;
106-97-8 N-Butane	000	
REL (USA) Long-term value: 1900 mg/m ³ TLV (USA) Short-term value: 2370 mg/m ³	1000 ppm	
1330-20-7 Xylene (mix)		
PEL (USA) Long-lerm value: 435 mg/m³. REL (USA) Short-term value: 655 mg/m³.	150 ppm	
Long-term value: 435 mg/m³, TLV (USA) Short-term value: 651 mg/m³,	100 ppm .	, i
Long -term value: 434 mg/m³,	100 ppm	
BEI 64-17-5 Ethyl Alcohol	مدالت المستعدد	
PEL (USA) Long-term value: 1900 mg/m ³		
REL (USA) Long-term value: 1900 mg/m ³ TLV (USA) Short-term value: 1880 mg/m ³	, 1000 ppm	
110-19-0 Isobutyl Acetate,		
PEL (USA) Long-term value: 700 mg/m² REL (USA) Long-term value: 700 mg/m²	150,ppm - 150,ppm - 150, 150 - 15	المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة الم المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة المرابعة الم
TLV (USA) Long-term value: 713 mg/m³	150 ppm	
100-41-4 Ethyl Benzene		
EL (USA) Long-term value: 20.ppm	and the state of the state of the state of the state of the state of the state of the state of the state of the	
	100 ppm	ا چې انده ده چې پېښې د د اندې د چې اندې او کې دی د سرمدې پېښې د د اندې د د اندې د اندې د او کې دی د سر پې
Long-termivalue: 435/mg/m	100 ppm	شده ها در است در این می این می این است این این است. میران می این است این این این این این این این این این این
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۶ -	SECTION 8: Exposure	controleloersonal	nrotection (Contrived)		
	TLV (USA) Long-term value			}	
	BEI	. 01 11191111120 PP		•	
	67-56-1 Methanol		-	,	.*
		: 260 mg/m², 200 r : 325 mg/m³, 250 r : 260 mg/m³, 200 r	gpm		
	Skin TLV (USA) Short-term value Long-term value Skin; BEI	e: 328 mg/m², 250 : 262 mg/m³, 200 p	ppm pm'		
	Ingredients with biologi	ical limit values:			
	BEI (USA) 50 mg/L Medium: urine Time: end of shi	ift one (nonspecific)		:	
	BEI (USA) 0.02 mg/L Medium: blood Time: prior to la Parameter: Tolu	st shift of wookwee lene	k	:	:
	0.03 mg/L Medium: urine Time: end of sh Parameter: Tolu	iene		1	,
	1330-20-7 Xylene (mix	iift Cresol with hydrolys ()	sis (background)		î
	BEI (USA) 1.5 g/g creatinin Medium: urine Time: end of sh				
`		thythippuric acids			
	BEI (USA) 0.7 g/g creatinin Medium: urine Time: end of sh	ie lift at end of workw	eek and phenyiglyoxylic acid (nonspecific, semi-quantitative)		1
	Medium: end-ex Time: not critica Parameter: Ethy		juantitative)		:
	67-56-1 Methanol				,
	BEI (USA) 15 mg/L Medium: urine Time: end of sh	ift thanel (background	popspecific)]	:
	Hyglenic protection:	Immediately rem	ove all soiled clothes and contaminated clothing. Wash hands after use. The eyes and skin. Do not eat or drink while working.		: :
	Breathing equipment:	A respirator is ge and/or long term overexposure co	nerally not necessary when using this product outdoors or in large open areas overexposure conditions exist, a charcoal filter respirator should be worn. If you nditions exist, please consult an authority on chemical hygiene.	. In cases where short ou suspect - •	
•	Hand protection:	Protective gloves	The glove material must be impermeable and resistant to the substance.	المعامد مضمضها أأمطانهم ومطاعمته	, =^
ulas g¥er ≃	Eye protection:	Tightly sealed go	ggles	المحادثة من المختلف المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم المستخدم والمحادث المحادثة المستخدم	
مر. مدر داه	SECTION 9: Physical	and chomical or	Market and the second of the s	And the same of th	ili ing
	Appearance: Odor:	Ae An	erosol omatic:	,	-
پن سم	Odor threshold:	والأساع فعمرية وعرضاهن	of determined.		٠,
	pH-value: Melting point/Melting r Boiling point/Boiling re	ange: - e Ur	it determined. idetermined 36°(F; (+110°, C)		
	ا المراجع الم		The state of the s	(Continued on page 4).	
-t		TOTAL PROPERTY AND ADDRESS OF THE PARTY AND AD	The state of the s		
(Jing			The state of the s		

Profing date 21 08 2015

nnung da	te 21'08 2015					
SË	TION 9: Physical and chemical	properties (Commund)				
Fla: Fla:	sh Point: mmability (solid, gas):	-2° F (-19° C) Extremely flammable. Not determined.				
Aut	o igniting: ager of explosion:	Product is not self-igniting. In use, may form flammable/explosive vapor-air mixture.				
Upj	per Explosion Limit:	1/7 Vol % 10.9 Vol %				
Sol	tition coefficient: n-octonal/water: ubility: cosity:	Not determined.			•	
VÕ Mili	C content: C content (less exempt solvents): R Value:	4.59 lb/gl / 550.4 g/l 50.1% 1.20 17.5%				
	ids Content:	a hairings.			1	
SE	CTION 10: Stability and reacti	vity	' 	~,	'	
	activity: nditions to avoid:	Stable at normal temperatures. Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatu	res,		:	
Ch	emical Stability:	Not fully evaluated. No dangerous reactions known.			٠	
Po: Inc	ssibility of hazardous reactions: ompatible materials:	No further relevant information available.				
Ha	zardous decomposition:	No dangerous decomposition products known.				
- : ~e=	CTION 11: Toxicological infor	mation	مه مه -سد د سم			
	-97-8 N-Butane]	
Inh	alative LD50/4 h 658 mg/l (rat) 163-67-7 Titanium Dioxide					
Ora Dei	al LD50 >20000 mg/kg (rat) mal LD50 >10000 mg/kg (rbt) alative LD50/4 h :6.82 mg/l (rat)					
	30-20-7 Xylene (mix)				!	
De: Inh	rmal LD50 2000 mg/kg (rab) alative LD50/4 h 6350 mg/l (rat)					
Ora	17-5 Ethyl Alcohol al LO50 7060 mg/kg (rat) alative LO50/4 h 20000 mg/l (rat)				: .	
Ora						
On	0-41-4 Ethyl Benzene al LD50 3500 mg/kg (ret) mal LD50 17800 mg/l (rbt)	,				
	-56-1 Methanol al LD50 ·13000 mg/kg (rat)	<u> </u>				
	al LD50 ·13000 mg/kg (rat) ormation on toxicological effects: in effects:	No data available, No irritant effect.			:	
Ēy	e effects: nsitization:	Irritating effect. No sensitizing effects known.				
Ca	rcinogenic categories	cob on Cancer				
	RC (International Agency for Resea 18-88-3 Toluene	[cit off cancer]	<u> </u>	·	. 3	
13	330-20-7 Xylene (mix)	Control of the Contro			3 .	i i
	4-17-5 Ethyl Alcohol 3463-67-7 Titanium Dioxide	_ ,			2B	; 1
	3463-67-7 Titanium Dioxide 00-41-4 Ethyl Benzene			والمراجعة المراجعة	. ₹2 <u>B</u> :	:
NT	P (National Toxicity Program)			· 		
No	one of the ingredients is listed.		===			7
د سیرسد ای	ECTION 12: Ecological informa	ition		- 2450/		٠.
Ā	uatic toxicity:	Hazardous to water do not emply into drains. The product is degradable after prolonged exposure to natural weathering pro	cesses.	د. حسد	م معدر برومانيد او م	ر د رسولدر في
Bi	ersistence and degradability: oaccumulative potential: obility in soil:	No further relevant information available. No further relevant information available.				<u>.</u> .
E	notovical affects:	No further relevant information available.		3 5		•]••••
		ations	- T-2	77. 34 E	,=,-3 7 5	£1/
	ECTION, 13: Disposal consider	and federal regulations. Do not nuncture incinerate or compact. Partially em	pty can:	must l	je	-راحد. -راحدود
			e Green	imited An	tiace 51	4 ·
R	ecommendation	Completely empty cans should be recycled:	4 Minnin	200 P	25.20	بستيت

Printing date 21 08 7015

Revised On. 21.08.2015

	and the same of th	
SECTION 14: Transport informati	on	
UN-Number	UN1950	
DOT	Consumer Commodity ORM-D	
901	Aerosols, flammable	
ADR	1950 Aerosols	
Transport hazard class(es):	1500 110103010	
Class:	2,1	
	No.	
Marine pollutant:	Warning Gases	
Special precautions for user:		
EMS number:	F-D, S-U	
Quantity limitations:	On passenger aircraft/rail 75 kg	
•	On cargo aircraft only: 150 kg	
ADR	•	
Excepted quantities (EQ):	Gode: E0	
• • •	Not permitted as Excepted Quantity	
11100		
IMDG	i i	
Limited quantities (LQ):	<u>1</u>	
Excepted quantities (EQ):	Gode: E0	
	Not permitted as Excepted Quantity	
Packaging Group:	†	
UN "Model Regulation":	UN1950, Aerosols, 2.1	
a mean ingelesen s		
SECTION 15: Regulatory informa	ition	
SARA Section 355 (extremely hazarde		
None of the ingredients in this product is	slisted.	
SARA Section 313 (Specific toxic ch		
108-88-3 Toluene		
1330-20-7 Xylene (mix)	<u> </u>	
100-41-4 Ethyl Benzene		
	CFR 1303 and does not contain more than 90 ppm of lead.	
California Proposition 65 chemicals l	(nown to cause cancer:	
13463-67-7 Titanium Dioxide		*
	· ·	•
100-41-4 Ethyl Benzene		
California Brancaiting 66 chamicals I	nown to cause developmental toxicity: 108-88-3 Toluene	
California:Etoposition es chefficais i	67-56-1 Methanol	
	07400-1 Mighigue	
CANADIAN ENVIRONMENTAL		
PROTECTION ACT:	All hazardous ingredients for this product appear on the Canadian Domestic Sub-	stance List.
THO LONDIN ACT.	The state of the product appear at the option of the optio	
ÉPA:	· -]	
67-64-1 Acelone		.1
	a.	· ·
108-88-3 <u>Toluene</u>		l} ·
1330-20-7 Xylene (mix)		11.
110-19-0 Isobutyl Acetate		D.
100-41-4 Ethyl Benzene	•	. <u>D</u> .
190 TIT WILLIAM		. , ,
		• -
SECTION 16: Other information	The state of the s	
Coron 10. Outer Information	The state of the s	~ ~~~
Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agre	ement concerning the
	International Carriage of Dangerous Goods by Road	_
	LO50: Lethal dosa, 50 percent	
	Flam. Gas 1; Flammable gases, Hazard Category 1 Flam. Aerosol 1, Flammable acrosols, Hazard Category 1	
_	Flam, Llq 2: Flammable liquids, Hazard Category 2	
	Skin Imit. 2: Skin corresion/imitation, Hazard Category 2	7.
	STOT SE 3: Specific target organ toxicity - Single exposure. Hazard Category 3	
The first of the first of the first of	Asp. Tox. 1: Aspiration hazard, Hazard Category 1	7, 1, 2 - 1
يستنسنه تدبية ينسيهوه بمعايض فنتوه بيها بجابها بمستعدد بيها أسيية وإستيدين	Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	إبارة المساوس والمام والده المستجيما
entre de la company amb destantant de la company de la different de la company de la c	Flam. I. 2: Flam.mable figuids, Hazard Category 2 Flam. I. 12: Flam.mable figuids, Hazard Category 2 Skin Intl. 2: Skin corrosion/mitation, Hazard Category 2 Eye Intl. 2: Senous eye damage/eye Intlation, Hazard Category 2 Eye Intl. 2: Senous eye damage/eye Intlation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1 Aquatic Acute, 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
en en en en en en en en en en en en en e	The state of the s	ا ما عام ا
		فاستنها والمتاب والمتابع
والمرابعة والمرا	والإسلام والماران والمستواح والمستوا	مدامره والتياني مدجات عديهي والدرو مديده
	ANNE END OF SAFETY DATA SHEET MILE	
water than the second of the s	***** END OF SAFETY DATA SHEET *****	
المادية فالمحاول المحافظ والمادين والمحاول إلاية الراوية	للم على المراجع الم	man and reserve at the same
and a community of the	والمنافع والمراج والمراجع والمنافعة	

Postna date: 10/05/2015

Revised On:10/05/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Trade name:

Bender Gloss Black Paint, Aerosol

Article number: Sector of Use

IG0E002

Product category

Manufacturer/Supplier:

Industrial uses: Uses of substances as such or in preparations at industrial sites Gonsumer uses: Private households / general public / consumers

Plaints

Bender's Wholesale Dist., Inc.

P.O. Box 1407 Elkhart, IN 46515 phone: (574) 264-4409

(800) 424-9300 Emergency telephone number:

SECTION 2: Hazards Identification

Classification of the substance or mixture

Flam. Aerosol 1

Extremely flammable aerosol.

Press. Gas

Contains gas under pressure: may explode if heated.

Skin Irrit. 2

Causes skin irritation.

Eye Irrit. 2A

Causes serious eye irritation.

Repr. 2

Suspected of damaging fertility or the unborn child.

STOT SE 3

May cause drowsiness or dizziness.

STOT RE 2

May cause damage to organs through prolonged or repeated exposure.

Hazard pictograms

Signal word

Hazard statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated. Causes skin irritation.

Causes serious eye imitation.

Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Use only outdoors or in a well ventilated area.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

F INHALED: Remove person to fresh air and keep comfortable for breathing.

F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. F INGESTED: Rinse mouth with water. Do not induce vomiting.

F ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 122° F (50° C). Store locked up in a well ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on Ingredients

 Description 		Mixture of substances listed below with nonhazardous additions.	
Dangerous	components:	·	
67-64-1	Acetone		20 - 30%
74-98-6	Ргорапе		14 - 20%
108-88-3	Toluene		14 - 20%
106-97-8	N-Butane		10 - 15%
64742-89-8	VM & P Naptha		5 - 10%
64742-47-8	Mineral Spirits		1 - 5%
67-63-0	Isopropyl Alcohol		1 - 5%
1330-20-7	Xylene (mix)		1 - 5%

SECTION 4: First aid measures

Most important symptoms and

Indication of any immediate medical attention needed:

After inhalation: After skin contact: After eye contact: After swallowing:

effects:

Supply fresh air; consult doctor in case of complaints.

Generally the product does not imitate the skin.

Rinse opened eye for several minutes under running water. Then consult a doctor.

Rinse mouth with water. Do not induce vomiting,

Dizziness

No further relevant information available.

(Continued on page 2)

Pnoting date: 10/05/2015

Revised On: 10/05/2015

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SECTION 5: Firefighting measures
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Extinguishing agents:

Special Hazards:

Protective equipment for firefighters:

CO2, powder or water spray. Fight larger fires with water spray. Can form explosive gas-air mixtures.

Mount respiratory protective device.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Environmental precautions: Methods and material for containment and cleaning up: Use respiratory protective device against the effects of fumes/dust/aerosol. Do not allow product to reach sewage system or any water course.

Dispose of contaminated material as waste according to section 13.

SECTION 7: Handling and storage

Precautions for safe handling Fire/explosion protection:

Use only in well ventilated areas.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Storage Requirements:

keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

SECTION 8: Exposure controls/personal protection

Ingredients with limit values that require monitoring at the workplace:

67-64-1 Acetone

PEL (USA) Long-term value: 2400 mg/m³,1000 ppm REL (USA)

REL (USA) Long-term value: 590 mg/m³, 250 ppm
TLV (USA) Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm

74-98-6 Propane

PEL (USA) Long-lerm value: 1800 mg/m³, 1000 ppm REL (USA) Long -term value: 1800 mg/m³, 1000 ppm

TLV (USA) refer to Appendix F

108-88-3 Toluene

PEL (USA) Long-term value: 200 ppm Ceiling limit value: 300; 500° ppm

* 10-min peak per 8-hr shift

REL (USA) Short-term value: 560 mg/m³, 150 ppm Long -term value: 375 mg/m³, 100 ppm

TLV (USA) Long-term value: 75 mg/m3, 20 ppm

BEI

106-97-8 N-Butane

REL (USA) Long-term value: 1900 mg/m³, 800 ppm

TLV (USA) Short-term value: 2370 mg/m³, 1000 ppm

67-63-0 Isopropyl Alcohol

PEL (USA) Long-term value: 980 mg/m², 400 ppm REL (USA) Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 490 ppm

TLV (USA) Short-term value: 984 mg/m³, 400 ppm

Long-term value: 492 mg/m², 200 ppm

BE!

1330-20-7 Xylene (mix)

PEL (USA) Long-term value: 435 mg/m³, 100 ppm REL (USA) Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm Short-term value: 651 mg/m³, 150 ppm Long -term value: 434 mg/m³, 100 ppm

TLV (USA)

Ingredients with biological limit values:

67-64-1 Acetone

BEI (USA) 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

108-88-3 Toluene

BEI (USA) 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

Printing date:10/05/2015

Revised On: 10:05/2015

Ingredients with biological limit values: (Continued)

108-88-3 Toluene (Continued)

BEI (USA) 0.03 mg/L

Medium: urine Time: end of shift Parameter: Toluene

0.03 mg/g creatinine Medium: urine Time: end of shift

67-63-0 Isopropyl Alcohol

BEI (USA) 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

1330-20-7 Xylene (mix)

BEI (USA) 1.5 g/g creatinine Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

Hygienic protection:

immediately remove all soiled clothes and contaminated clothing.

Wash hands after use.

Avoid contact with eyes and skin. Do not eat or drink while working.

Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short

.. ≎

and/or long term overexposure conditions exist, a charcoal filter respirator should be worn. If you suspect

overexposure conditions exist, please consult an authority on chemical hygiene.

Hand protection:

Protective gloves. The glove material must be impermeable and resistant to the substance.

Eye protection:

Tightly sealed goggles.

SECTION 9: Physical and chemical properties

Appearance: Odor:

Aromatic. Odor threshold: Not determined.

pH-value: Melting point/Melting range: Boiling point/Boiling range:

Not determined. Undetermined. -47°F (-44 °C)

Aerosot

Flash point:

Flammability (solid, gas):

-2°F (-19°C) Extremely flammable. Not determined.

Decomposition temperature: Auto-igniting:

Product is not selfigniting.

Danger of explosion: Lower Explosion Limit:

In use, may form flammable/explosive vapor-air mixture.

Upper Explosion Limit:

1.5 Vol % 10,9 Vol %

Vapor pressure: Relative Density:

Not determined.

Vapor density: Evaporation rate Between 0.77 and 0.85 (Water = 1.00) Not determined.

Partition coefficient: n-octonal/water Solubility:

Not applicable. Not determined. Not determined. Not determined.

Viscosity:

4.35 lb/gl / 521.2 g/l

VOC content: VOC content (less exempt solvents): MIR Value:

59.9% 1.19 18.9%

Solids Content:

SECTION 10: Stability and reactivity

Reactivity:

Stable at normal temperatures.

Conditions to avoid: Chemical Stability:

Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatures. Not fully evaluated,

Possibility of hazardous reactions:

No dangerous reactions known:

Incompatible materials: Hazardous decomposition: No further relevant information available. No dangerous decomposition products known,

Ponting date:10/05/2015

Revised On: 10/05/2015

SECTION 11: Toxicological inf	ormation
LD/LC50 values relevant for classif	
106-97-8 N-Butane	
Inhalative LC50/4 h 658 mg/l (rat)	*
67-63-0 Isopropyl Alcohol Oral LD50 4570 mg/kg (rat)	
Dermai LD50 13400 mg/kg (rai	o)
Inhalative LD50/4 h 30 mg/l (rat) 1330-20-7 Xylane (mix)	
Oral LD50 8700 mg/kg (rat)	
Dermal LD50 2000 mg/kg (rab Inhalative LD50/4 h 6350 mg/l (rat)	
imalative LD50/4 ft 6550 ftlg/f (rat)	
Information on toxicological effects:	
Skin effects: Eye effects:	No irritant effect. Irritating effect.
Sensitization:	No sensitizing effects known.
Carcinogenic categories	
IARC (International Agency for Rese	arch on Cancer)
108-88-3 Toluene	3
67-63-0 Isopropyl Alcohol	3
1330-20-7 Xylene (mix)	13
NTP (National Toxicity Program)	
None of the ingredients is listed.	
SECTION 12: Ecological inform	ation
Aquatic toxicity:	Hazardous to water, do not empty into drains.
Persistence and degradability: Bioaccumulative potential:	The product is degradable after prolonged exposure to natural weathering processes. No further relevant information available.
Mobility in soil: Ecotoxical effects:	No further relevant information available.
Other adverse effects:	No further relevant information available.
SECTION 13: Disposal consider	
Dispose of in accordance with local, sta disposed of responsibly. Do not heat of Recommendation:	ate and federal regulations. Do not puncture, incinerate or compact. Partially empty cans must be cut empty containers with electric or gas torches. Completely empty cans should be recycled.
disposed of responsibly. Do not heat of	cult empty containers with electric or gas torches.
disposed of responsibly. Do not heat of Recommendation: SECTION 14: Transport informat	cut empty containers with electric or gas torches. Completely empty cans should be recycled.
SECTION 14: Transport informat	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950
SECTION 14: Transport informat	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable
SECTION 14: Transport informat UN-Number DOT ADR	ion UN1950 Consumer Commodity ORM-D
SECTION 14: Transport informat UN-Number DOT ADR Transport hazard class(es): Class	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1
SECTION 14: Transport informat UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant:	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1
disposed of responsibly. Do not heat of Recommendation: SECTION 14: Transport informate UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number:	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U
SECTION 14: Transport informate UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user:	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg
SECTION 14: Transport informat UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations:	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (LQ):	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L
SECTION 14: Transport informate UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ):	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (LQ): Excepted quantities (EQ): Packaging Group:	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0
SECTION 14: Transport informated by the second seco	ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L
SECTION 14: Transport informate UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (LQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulaton":	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (LQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulatory informations":	completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (EQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulator": SECTION 15: Regulatory informations of the ingredients in this product in the product in	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1 ation ous: substances):
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (EQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulator": SECTION 15: Regulatory informations of the ingredients in this product in SARA Section 313 (Specific toxic of SARA Section SARA SARA Section SARA Section SARA SARA Section SARA SARA Section SARA SARA SARA SARA SARA SARA SARA SAR	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1 ation ous: substances):
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (EQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulator": SECTION 15: Regulatory informations of the ingredients in this product in SARA Section 313 (Specific toxic characters)	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1 ation ous: substances):
SECTION 14: Transport informal UN-Number DOT ADR Transport hazard class(es): Class Marine pollutant: Special precautions for user: EMS number: Quantity limitations: ADR Excepted quantities (EQ): IMDG Limited quantities (EQ): Excepted quantities (EQ): Packaging Group: UN "Model Regulator": SECTION 15: Regulatory informations of the ingredients in this product in SARA Section 313 (Specific toxic of SARA Section SARA SARA Section SARA Section SARA SARA Section SARA SARA Section SARA SARA SARA SARA SARA SARA SARA SAR	cut empty containers with electric or gas torches. Completely empty cans should be recycled. ion UN1950 Consumer Commodity ORM-D Aerosols, flammable 1950 Aerosols 2.1 No Warning Gases F-D, S-U On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L Code: E0 UN1950, Aerosols, 2.1 ation ous: substances):

Panting date:10/05/2015 Revised On:10/05/2015 This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead. California Proposition 65 chemicals known to cause cancer: 1333-86-4 Carbon Black 100-41-4 Ethyl Benzene California Proposition 65 chemicals known to cause developmental toxicity: 108-88-3 Toluene CANADIAN ENVIRONMENTAL PROTECTION ACT: All hazardous ingredients for this product appear on the Canadian Domestic Substance List. EPA: 67-64-1 Acelone 108-88-3 Toluene II 1330-20-7 Xylene (mix) II SECTION 16: Other information Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) UD50: Lethal dosc, 50 percent
Flam. Gas 1: Flammable gases. Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Flam. Lq. 2: Flammable liquids, Hazard Category 2
Flam. Lq. 2: Flammable liquids, Hazard Category 2
Eyo Irrit. 2: Skin cornosion/irritation, Hazard Category 2
Eyo Irrit. 2: Specific target organ toxicity - Single exposure, Hazard Category 3
App. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the equatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard. Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Disclaimer The information provided on this SDS is correct to the best of our knowledge, information and belief on the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Material should be used within a reasonable period of time as materials change with age. The customer and or user, upon receipt of material, accept full responsibility for said preduct.

**** END OF SAFETY DATA SHEET ****

Printing date 21 08 2015

Revised On: 21,08,2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Bender Flat Black Paint, Aerosol

Article number:

Sector of Use

Industrial uses: Uses of substances as such or in preparations at industrial sites Consumer uses: Private households / general public / consumers

Paints

Product category Manufacturer/Supplier:

Bender's Wholesale Dist.. Inc.

P.O. Box 1407 Elkhart, IN 46515 phone: (574) 264-4409 (800) 424-9300

Emergency telephone number:

SECTION 2: Hazards Identification

Classification of the substance or mixture

Flam. Aerosol 1

Extremely flammable aerosol.

Press. Gas

Contains gas under pressure; may explode if heated.

Skin Irrit. 2

Causes skin irritation.

Eye Imit. 2A

Causes serious eve irritation. Suspected of damaging fertility or the unborn child.

Repr. 2 STOT SE 3

May cause drowsiness or dizziness.

STOT RE 2

May cause damage to organs through prolonged or repeated exposure.

Hazard pictograms

Signal word

Danger

Hazard statements

Extremely flammable aerosol.

Contains gas under pressure: may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Use only outdoors or in a well ventilated area.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INGESTED: Rinse mouth with water. Do not induce vomiting.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 122° F (50° C).

Mixture of substances listed below with nonhazardous additions.

Store locked up in a well ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international

regulations.

SECTION 3: Composition/information on ingredients

Description: Dangerous components:

67-64-1 Acetone 74-98-6 Propane

106-97-8 N-Butane Calcium Carbonate 1317-65-3

108-88-3 Toluene 64742-89-8 VM & P Naptha 67472-47-8 Mineral Spirits 1330-20-7 Xylene (mix) 108-65-6 · PM Acetate

SECTION 4: First aid measures

After inhalation: After skin contact: After eye contact: After swallowing:

Most important symptoms and

effects:

Indication of any immediate medical attention needed: medical attention needed:

Supply fresh air; consult doctor in case of complaints.

Generally the product does not irritate the skin.

Rinse opened eye for several minutes under running water. Then consult a doctor. Rinse mouth with water. Do not induce vomiting.

Dizziness

No further relevant information available. No turther relevant information available.

(Continued on page 2)

25 - 35%

10 - 20%

10 - 20%

5 - 10%

5 - 10%

5 - 10%

1 - 5%

1 - 5%

1 - 5%

Printing date 21 08.2515

Revised Crr 21,08,2015

SECTION 5: Firefighting measures

Extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray.

Special Hazards: Protective equipment for firefighters: Can form explosive gas-air mixtures. Mount respiratory protective device.

SECTION 6: Accidental release measures

Personal precautions, protective

equipment and emergency

procedures Environmental precautions:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Do not allow product to reach sewage system or any water course.

Methods and material for

Dispose of contaminated material as waste according to section 13.

containment and cleaning up:

SECTION 7: Handling and storage

Precautions for safe handling Fire/explosion protection:

Use only in well ventilated areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.

Storage Requirements:

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.

SECTION 8: Exposure controls/personal protection

Ingredients with limit values that require monitoring at the workplace:

67-64-1 Acetone

PEL (USA) Long-term value: 2400 mg/m³,1000 ppm

REL (USA) Long-term value: 590 mg/m³, 250 ppm
TLV (USA) Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm

BEL

74-98-6 Propane

PEL (USA) Long-term value: 1800 mg/m³, 1000 ppm REL (USA) Long-term value: 1800 mg/m³, 1000 ppm TLV (USA) refer to Appendix F

108-88-3 Toluene

PEL (USA) Long-term value: 200 ppm

Ceiling limit value: 300: 500° ppm

* 10-min peak per 8-hr shift

REL (USA) Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

TLV (USA) Longiterm value: 75 mg/m3, 20 ppm

BEI

106-97-8 N-Butane

REL (USA) Long-term value: 1900 mg/m3, 800 ppm

TLV (USA) Short-term value: 2370 mg/m3, 1000 ppm

108-65-6 PM Acetate

WEEL(USA) Long-term value: 50 ppm

1330-20-7 Xylene (mix)

PEL (USA) Long-term value: 435 mg/m³, 100 ppm REL (USA) Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV (USA) Short-term value: 651 mg/m³, 150 ppm Long -term value: 434 mg/m³, 100 ppm

Ingredients with biological limit values:

67-64-1 Acetone

50 mg/L BEI (USA)

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

108-88-3 Toluene

BEI (USA) 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L

Medium: urine

Time: end of shift

Parameter: Toluene

(Continued on page 3)

Protong date 21 09 2015

Ingredients with biological limit values: (Continued)

108-88-3 Toluene (Continued)

0.03 mg/g creatinine Medium: urine Time: end of shift

1330-20-7 Xylene (mix)

BEI (USA) 1.5 g/g creatinine Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

Hygienic protection:

Immediately remove all soiled clothes and contaminated clothing.

Wash hands after use.

Avoid contact with eyes and skin. Do not eat or drink while working.

Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short

and/or long term pverexposure conditions exist, a charcoal filter respirator should be worn. If you suspect

overexposure conditions exist, please consult an authority on chemical hygiene.

Hand protection:

Protective gloves. The glove material must be impermeable and resistant to the substance.

Eye protection:

Tightly sealed goggles.

SECTION 9: Physical and chemical properties

Appearance:

Aerosol Aromatic.

Odor: Odor threshold:

Not determined.

pH-value:

Not determined. Undetermined.

Melting point/Melting range: Boiling point/Boiling range:

-47°F (-44 °C)

Flash point:

-2°F (-19°C)

Flammability (solid, gas):

Extremely flammable.

Decomposition temperature:

Not determined.

Auto-janitina:

Product is not selfigniting,

Danger of explosion: Lower Explosion Limit: In use, may form flammable/explosive vapor-air mixture.

Upper Explosion Limit:

10,9 Vol %

Vapor pressure:

Not determined.

Relative Density:

Between 0.77 and 0.85 (Water = 1.00)

Vapor density:

Not determined.

Evaporation rate

Not applicable. Partition coefficient: n-octonal/water: Not determined.

Solubility:

Not determined.

Viscosity:

Not determined.

VOC content:

4 25 lb/gl / 509.7 g/l

VOC content (less exempt solvents):

50.5% 0|90

MIR Value: Solids Content:

19.3%

SECTION 10: Stability and reactivity

Reactivity:

Stable at normal temperatures.

Conditions to avoid:

Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatures.

Chemical Stability:

Not fully evaluated.

Possibility of hazardous reactions:

No dangerous reactions known.

Incompatible materials:

No further relevant information available.

Hazardous decomposition:

No dangerous decomposition products known.

SECTION 11: Toxicological information

LD/LC50 values relevant for classification:

106-97-8 N-Butane

Inhalative LC50/4 h 658 mo/l (rat)

108-65-6 PM Acetate

8500 mg/kg (rat) LD50 Oral Inhalative LD50/4 h 35.7 mg/l (rat)

1330-28-7 Xylene (mix)

8700 mg/kg (rat) LD50 Oral 2000 mg/kg (rab) LD50 Dermal Inhalative LD50/4 h 6350 mg/l (rat)

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Safety data sheet according to 1907/2006/EC. Article 31

Prestong date 21 08 2015

SECTION 11: Toxicological information (Continued)

Information on toxicological effects:

Skin effects: Eye effects: Sensitization: No data available. No irritant effect. Irritating effect.

No sensitizing effects known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

108-88-3 Toluene 1330-20-7 Xylene (mix)

NTP (National Toxicity Program) None of the ingredients is listed.

SECTION 12: Ecological information

Aquatic toxicity: Persistence and degradability: Bioaccumulative potential:

Mobility in soil: **Ecotoxical effects:** Other adverse effects: Hazardous to water, do not empty into drains,

The product is degradable after prolonged exposure to natural weathering processes.

No further relevant information available. No further relevant information available.

No further relevant information available.

SECTION 13: Disposal considerations

Dispose of in accordance with local, state and federal regulations. Do not puncture, incinerate or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation:

Completely empty cans should be recycled.

SECTION 14: Transport information

UN1950 **UN-Number**

DOT

Consumer Commodity ORM-D Aerosols, flammable

ADR

Transport hazard class(es):

Class

Marine pollutant: Special precautions for user:

EMS number:

Quantity limitations:

1950 Aerosols

Warning Gases

On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg

ADR

Excepted quantities (EQ):

F-D. S-Ŭ

Νo

Not permitted as Excepted Quantity

Limited quantities (LQ): Excepted quantities (EQ):

Packaging Group:

UN "Model Regulation":

Code: E0

UN1950, Aerosols, 2.1

SECTION 15: Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product is listed.

SARA Section 313 (Specific toxic chemical listings):

108-88-3 Toluene 1330-20-7 Xylene (mix)

Packaging Group:

UN "Model Regulation":

UN1950, Aerosols, 2.1

CPSC: This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

Carbon Black 1333-86-4 100-41-4 Ethyl Benzene

California Proposition 65 chemicals known to cause developmental toxicity: 108-88-3 Toluene

CANADIAN ENVIRONMENTAL PROTECTION ACT:

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

(Continued on page 5)

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Revised On 21 08,2015

Safety data sheet according to 1907/2006/EC, Article 31

Panning date 21 08 2015

EPA:

67-64-1 108-88-3 Acetone Toluene

1330-20-7

Xylene (mix)

SECTION 16: Other information

Abbreviations and acronyms:

AOR: Accord curepton sur le transport des marchandises dangureuses par Route (European Agraement concerning the Intérnational Cornage of Dangurous Goods by Road)

EDSit: Lethal drise, 50 percent
Figin: Gau 1: Fishmable gases. Hazard Category 1
Figin: Aerosof. 1: Fishmable aerosols, Hazard Category 1
Fishm. Liq. 2: Fishmable aerosols, Hazard Category 2
Fishm. Liq. 2: Fishmable beguds, Hazard Category 2
Skin timit. 2: Serious eye dismagaleye Firihalon, Hazard Category 2
Syb timit. 2: Serious eye dismagaleye Firihalon, Hazard Category 2
SYOT SE 3: Specific target ergon toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Actual 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

***** END OF SAFETY DATA SHEET *****

Printing date 21 08 2015

Revised On: 21 08:2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Trade name:

Bender Gloss White Paint, Aerosol

Article number: Sector of Use

IG0E012 Industrial uses: Uses of substances as such or in preparations at industrial sites

Consumer uses: Private households / general public / consumers

Product category Paints Manufacturer/Supplier:

Bender's Wholesale Dist., Inc.

P.O. Box 1407 Elkhart, IN 46515 phone: (574) 264-4409 (80b) 424-9300

Emergency telephone number:

SECTION 2: Hazards identification

Classification of the substance or mixture

Flam, Aerosol 1

Extremely flammable aerosol.

Press. Gas

Contains gas under pressure: may explode if heated.

Skin Irrit. 2

Causes skin irritation.

Eye Irrit. 2A Repr. 2

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

STOT SE 3

May cause drowsiness or dizziness.

STOT RE 2

May cause damage to organs through prolonged or repeated exposure.

Hazard pictograms

Signal word

Danger

Hazard statements

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin imitation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open ilames/hot surfaces, - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Use only outdoors or in a well ventilated area. Wash hands thoroughly after handling

Wear protective gloves/protective dothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INGESTED: Rinse mouth with water. Do not induce vomiting. IF DN SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 122° F (50° C). Store locked up in a well ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

SECTION 3: Composition/information on ingredients

Description: Dangerous components: Mixture of substances listed below with nonhazardous additions.

67-64-1 Acetone 74-98-6 Propane 106-97-7 N-Butane 13463-67-7 Titanium Dioxide 108-58-3 Toluene VM & P Napilia 64742-89-6 Mineral Spirits :: 64742-47-61 1330-20-7 Xvlene (mix)

· PM Acetate

SECTION 4: First aid measures

After inhalation: After skin contact:

108-65-6

Supply fresh air; consult doctor in case of complaints.

Generally the product does not irritate the skin. After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor. Rinse mouth with water. Do not induce vomiting.

After swallowing: Most important symptoms and effects:

'Indication of any immediate medical attention needed:

Revised On: 21.08.2015

SECTION 5: Firefighting measures CO2, powder or water spray. Fight larger fires with water spray. Extinguishing agents: Can form explosive gas-air mixtures. Special Hazards: Protective equipment for firefighters: Mount respiratory protective device. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency Use respiratory protective device against the effects of fumes/dust/aerosol. procedures Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for Dispose of contaminated material as waste according to section 13. containment and cleaning up: origin arrandominada 🔆 SECTION 7: Handling and storage Use only in well ventilated areas.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material. Precautions for safe handling Fire/explosion protection: Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Storage Requirements: Store locked up. SECTION 8: Exposure controls/personal protection Ingredients with limit values that require monitoring at the workplace: 67-64-1 Acetone PEL (USA) Long-term value: 2400 mg/m³, 1000 ppm
REL (USA) Long-term value: 590 mg/m³, 250 ppm
TLV (USA) Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm BEI 74-98-6 Propane PEL (USA) Long-term value: 1800 ng/m², 1000 ppm REL (USA) Long-term value: 1800 mg/m³, 1000 ppm TLV (USA) refer to Appendix F 108-88-3 Toluene PEL (USA) Long-lerm value: 200 ppm Ceiling limit value: 300; 500* ppm * 10-min peak per 8-hr shift REL (USA) Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV (USA) Long-term value: 75 mg/m², 20 ppm BEI 106-97-8 N-Butane REL (USA) Long-term value: 1900 mg/m³, 800 ppm TLV (USA) Short-term value: 2370 mg/m², 1000 ppm 1330-20-7 Xylene (mix)
PEL (USA) Long-term value: 435 mg/m³, 100 ppm
REL (USA) Short-term value: 655 mg/m³, 150 ppm
Long-term value: 651 mg/m³, 100 ppm
TLV (USA) Short-term value: 651 mg/m³, 100 ppm Long -term value: 434 mg/m3, 100 ppm BEI PM Acetate 108-65-6 WEEL (USA) Long-term value: 50 ppm Ingredients with biological limit values: 67-64-1 Acetone BEI (USA) · 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 108-88-3 Toluene BEI (USA) | 0.02 mg/L El (USA) 10.02 mg/L Medium: blood Time: prior to last stilft of workweek Parameter. Toluene 0.03 mg/L Medium., urine. Time: end of shift Parameter. Toluene

Printing date 21 08 2015

Ingredients with biological limit values: (Continued)

105-88-3 Toluene (Continued) BEI (USA) 0.03 mg/g creatinine Medium: urine

Time: end of shift 1330-20-7 Xylene (mix) BEI (USA) 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

Immediately remove all soiled clothes and contaminated clothing. Hygienic protection:

Wash hands after use.

Avoid contact with eyes and skin.

Do not eat or drink white working.

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short Breathing equipment:

and/or long term overexposure conditions exist, a charcoal filter respirator should be worn. If you suspect

overexposure conditions exist, please consult an authority on chemical hygiene.

Protective gloves. The glove material must be impermeable and resistant to the substance. Hand protection:

Tightly sealed goggles. Eye protection:

SECTION 9: Physical and chemical properties

Appearance: Odor: Odor threshold:

Aromatic. Not determined.

Aerosol

pH-value: Melting point/Melting range; Boiling point/Boiling range; Not determined. Undetermined. -47°F (-44°C)

Flash point:

-2°F (-19 °C)

Flammability (solid, gas):

Extremely flammable.

Decomposition temperature:

Not determined.

Auto-igniting:

Product is not selfigniting.

Danger of explosion:

in use, may form flammable/explosive vapor-air mixture.

Lower Explosion Limit: Upper Explosion Limit:

1,5 Val % 10,9 Val %

Vapor pressura:

Not determined.

Relative Density:

Between 0.77 and 0.85 (Water = 1.00) Not delermined.

Vapor density: Evaporation rate

Not applicable. Partition coefficient: n-octonal/water: Not determined. Not determined.

Solubility: Viscosity:

Not determined.

VOC content:

4.22 lb/gl / 505.9 g/l

VOC content (less exempt solvents): MIR Value:

49.1% 0.90

Solids Content:

20.6%

SECTION 10: Stability and reactivity

Reactivity:

Stable at normal temperatures.

Conditions to avoid:

Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatures.

Chemical Stability: Possibility of hazardous reactions:

Not fully evaluated. ...

incompatible materials;

No dangerous reactions known.

Hazardous decomposition:

No further relevant information available. No dangerous decomposition products known

SECTION 11: Toxicological information

LD/LC50 values relevant for classification:

106-97-8 N-Butane

Inhalative LC50/4 h 658 mg/l (rat)

13463-67-7 Titanium Dioxide

Oral LD50 >20000 mg/kg (rat)
Dermal LD50 >10000 mg/kg (rab)
Initialative LD50/4 h >6.82 mg/l (rat)

(Continued on page 4):

3

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SECTION 11: Toxicological information (Continued)

LD/LC50 values relevant for classification: (Continued)

Xylene (mix) 1330-20-7

LD50 8700 mg/kg (rat) LD50 2000 mg/kg (rab) LD50/4 h 6350 mg/l (rat) Oral Dermal Inhalative

PM Acetate 108-65-6

8500 mg/kg (rat) LD50 Oral LD50/4 h 35.7 mg/l (rat) Inhalative

Information on toxicological effects:

Skin effects: Eye effects: Sensitization: No data available. No irritant effect. Imitating effect.

No sensitizing effects known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

108-88-3 Toluene

13463-67-7 Titanium Dioxide 1330-20-7 Xylene (mix)

NTP (National Toxicity Program) None of the ingredients is listed.

SECTION 12: Ecological information

Aquatic toxicity:
Persistence and degradability:
Bioaccumulative potential:
Mobility in soil:
Ecotoxical effects:

Other adverse effects:

Hazardous to water, do not empty into drains.

The product is degradable after prolonged exposure to natural weathering processes.

No further relevant information available. No further relevant information available.

No further relevant information available.

SECTION 13: Disposal considerations

Dispose of in accordance with local, state and federal regulations. Do not puncture, incinerate or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Completely empty cans should be recycled.

UN1950

2.1

No

1950 Aerosols

Warning Gases

Recommendation:

SECTION 14: Transport information

UN-Number

DOT

ADR

Transport hazard class(es): Class

Marine pollutant:

Special precautions for user: EMS number:

Quantity (imitations:

Excepted quantities (EQ):

Code: E0

F-D, S-U

Not permitted as Excepted Quantity

On passenger aircraft/rail 75 kg On cargo aircraft only: 150 kg

Consumer Commodity ORM-D Aerosols, flammable

Limited quantities (LQ):

Excepted quantities (EQ):

Code: E0 Not permitted as Excepted Quantity

Packaging Group: UN "Model Regulaton":

UN1950, Aerosols, 2.1

SECTION 15: Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product is listed.

SARA Section 313 (Specific toxic chemical listings):

108-88-3 Toluene 1330-20-7 Xylene (mix)

CPSC: This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

13463-67-7 -- Titanium Dioxide 10041-4 -- Ethyl Benzene

California Proposition 65 chemicals known to cause developmental toxicity: 108-86-3 Toluene

H

I.

Revised On: 21.03.2015

Safety data sheet according to 1907/2006/EC, Article 31

Pnntng date 21 08 2016

SECTION 15: Regulatory information (Communed)

CANADIAN ENVIRONMENTAL PROTECTION ACT:

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

EPA:

67-64-1 Acetone 108-88-3 Toluene 1330-20-7 Xylene (mix)

SECTION 16: Other information

Abbreviations and acronyms:

ADR: Accord européen sur lo transpon des marchandises dangereuses par Route (European Agraement concerning the Informational Carriage of Dangerous Goods by Road)

LD50: Lethal dose, 50 percent
Flam. Gas 1: Flanimable gases, Hazard Calegory 1
Flam. Aerosol 1: Flanimable aerosofs, Hazard Calegory 1
Flam. Liq. 2: Flammable liquids, Hazard Calegory 2
Flam. Liq. 2: Flammable liquids, Hazard Calegory 2
Skin Init. 2: Skin corresionsimibilion, Hazard Calegory 2
Skin Init. 2: Serious eye demaggleyo irritatlon, Hazard Category 2
StoT 5 E 3: Specific larget organ texticity - Single exposure, Hazard Calegory 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aqualite Active 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

END OF SAFETY DATA SHEET *****



Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name:

PB Penetrating Catalyst (Bulk)

Product Code:

128-PB, 5-PB, 55-PB

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use:

Penetrant

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address:

The Blaster Corporation 8500 Sweet Valley Drive

Valley View, Ohio 44125 - USA

Telephone Number:

T (216) 901-5800 F (216) 901-5801

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: ChemTel 800-255-3924

Date of Preparation:

Jan 13, 2023

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Flammable Liquid 4 Serious Eye Irritation 2A Carcinogenicity 2 Aspiration Hazard 1

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

Hazard Pictogram:





Signal Word:

Danger

Hazard Statement:

Combustible liquid. Causes serious eye irritation. Suspected of causing cancer. May be fatal if swallowed and enters airways.

Prevention:

Keep away from flames and hot surfaces. - No smoking. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye

protection/face protection.

Response:

If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention, If swallowed: Immediately

Trade Name: PB Penetrating Catalyst (Bulk)



Storage:

Disposal:

Conforms to OSHA HazCom 2012 & NOM-018-STPS-2000 Standards

SAFETY DATA SHEET

call a poison center/doctor. Do NOT induce vomiting.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents and container in accordance with all local,

regional, national and international regulations.

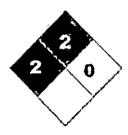
2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

1% of the mixture consists of ingredient(s) of unknown acute toxicity.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	UN#	H/F/R/*	CAS No	Wt. %
Distillates (petroleum), hydrotreated light	Not available	Not available	64742-47-8	45- 55
Solvent naphtha (petroleum), heavy				
aromatic	UN1270	Not available	64742-94-5	20-30
Distillates (petroleum), hydrotreated	-			
heavy naphthenic	Not available	Not available	64742-52-5	20-30
	UN1334/		1	
Naphthalene	UN2304	2/2/0	91-20-3	0.2-2.1
Dinonylphenol, ethoxylated, phosphated	Not available	Not available	39464-64-7	0.5- 1.5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. If easy to do, remove contact lenses, if worn. If

irritation persists, get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Trade Name: PB Penetrating Catalyst (Bulk)

^{*} Per NOM-018-STPS-2000



Conforms to OSHA HazCom 2012 & NOM-018-STPS-2000 Standards

SAFETY DATA SHEET

Inhalation:

If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion:

If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an

unconscious person. Get immediate medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye:

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

Skin:

May cause skin irritation. Symptoms may include redness, drying,

defatting and cracking of the skin.

Inhalation:

May be fatal if swallowed and enters airways. This product may be

aspirated into the lungs and cause chemical pneumonitis. May

cause stomach distress, nausea or vomiting.

Ingestion:

May cause respiratory tract irritation.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians:

Symptoms may not appear immediately.

Specific Treatments:

In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media:

Dry chemical, carbon dioxide or foam.

Unsuitable Extinguishing Media:

Water may be ineffective for extinguishing fire.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion:

May include, and are not limited to: oxides of carbon, hydrocarbons.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. Do not use a solid water stream as it may scatter and spread fire. Containers may explode when heated.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment:

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up:

Scoop up material and place in a disposal container. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Provide ventilation.

Trade Name: PB Penetrating Catalyst (Bulk)



Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling:

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/ spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. (See section 8)

General Hygiene Advice:

Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage:

Keep locked up and out of reach of children. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Store in dry, cool, well-ventilated area. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Occupational Exposure Limits			
Ingredient	OSHA-PEL	ACGIH-TLV	
Distillates (petroleum), hydrotreated light	100 ppm	200 mg/m³	
Solvent naphtha (petroleum), heavy aromatic	Not available.	Not available.	
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (mist)	5 mg/m³ (mist)	
	10 ppm;		
Naphthalene	50 mg/m ³	10 ppm	
Dinonylphenol, ethoxylated, phosphated	Not available.	Not available.	

8.2 EXPOSURE CONTROLS

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection:

Safety glasses with side-shields.

Skin Protection:

Hand Protection: Wear chemically resistant protective gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection:

A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Trade Name: PB Penetrating Catalyst (Bulk)



General Health and Safety Measures:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous / Oily.

Color: Orange.

Odor: Heavy aromatic.

Odor Threshold: Not available.

Physical State: Liquid.

Not available. pH:

Melting Point/Freezing Point: Not available.

Initial Boiling Point and Boiling Range: 177.8 °C (352 °F)

Flash Point: 65,6 °C (150 °F)

Evaporation Rate: >1 (n-butyl acetate = 1)

Flammability: Flammable.

Lower Flammability/Explosive Limit: Not available.

Upper Flammability/Explosive Limit: Not available.

Not available. Vapor Density: >1 (Air = 1)

Relative Density/Specific Gravity: 0.91 (Water = 1)

Solubility: Negligible.

Partition coefficient: n-octanol/water: Not available.

Auto-ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

Oxidizing Properties: Not available.

Explosive Properties: Not available.

VOC content: < 50%

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Vapor Pressure:

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

Trade Name: PB Penetrating Catalyst (Bulk)



10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

Heat. Incompatible materials. Sources of ignition. Excessive water.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents. Strong reducing agents. Moisture.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, hydrocarbons.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure:

Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of

the conjunctiva.

Skin:

May cause skin irritation. Symptoms may include redness,

drying, defatting and cracking of the skin.

Ingestion:

May be fatal if swallowed and enters airways. This product may be

aspirated into the lungs and cause chemical pneumonitis. May

cause stomach distress, nausea or vomiting.

Inhalation:

May cause respiratory tract irritation.

Acute Toxicity:

Ingredient	_IDLH	LC50	LD50
Distillates (petroleum),		Inhalation	Oral >5000 mg/kg, rat;
hydrotreated light	Not available.	>5.2 mg/L 4h, rat	Dermal >2000 mg/kg, rabbit
Solvent naphtha		<u> </u>	
(petroleum), heavy		Inhalation	Oral >5000 mg/kg, rat;
aromatic	Not available.	>5.28 mg/L 4h, rat	Dermal >2000 mg/kg, rabbit
Distillates (petroleum),			
hydrotreated heavy		Inhalation	Oral >5000 mg/kg, rat;
naphthenic	Not available.	>5.0 mg/L 4h, rat	Dermal >5000 mg/kg, rabbit
			Oral 490 mg/kg, rat;
1			Dermal >2500 mg/kg, rat;
Naphthalene	250 ppm	Not available.	Dermal >20 g/kg, rabbit
Dinonylphenol,			1
ethoxylated, phosphated	Not available.	Not <u>available.</u>	Not available.

Calc	ulated overall Chemical Acute Toxicit	y Values
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Not available.	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit



Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Distillates (petroleum), hydrotreated light	Not listed.
Solvent naphtha (petroleum), heavy aromatic	Not listed.
Distillates (petroleum), hydrotreated heavy naphthenic	Not listed.
Naphthalene	G-A4, I-2B, N-2, CP65
Dinonylphenol, ethoxylated, phosphated	Not listed.

^{*} See Section 15 for more information.

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation:

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation:

Causes serious eye irritation.

Based on available data, the classification criteria are not met.

Skin Sensitization:

Based on available data, the classification criteria are not met.

STOT-Single Exposure:

Based on available data, the classification criteria are not met.

Chronic Health Effects:

Carcinogenicity:

Possible carcinogen.

Germ Cell Mutagenicity:

Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Developmental: Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure:

Based on available data, the classification criteria are not met.

Aspiration Hazard:

May be fatal if swallowed and enters airways.

Other Information:

Not available.

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity:

May cause long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation:

Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

Trade Name: PB Penetrating Catalyst (Bulk)



Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method:

This material must be disposed of in accordance with all

local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized

wherever possible.

Other disposal recommendations:

Handle empty containers with care because residual

vapours are flammable.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER

DOT NA 1993 NOM-004-SCT2-1994

Not regulated.

14.2 UN PROPER SHIPPING NAME

DOT

NOM-004-SCT2-1994

Combustible liquid, n.o.s. (Petroleum distillate)

Not applicable.

14.3 TRANSPORT HAZARD CLASS (ES)

DOT

NOM-004-SCT2-1994

Not applicable.

14.4 PACKING GROUP

DOT

NOM-004-SCT2-1994

Not applicable.

14.5 ENVIRONMENTAL HAZARDS

Not available,

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

110. 000

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200)

HazCom 2012

Mexico: SDS prepared pursuant to NOM-018-STPS-2000.



	CADA TI	fle III			
SARA Title III					
Ingredient	Section 302 (EHS)	Section 304	CERCLA		
	TPQ (lbs.)	EHS RQ (lbs.)	RQ (lbs.)	Section 313	
Distillates (petroleum),	_		·=-		
hydrotreated light	Not listed.	Not listed.	Not listed.	Not listed.	
Solvent naphtha (petroleum),			<u> </u>		
heavy aromatic	Not listed.	Not listed.	Not listed.	Not listed.	
Distillates (petroleum),				-	
hydrotreated heavy					
naphthenic	Not listed.	Not listed.	Not listed.	Not listed.	
Naphthalene	Not listed.	Not listed.	100	313	
Dinonylphenol, ethoxylated,					
phosphated	Not listed.	Not listed.	Not listed.	Not listed.	

State Regulations

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

Global Inventories:

Ingredient	USA
	TSCA
Distillates (petroleum), hydrotreated light	Yes.
Solvent naphtha (petroleum), heavy aromatic	Yes.
Distillates (petroleum), hydrotreated heavy naphthenic	Yes.
Naphthalene	Yes.
Dinonylphenol, ethoxylated, phosphated	Yes.

	NFPA-National Fire Protection Association:		
Health:	2		
Fire:	2		
Reactivity:	0		

HMIS-Hazardous Materials Identification System:			
Health:	2*		
Fire:	2		
Physical Hazard:	0		

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen. A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

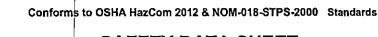
A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.





2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

- 3 The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N)

National Toxicology Program.

- 1 Known to be carcinogens.
- 2 Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Date of Preparation:

Jan, 13, 2023

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

End of Safety Data Sheet

Trade Name: PB Penetrating Catalyst (Bulk)

Page 10 of 10

This document is not intended for general distribution.

It can be used as the basis for a general distribution document if appropriate changes are made to the identification section.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BERKEBILE 2+2 GUM CUTTER B-101 -

Product Code: 2902002

MANUFACTURER'S NAME: Berkebile Oil Company ADDRESS 1216 Red Brant Road

Somerset, PA 15501 PO Box 715

Fax Email

814-443-2873 info@berkebileoil.com

EMERGENCY PHONE

: CHEMTREC 800-424-9300

INFORMATION PHONE : 814-443-1656

Product Use: CLEANING PRODUCT FOR AUTOMOTIVE USES

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Flammable aerosol

Gas under pressure

Dissolved gas

Skin Corrosion/Irritation

Eye Damage/Irritation

Carcinogenicity Aspiration hazard

2B 2







SIGNAL WORD:

Danger

Hazard Statements

Extremely flammable aerosol

Contains gas under pressure; may explode if heated

Toxic if swallowed

May be fatal if swallowed and enters airways

Causes mild skin irritation

Causes eve irritation

Suspected of causing cancer

Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces - No smoking

Do not spray on an open flame or other igntion source

Pressurized container - Do not pierce or burn, even after use

Wash hands thoroughly after handling

Do not eat, drink or smoke when using this product

Use personal protective equipment as required

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth, Do NOT induce vomiting

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing

SDS for: 2902002

Page 1 of 5

IF exposed or concerned: Get medical advice/attention If skin irritation occurs: Get medical advice/attention If eye irritation persists: Get medical advice/attention

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F Dispose of contents/container to comply with all local, state, and federal regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Percent
ACETONE	67-64-1	52.30
TOLUENE	108-88-3	19.10
XYLENE, MIXED ISOMERS	1330-20-7	15.60
CARBON DIOXIDE	124-38-9	5.00
METHANOL	67-56-1	4.70
ETHYLBENZENE	100-41-4	3.30

4. FIRST AID MEASURES

Get medical attention.

INHALATION: Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breating has stopped.

EYE CONTACT: Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

INGESTION: Not a likely route of exposure.

Most important symptoms/effects, acute and delayed: Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed: None known.

5. FIRE FIGHTING MEASURES

Suitable and unsuitable extinguising media: Foam, Alcohol foam, CO2, Dry chemical, Water fog. Water spray may be ineffective.

Specific hazards arising from the chemical: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fume's

Special equipment and precautions for fire-fighters: Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. Wear goggles and use self-contained breathing apparatus. If water is used, fog nozzles are preferred.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

SDS for: 2902002

Methods and materials for containment and cleaning up: Clean up with absorbent material and place in closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

Conditions for safe storage, including any incompatibilities: Store and use in cool, dry, well-ventilated areas. Do not store above 120 F.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name / CAS No.	05	HA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
ACETONE 67-64-1		TWA 1000 ppm	TLV-TWA 500 ppm (NIC 200 ppm) TLV-STEL 750 ppm (NIC 500 ppm)	Onioi Exposure Entits
TOLUENE 108-88-3	CEIL	: 200 ppm, 8 HOUR : 300 ppm <: 500 ppm, 10 minute	TWA: 20 ppm 8 hour	
XYLENE, MIXED ISOMERS 1330-20-7	PEL:	100 ppm	TLV: 100 PPM STEL: 150 ppm, 15 minutes	
CARBON DIOXIDE 124-38-9	5000	ppm TWA, 8 hours	5000 ppm TWA; , 8 hours; 30000 ppm STEL, 15 minutes	5000 ppm NIOSH TWA, 10 hours; 30000 ppm NIOSH STEL, 15 minutes
METHANOL 67-56-1	PEL	200 ppm	TWA: 200 ppm; STEL: 250 ppm	NIOSH: REL: 200 ppm: STEL: 250 ppm;
ETHYLBENZENE 100-41-4	TWA	: 100 ppm, 8 hour	TWA: 100 ppm, 8 hour STEL: 125 ppm, 8 hour	

Appropriate engineering controls: Ventilation should be sufficient to prevent inhalation of any vapors. General dilution and/or local exhoust ventilation in volume to keep PEL/TLV of most hazardous ingredient below acceptable limit and lel below stated limit.

Individual protection measures:

Respiratory protection: None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination or particles and vapor. In confined areas, use an approved air line respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Protective gloves: None under normal use. Use solvent-resistant for prolonged or repeated contact.

Eye protection: None under normal use. However, use of safety glasses with splah guards or full face shield should be used if indicated.

Other protective clothing or equipment: None under normal use. However, use of solvent- resitant aprons or other clothing is recommended. Eye washes and safety showers in the workplace are recommended. SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

SDS for: 2902002

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aerosol product

Vapor Pressure: Not determined

Vapor Density: Heavier than air

Density: 0.826290541

Freezing point: Not determined

Boiling point: 0°C

Evaporation rate: Slower than ether

Explosive Limits: Not applicable

Autoignition temperature: Not determined

Viscosity: Not determined

Odor: Solvent

Odor threshold: Not determined

pH: Not applicable

Melting point: Not determined

Solubility: Not determined

Flash point: Not determined

Flammability: Level 3 Aerosol

Partition coefficient Not determined

(n-octanol/water):

Decomposition temperature: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable under normal storage and handling conditions.

Possibility of hazardous reactions: None known.

Incompatible materials:

Acids, Bases, Strong oxidizing agents

Hazardous decomposition products:

Carbon dioxide, carbon monoxide, smoke, fumes, and other products of incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Long-term toxicological studies have not been conducted for this product.

12. ECOLOGICAL INFORMATION

Long-term ecological studies have not been conducted for this product.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Before attempting clean up, refer to other sections of this document for hazard cautionary information.

14. TRANSPORT INFORMATION

By land: DOT Proper Shipping Name: None required per 49 CFR 173.306(i) for products that conform to the Limited Quantity provisions. Commodity shipping description: Cleaning Compound, NOI

By water: DOT & IMDG Proper Shipping Name: UN1950, Aerosols, 2.1, LTD QTY

By air: DOT & IATA Proper Shipping Name: UN1950, Aerosols, flammable, 2.1, LTD QTY (packing instruction Y203

applies)

15. REGULATORY INFORMATION

All ingredients are either listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

SDS for: 2902002

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Revision 0

Date Prepared: 4/17/2015 Date revised: 2015-04-17

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. BECAUSE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY FOR ITS USE.

SDS for: 2902002



ALPHATHANE 5160

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Trade Name (as labeled):

Alphathane 5160

Synonyms:

N/A

CAS No:

Mixture

1.2 Product Use:

Commercial Sealant

1.3 Company Name:

Alpha Systems LLC

Company Address:

5120 Beck Dr

Company Address Cont:

Elkhart IN 46516

Business Phone:

(800) 462-4698

Website:

1.4 Emergency Telephone Number:

www.alphallc.us 24 HR Emergency Contact: CHEMTREC 800 424-9300

Date of Current Revision:

During normal business hours: 574-295-5206

Date of Last Revision:

November 7, 2018

New

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a paste that comes in various colors.

Health Hazards: This product may cause eye irritation and skin sensitization. Contains a component reported as a reproductive

hazard.

Flammability Hazards: This product is non-flammable.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

None





Signal Word:

EU and GHS Symbols:

2.1 EU Labeling and Classification:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 12/72/2008/EC and subsequent Directives.

Danger!

Components Contributing to Classification:

All components

2.2 Label Elements:

GHS Hazard Classifications:

Hazard Statements:

Prevention Statements:

Eve Irritation Category 2A

Skin Sensitization Category 1

Reproductive Hazard Category 1B

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H360: May damage fertility or the unborn child.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P261: Avoid breathing vapor/ spray.

P264: Wash contaminated skin thoroughly after handling.

P272: Contaminated work clothing must not be allowed out of the

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

Alpha Systems LLC

ALPHATHANE 5160

Response Statements:

P302+P352: If on skin: Wash with plenty of water.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P308+P313: If exposed or concerned: Get medical advice/

P321: Specific treatment (see medical advice on this label).
P333+P313: If skin irritation or rash occurs: Get medical advice/

P337+P313: If eye irritation persists: Get medical advice/ attention. P362+P364: Take off contaminated clothing and wash it before

reuse.

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations.

None applicable

Storage Statements:

Disposal Statements:

2.3 Other hazards:

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

WT%	CAS No.	EINECS No.
10-30%	Proprietary	Proprietary
10-30%	1317-65-3	215-279-6
1-5%	13463-67-7	236-675-5
1-5%	Proprietary	Proprietary
<1%	Proprietary	Proprietary
<1%	Proprietary	Proprietary
<1%	7631-86-9	231545-4
1-10%	14808-60-7	238-878-4
	10-30% 10-30% 1-5% 	10-30% Proprietary 10-30% 1317-65-3 1-5% 13463-67-7 1-5% Proprietary <1% Proprietary <1% Proprietary <1% 7631-86-9

Remaining ingredients are non-hazardous or less than 1% in concentration (or less than 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Chemical concentrations and / or identities have been withheld as trade secret.

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

Skin Contact:

Inhalation:

Ingestion:

Medical Conditions Generally Aggravated by Exposure:

4.2 Symptoms and Effects Both Acute and Delayed:

4.3 Recommendations to Physicians:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

medical attention if irritation develops and persists.

If breathing becomes difficult, remove victim to fresh air. If

necessary, use artificial respiration to support vital functions. Seek medical attention.

If product is swallowed, call physician or poison center if you feel unwell. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Pre-existing skin or eye problems may be aggravated by prolonged contact.

This product may cause eye irritation and skin sensitization. Contains a component reported as a reproductive hazard.

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

5.2 Unusual Fire and Explosion Hazards: Explosive Sensitivity to Mechanical Impact:

Explosive Sensitivity to Static Discharge:

5.3 Special Fire-Fighting Procedures:

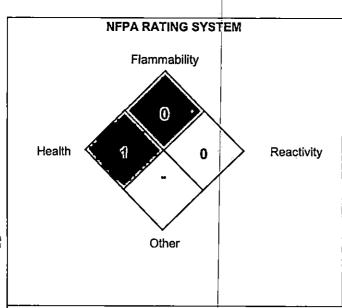
No No

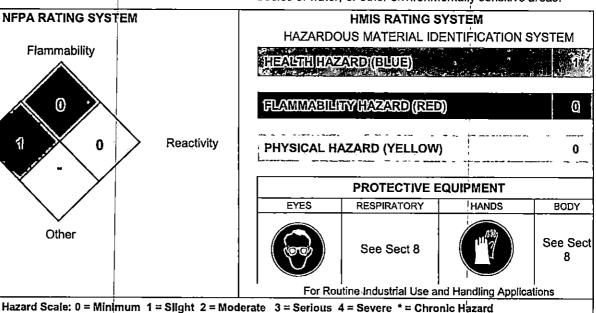
Water Spray: Yes

Foam: Yes Halon: Yes Carbon Dioxide: Yes Dry Chemical: Yes

Other: Any "C" Class

- incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.





SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

Large Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- · Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material.
- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep away from incompatible materials.

7.3 Specific Uses:

Various uses.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	ACGIH
Proprietary Polymer	Proprietary	500 ppm 1800 mg/m ³	50 ppm
Limestone	1817-65-3	5 mg/m³ (respirable)	Not Listed
Titanium Dioxide	13463-67-7	10 mg/m³	15 mg/m³
Chrystalline Silica	14808-60-7	0.025 mg/m ³	0.05 mg/m ³

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are Maintained.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Eye Protection:

Hand Protection:

Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Safety glasses or goggles are recommended.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Chemical resistant gloves are recommended to prevent skin

contact.
If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada,

Australian

Standards, or relevant Japanese Standards

Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or

where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

Body Protection:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Paste which comes in various colors

Odor: Characteristic

Odor Threshold: No data available

pH: No data available

Alpha Systems LLC

ALPHATHANE 5160

Melting/Freezing Point: No data available

Boiling Point: No data available Flash Point: No data available Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: Not applicable Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available Specific Gravity: No data available Solubility in Water: No data available Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data 9.2 Other Information:

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

See the other subsections of this section for further details.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

Will not occur.

No data available

10.4 Conditions to Avoid:

10.5 Incompatible Substances:

No specific material or group of materials is likely to react with the

product to produce a hazardous situation.

10.6 Hazardous Decomposition Products:

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the

following substances: Harmful gases or vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

No data available for this product.

Ingredients within this product are found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be cancer-causing

Suspected Cancer Agent: agents by these agencies.

Titanium Dioxide CAS# 13463-67-7 Crystalline Silica CAS# 14808-60-7

These chemicals are encapsulated within the overall product and

are not anticipated to be inhalation hazards.

Irritancy:

This product may cause eye irritation.

Sensitization to the Product:

This product is expected to cause skin sensitization.

Germ Cell Mutagenicity:

This product does not contain ingredients that are suspected to be

a germ cell mutagenic.

Reproductive Toxicity:

This product does contain a human reproductive toxicant.

Specific Target Organ Toxicity – Single Exposure:

Data not sufficient for classification.

Data not sufficient for classification.

Specific Target Organ Toxicity – Repeated Exposure:

Data not sufficient for classification.

Aspiration Hazard:

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for this product.

12.2 Persistence and Degradability:

No specific data available on this product.

12.3 Bioaccumulative Potential:

No specific data available on this product.

12.4 Mobility in Soil:

No specific data available on this product.

12.5 Results of PBT and vPvB Assessment:

No specific data available on this product.

12.6 Other Adverse Effects:

No data available

Alpha Systems LLC

ALPHATHANE 5160

12.7 Water Endangerment Class:

At present, there are no ecotoxicological assessments for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU

Member States and Japan.

Not determined

13.2 EU Waste Code: No

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations (BULK):

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

None

Proper Shipping Name:

None

Hazard Class Number and Description:

Not Regulated

Packing Group:

None

DOT Label(s) Required:

None

North American Emergency Response Guidebook

None

Number:

14.2 Environmental Hazards:

Marine Pollutant:

The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

None

14.3 Special Precaution for User:

14.4 International Air Transport Association Shipping

Information (IATA):

This product is not considered as dangerous goods.

14.5 International Maritime Organization Shipping

Information (IMO):

This product is not considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health; No; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

WARNING! This product can expose you to Titanium Dioxide and Crystalline Silica, which is known to the State of California to be a to cause cancer. For more information, go to WWW.P65Warning.ca.gov.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is classified per WHMI\$ Hazardous Product Regulations.

15.3 European Economic Community Information:

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MiTI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed \(\)
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By: Date of Printing: Chris Eigbrett

November 7, 2018

MSDS to GHS Compliance www.MSDStoGHS.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Alpha Systems LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Alpha Systems LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



SAFETY DATA SHEET

Revision Date 30-Apr-2021

Version 4

1. IDENTIFICATION

Product identifier

Product Name

AUTO MAGIC WASH AND WAX CONCENTRATE

Other means of identification

Product Code

56, 56-5, 56-55, 56A

Recommended use of the chemical and restrictions on use

Recommended Use

Automotive Care Product. Dilution Required. Follow Technical Data Sheet for Dilution

Instructions. For professional use only.

Uses advised against

Uses other than recommended use.

Details of the supplier of the safety data sheet

Manufacturer Address

ITW Evercoat

A division of Illinois Tool Works Inc.

6600 Cornell Road

Cincinnati, OH 45242 USA

513-489-7600

24-hour emergency phone number

CHEMTREC: 1-800-424-9300

INTERNATIONAL: 1-703-527-3887

E-mail address: Info@automagic.com

May Also Be Distributed by:

ITW Permatex Canada 101-2360 Bristol Circle

Oakville, ON Canada L6H 6M5

Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910,1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2

Label elements

Emergency Overview

Signal word Warning

Causes skin irritation Causes serious eye irritation Suspected of causing cancer





56, 56-5, 56-55, 56A - AUTO MAGIC WASH AND WAX CONCENTRATE

Appearance Pink Physical state Liquid Odor Chern

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Benzenesulfonic acid, (C10-16)	68584-22-5	5 - 10
Cocoamide DEA	68603-42-9	1 - 5
Sodium Hydroxide	1310-73-2	1 - 5
ETHANOL, 2,2'-IMINOBIS-	111-42-2	0.1 - 1

4. FIRST AID MEASURES

Description of first aid measures

General advice

If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact

Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Inhalation

Immediate medical attention is not required. If symptoms persist, call a physician, Move to

fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Call a physician. Do NOT induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms

See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak, Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See section 12 for additional

ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dam up. Use personal protective equipment as required. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary

measures against static discharges.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use with local exhaust ventilation. All equipment used when handling the product must be

grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use

personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place.

Keep away from heat. Keep in properly labeled containers.

Incompatible materials

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
ETHANOL, 2,2'-IMINOBIS-	TWA: 1 mg/m³ inhalable fraction	(vacated) TWA: 3 ppm	TWA: 3 ppm
111-42-2	and vapor	(vacated) TWA: 15 mg/m ³	TWA: 15 mg/m ³
	S*		

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC;gloves.

Respiratory protection

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

appropriate.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Appearance

Pink

Odor Odor threshold

No information available

Property

Values

Remarks • Method

DН

Melting point / freezing point

Boiling point / boiling range

8

No information available
No information available

96 °C / 204.8 °F Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available Flammability Limit in Air Upper flammability limit: No information available Lower flammability limit: No information available No information available Vapor pressure No information available Vapor density No information available Relative density No information available Water solubility Solubility(ies) Completely soluble 0.45 Partition coefficient No information available Autoignition temperature No information available Hyphen No information available Kinematic viscosity Dynamic viscosity No information available No information available **Explosive properties** No information available Oxidizing properties Other Information_ Softening point No information available 0%

Molecular weight **VOC** content

Density **Bulk density**

SADT (self-accelerating decomposition temperature) No information available

1.02

No information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

May cause irritation of respiratory tract.

Eye contact

Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact

May cause skin irritation and/or dermatitis.

Ingestion

Ingestion may cause irritation to mucous membranes.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50

Benzenesulfonic acid, (C10-16) 68584-22-5	= 775 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Cocoamide DEA 68603-42-9	> 5000 mg/kg (Rat)	> 2 g/kg (Rabbit)	
Sodium Hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
ETHANOL, 2,2'-IMINOBIS- 111-42-2	= 780 mg/kg (Rat)	= 11.9 mL/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

 Carcinogenicity
 The table below indicates whether each agency has listed any ingredient as a carcinogen.

 Chemical name
 ACGIH
 IARC
 NTP
 OSHA

 Cocoamide DEA
 Group 2B
 X

 68603-42-9
 ETHANOL, 2,2'-IMINOBIS A3
 Group 2B
 X

 111-42-2
 X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Target organ effects

Eyes, Respiratory system, Skin,

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

5567 mg/kg

ATEmix (dermal)

13087 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical name	Partition coefficient
Benzenesulfonic acid, (C10-16)	2
68584-22-5	1
ETHANOL, 2,2'-IMINOBIS-	-2.18
111-42-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

Dispose of contents/container in accordance with local, regional, national, and international

regulations as applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Sodium Hydroxide	Toxic
1310-73-2	Corrosive

14. TRANSPORT INFORMATION

Note:

This information is not intended to convey all specific regulatory information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

DOT

Proper shipping name

Not regulated

Proper shipping name

Not regulated

Proper shipping name

Not regulated

Complies

15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL

Complies **EINECS/ELINCS** Not determined

ENCS IECSC

Not determined Complies Complies

KECL PICCS AICS

Not determined Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard
Chronic Health Hazard
Fire hazard
Sudden release of pressure hazard
No
Reactive Hazard
No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	X !

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ
ETHANOL, 2,2'-IMINOBIS-	100 lb	•	RQ 100 lb final RQ
111-42-2			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Cocoamide DEA 68603-42-9	Carcinogen
Ethand 64-17-5	Carcinogen Developmental
ETHANOL, 2,2'-MINOBIS- 111-42-2	Carcinogen
Methanol 67-56-1	Developmental
Sulfuric Acid 7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dodecylbenzenesulphonic Acid 27176-87-0	X	X	X
Sodium Hydroxide 1310-73-2	X	X	, X
Ethanol 64-17-5	X	Х	X
ETHANOL, 2,2'-IMINOBIS- 111-42-2	X	Х	X
Benzaldehyde 100-52-7	X	X	X
3-lodo-2-propynyl butylcarbamate 55406-53-6	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

56, 56-5, 56-55, 56A - AUTO MAGIC WASH AND WAX CONCENTRATE

Revision Date 30-Apr-2021

NFPA HMIS Health hazards 1 Health hazards 1*

Flammability 1

Instability 0

Flammability 1

Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

Revision Date

30-Apr-2021

Disclaimer

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End of Safety Data Sheet

SAFETY DATA SHEET

Section 1. Identification

Product Identifier:

RENEW

Other Means of Identification: Cleaner / Descaler

Product Type:

Liquid

Recommended Uses and:

Acid replacement

Restrictions on use:

Do not use with chlorates, nitrates, hypochlorites or alkaline materials. Do not mix directly

with dehydrating agents such as acetic anhydride or concentrated sulfuric acid.

Supplier's Details:

Anderson Chemical Company 325 South Davis Avenues

Litchfield, MN 55355

Tel: 320-693-2347 Fax: 320-693-8238 www.accomn.com

Emergency Telephone:

CHEMTREC, U.S.: 1-800-424-9300

<^{∧L}umber

Section 2. Hazards Identification

OSHA/HCS Status:

This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the:

CORROSIVE TO METALS - Category 1

Substance or mixture

ACUTE TOXICITY - Category 4

SKIN CORROSION/IRRITATION - Category 1C

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

REPRODUCTIVE TOXICITY - Category 1B

GHS Label Elements

Hazard pictograms:



Signal Word:

Danger

Hazard Statements:

May be corrosive to metals.

Harmful if swallowed

Causes severe skin burns and serious eye damage

May damage fertility or the unborn child (route of exposure: oral)

Precautionary Statements

Prevention:

Keep only in original container. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts or mists. Wear protective gloves, clothing and eye or face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response:

Absorb spillage to prevent material damage. IF SWALLOWED: Call a POISON CENTER

or doctor/physician if you feel unwell. Rinse Mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

IF exposed or concerned: Get medical advice/attention.

Storage:

Store in corrosive resistant containers such as fiberglass, polyethylene, polypropylene or

containers with a resistant inner liner. Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards Not Otherwise:

None Known

Classified

Section 3. Composition/Information on Ingredients

|bstance/mixture:

Mixture

Chemical Name	%	CAS Number
Organic acid salt	Proprietary	- '
Proprietary ingredient 2	Proprietary	-
Proprietary ingredient 3	Proprietary	- !

The chemical identity and exact percentage of the composition has been withheld as it is a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

Eye Contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact:

Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Ingestion:

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

Most Important Symptons/Effects, Acute and Delayed

Potential Acute Health Effects

Eye Contact:

Causes serious eye damage.

Inhalation:

Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Skin Contact:

Causes severe skin burns.

Ingestion:

Harmful if swallowed. Irritating to mouth, throat and stomach.

May damage fertility or the unborn child.

Over Exposure Signs/Symptoms

Eye Contact:

Adverse symptoms may include the following:

Pain or irritation

Watering Redness

Inhalation: **Skin Contact:** No known significant effects or critical hazards. Adverse symptoms may include the following:

Pain or irritation

Redness

Ingestion:

Harmful if swallowed. Irritating to mouth, throat and stomach

May damage fertility or the unborn child

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician:

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

Specific Treatments:

No specific treatment

Protection of First Aiders:

No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing:

Use an extinguishing agent suitable for the surrounding fire.

media

Unsuitable extinguishing: None known

media

Specific Hazards Arising: from the chemical

Heating above 110°C results in an exothermic decomposition with release of CO₂ gas

and potentially hydrofluoric acid.

/Hazardous thermal: decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides hydroflubric acid metalloid fluorides

hydrogen cyanide hydrogen gas

Special protective actions:

No special measures are required.

for fire-fighters

Special protective: equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency:

Personnel

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning Up

Spill:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatornaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for Safe Handling

Protective Measures:

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly

closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on General: occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for Safe: Storage, including any Incompatibilities Store below 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/ Personal Protection

Control Parameters

Occupational Exposure:

None

Limits

Appropriate Engineering:

Controls

Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Environmental Exposure:

Controls

Emissions from ventilation or work process equipment should be checked to ensure they

comply with the requirements of environmental protection legislation.

lividual Protection Measures

Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory Protection:

Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

<u>Appearance</u>

Physical State:

Liquid. [Clear with some sediment]

Color:

Colorless to Amber

Odor:

:Ha

Mild acrid odor

Odor Threshold:

Not available

<1 typical [25g APW in 30g DI Water]

Melting/Freezing Point:

<-30°C

Boiling Point/Range: Flash Point:

100°C (212°F) >93.3°C (>200°F)

Evaporation Rate:

>1 (Butyl acetate = 1)

Flammability (solid, gas):

Not available

Lower and Upper Explosive: Not available

(flammable) Limits

Vapor Pressure:

<0.013kPa (<0.1mmHg) [room temperature]

Vapor Density:

>1 [Air \(\dagger 1 \)]

Iative Density:

1.301-1.381

lubility:

Easily soluble in the following materials: water

Partition Coefficient:

Not available

n-octanol/water

Auto-Ignition Temperature:

Not available Decomposition Temperature: Not available

Viscosity:

Not available

Section 10. Stability and Reactivity

Reactivity:

No spedific test data related to reactivity available for this product or its ingredients

Chemical Stability:

This product is stable up to 95°C (203°F)

Possibility of Hazardous:

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid:

Do not heat above 110°C as this will result in an exothermic decomposition with rapid

release of CO₂ gas and potentially hydrofluoric acid.

Incompatible Materials:

Reactive or incompatible with the following materials: oxidizing materials, aluminum and zinc. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials (eg. Aqua ammonia) will generate heat and may

product noxious gas. Do not mix directly with dehydrating agents such as acetic

anhydride or concentrated sulfuric acid. High concentrations of APW will react vigorously with carbonate scales which may carry vapor and so care must be taken to avoid

inhalation.

azardous Decomposition:

Under normal conditions of storage and use, hazardous decomposition products

oducts

should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
MP-125	LD50 Oral	Rat	798.1 mg/kg	-

Irritation/Corrosion

Corrosive to the skin (OECD 404)

Sensitization

There is no data available

Carcinogenicity

No components are listed as carcinogens by IARC, ACGIH, OSHA or NTP above the threshold of 0.1%

Specific Target Organ Toxicity (single exposure)

There is no data available

Specific Target Organ Toxicity (repeated exposure)

There is no data available

Aspiration Hazard

There is no data available

Information on the likely:

Dermal contact. Eye contact. Inhalation. Ingestion.

routes of exposure

Potential Acute Health Effects

Eye contact:

Causes serious eye damage

Inhalation:

Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Skin Contact:

Causes severe skin burns.

Ingestion:

Harmful if swallowed. Irritating to mouth, throat and stomach.

May damage fertility or the unborn child.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact:

Adverse symptoms may include the following:

Pain or irritation

Watering Redness

Inhalation:

No known significant effects or critical hazards.

Skin Contact:

Adverse symptoms may include the following:

Pain or irritation

redness

Ingestion:

Harmful if swallowed. Irritating to mouth, throat and stomach

May damage fertility or the unborn child.

Delayed and immediate effects and also chronic effects from short and long term exposure

iort term exposure

Totential immediate effects: No known significant effects or critical hazards.

Potential delayed effects:

No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

otential chronic health effects

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates There is no data available.

Section 12. Ecological Information

Toxicity There is no data available

Persistence and Degradability: There is no data available

Bioaccumulative Potential: There is no data available

Mobility in Soil

Soil/water partition coefficient:

 (K_{oc})

Not available

ther adverse effects: No known significant effects or critical hazards.

Section 13. Disposal Considerations

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

	DOT / TDG	IMDG	IATA
UN Number	1760	1760	1760
UN Proper Shipping Name	Corrosive liquid N.O.S. (acid salts)	Corrosive liquid N.O.S. (acid salts)	Corrosive liquid N.O.S. (acid salts)
Transport Hazard Class(es)	8	8	8

Packing Group	111		Tiii
Environmental Hazards	No	No	No ¦
Additional Information			

ansport in bulk according: Not available

Annex II of MARPOL 73/78 and the IBC Code

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do

in the event of an accident or spillage.

Section 15. Regulatory Information

United States - Patent No. 8,389,453

U.S. Federal Regulations: United States Inventory (TSCA): All components are listed or exempted

Clean Air Act Section 112:

Not listed

(b) Hazardous Air Pollutants (HAPS)

Clean Air Act Section 602:

Not listed

Class I Substances

Clean Air Act Section 602:

Not listed

Class II Substances

DEA List ! Chemicals:

Not listed

'Prècursor Chemicals)

-A List II Chemicals:

Not listed

(Essential Chemicals)

SARA 302/304

Composition/Information on Ingredients

Not listed

SARA 311/312

Classification:

Immediate (acute) health hazard

Composition/Information on Ingredients

Name	%	Fire Hazard	Sudden Release of Pressure	Reactive	Immediate (acute) Health Hazard	Delayed (chronic) Health Hazard
Organic Acid Salt Proprietary ingredient 2	proprietary proprietary	No No	No No	No No	Yes Yes	No No
Proprietary ingredient 3	proprietary	No	No	No	Yes	No No

International Lists

National Inventory

Australia (AICS): At

At least one component is not listed.

Canada (DSL):
) China (IECSC):

All components are listed or exempted.
At least one component is not listed.

Europe (EINECS):

At least one component is not listed.

Japan (ENCS): At least one component is not listed.

New Zealand (NZIoC): At least one component is not listed.

Philippines (PICCS): At least one component is not listed.

Republic of Korea (KECL): At least one component is not listed.

Taiwan (NECI): At least one component is not listed.

At least one component is not listed.

Section 16. Other Information

History

Date of issue mm/dd/yyyy: 12/03/2014

Date of previous issue: Version:

None

Revised Section(s):

Not applicable

Prepared by:

lmt

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Disclaimer: As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including, but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.



SAFETY DATA SHEET

1021, 1016 SELF LEVELING SEALANT ALL COLORS

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):

1021, 1016 SELF LEVELING SEALANT ALL COLORS

Synonyms:

N/A

CAS No:

Mixture

1.2 Product Use:

Various uses

1.3 Company Name:

Alpha Systems LLC

Company Address:

5120 Beck Dr

Company Address Cont:

Elkhart IN 46516

Business Phone:

(800) 462-4698

Website:

www.alphallc.us

1.4 Emergency Telephone Number:

24 HR Emergency Contact: CHEMTREC 800 424-9300

During normal business hours: 574-295-5206

Date of Current Revision:

June 10, 2019 May 12, 2015

Date of Last Revision:

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a liquid with a characteristic odor.

Health Hazards: This product may cause skin and eye irritation. May cause drowsiness and dizziness. May be an aspiration

nazard.

Flammability Hazards: This product is a flammable liquid with a flash point of 16°F (-9°C).

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term

adverse environmental effects.

US DOT Symbols:

EU and GHS Symbols:

Signal Word:

FLAMMABLE





Danger!

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

EC# 205-563-8 is listed in Annex VI Index# 601-008-00-2

Components Contributing to Classification:

Heptane

2.2 Label Elements:

GHS Hazard Classifications:

Flammable Liquid Category 2 Skin Irritant Category 2 Eye Irritant Category 2A

Specific Target Organ Toxicity - Single Exposure Category 3

Aspiration Toxicity Category 1 Aquatic Chronic Category 2 Aquatic Acute Category 2

Alpha Systems LLC

Hazard Statements:

Prevention Statements:

Response Statements:

Storage Statements:

Disposal Statements:

Disposai Statements.

1021, 1016 SELF LEVELING SEALANT ALL COLORS

H225: Highly flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

H304: May be fatal if swallowed and enters airways

H401: Toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects.

P210: Keep away from heat/spark/open flame/hot surfaces -- No

Smoking

P233: Keep container tightly closed

P240: Ground and bond container and receiving equipment

P241: Use explosion-proof [electrical/ventilating/lighting] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P264: Wash thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire use water, foam, dry chemical, carbon dioxide

or halon to extinguish.

P321: Specific treatment (See Section 4 of this SDS).

P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell. P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331: Do NOT induce vomiting.

P391: Collect spillage.

P403+P233+ P235: Store in well-ventilated place. Keep container tightly

closed. Keep cool. P405: Store locked up.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation:

Inhalation of vapors may cause drowsiness or dizziness.

Skin Contact: Skin contact may cause irritation.

Eye Contact: Contact with eyes may cause serious irritation.

Ingestion:

Ingestion of this product may cause irritation. Aspiration hazard.

Chronic: No data available

Target Organs:

Acute: Eyes, Skin, Respiratory system

Chronic: No data available

	 		
CECTION		/ MICOBRACE	ION ON INGREDIENTS
act illini	 - U.CHVIPLESTI ICINI	INFORMALI	ICIN ON INICEPHINENTS

Hazardous Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification	
Heptane	10-<25%	142-82-5	205-563-8	H225: Flam, Liq. Cat 2, H304: Aspiration Toxicity Cat 1, H315: Skin Irrit, Cat 2, H336: STOT SE Cat 3, H400: Aquatic Acute Cat 1, H410: Aquatic Chronic Cat 1	
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

Skin Contact:

Inhalation:

Ingestion:

Medical Conditions Generally Aggravated by Exposure:

4.2 Symptoms and Effects Both Acute and Delayed:

4.3 Recommendations to Physicians:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical

If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

This product may cause skin and eye irritation. May cause drowsiness and dizziness. May be an aspiration hazard.

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

5.2 Unusual Fire and Explosion Hazards:

Explosive Sensitivity to Mechanical Impact:

Explosive Sensitivity to Static Discharge:

5.3 Special Fire-Fighting Procedures:

Water Spray: Yes

Foam: Yes Halon: Yes

No

Yes

Carbon Dioxide: Yes Dry Chemical: Yes

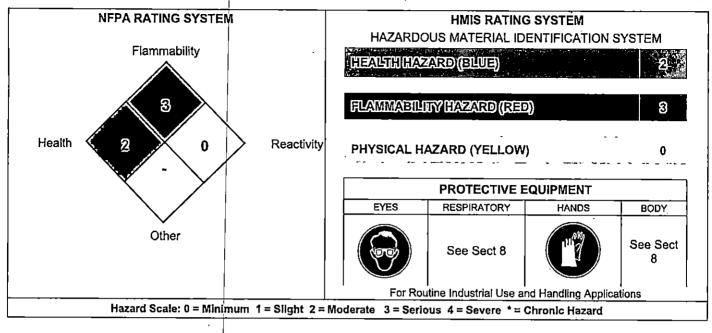
Other: Any "C" Class

Incipient fire responders should wear eye protection.

Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.

Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.

If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

Large Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- · Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
 Soak up with absorbent material such as clay, sand or other suitable non-reactive material.
- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Various uses,

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Heptane	142-82-5	350 mg/m³	1640 mg/m³

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

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The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection)) and those of Japan. Please reference applicable regulations and standards for relevant details.

Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards,

or relevant Japanese Standards.

Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Use body protect appropriate to task being performed.

If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

Respiratory Protection:

Eye Protection:

Hand Protection:

Body Protection:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Liquid

Odor: Characteristic

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: 199°F (93°C). Flash Point: 16°F (-9°C).

Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: Lower: 1.1 Vol % Upper: 6.7 Vol %

Vapor Pressure (mm Hg @ 20°C (68° F): 48 hPa (36 mm Hg)

Vapor Density: No data available Relative Density: No data available Specific Gravity: No data available

Solubility in Water: Not miscible or difficult to mix.

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

9.2 Other Information:

Solvent content:

Organic solvents: 22.0 % VOC content: 22.0 % 286.0 g/l / 2.39 lb/gl

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

This product is not reactive.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

Will not occur.

10.4 Conditions to Avoid:

No data available

1021, 1016 SELF LEVELING SEALANT ALL COLORS

10.5 Incompatible Substances:

No data available No data available

10.6 Hazardous Decomposition Products:

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Hazardous Component	CAS#	LD 50 of Ingredient	LC 50 of Ingredient
Heptane	142-82-5	No data	Inhalation LC 50: 103,000 mg/m³ 4h

Suspected Cancer Agent:

Ingredients within this product are not found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be cancer-causing agents by these

agencies.

Irritancy:

Skin, eye and respiratory irritant.

Sensitization to the Product:

This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity:

This product does not contain ingredients that are suspected to be a

germ cell mutagenic.

Reproductive Toxicity:

This product is not expected to be a human reproductive toxicant.

Specific Target Organ Toxicity - Single Exposure: Specific Target Organ Toxicity -- Repeated

May cause drowsiness / dizziness.

Exposure:

Data not sufficient for classification.

Aspiration Hazard:

This product may be an aspiration hazard.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 TOXICITY.	ļ		
Hazardous Component	CAS#	LC50 of Ingredient	EC 50 of Ingredient
Heptane	142-82-5	96 hr LC 50: 375 mg/L	Water flea- 48 hr EC 50: 1.50 mg/L
12.2 Persistence and Degradability	.	No specific data available on	this product

No specific data available on this product. No specific data available on this product.

12.3 Bioaccumulative Potential: 12.4 Mobility in Soil:

No specific data available on this product. No specific data available on this product.

12.5 Results of PBT and vPvB Assessment: 12.6 Other Adverse Effects:

No data available

12.7 Water Endangerment Class:

At present, there are no ecotoxicological assessments for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and

Japan.

13.2 EU Waste Code:

Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations (BULK):

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

UN1133

Proper Shipping Name:

Adhesives Solution

Hazard Class Number and Description:

Class 3 Flammable Liquids

Packing Group:

DOT Label(s) Required:

Flammable Liquids

North American Emergency Response Guidebook

128

Number:

14.2 Environmental Hazards:

Marine Pollutant:

The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

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14.3 Special Precaution for User:

None

14.4 International Air Transport Association Shipping

Information (IATA):

This product is considered as dangerous goods.!

14.5 International Maritime Organization Shipping

Information (IMO):

This product is considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes: Chronic Health! No:

Fire: Yes; Reactivity; No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is classified per WHMIS hazardous Product Regulations.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By:

Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing:

June 10, 2019

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Alpha Systems LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Alpha Systems LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET

ASHLAND. SAFETY DATA SHEET MERCEDES-BENZ PART # BQ1030004

Page: 1

Revision Date: 06/17/2011

Print Date: 2/6/2013

MSDS Number: R0296767

Version: 1.12

Mercedes® Benz G-48 ANTIFREEZE

COOLANT 798694

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone number

1-800-ASHLAND (1-800-274-

5263)

Product name

Mercedes® Benz G-48 ANTIFREEZE COOLANT

Product code

798694

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, blue

WARNING! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eve contact

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin contact

May cause mild skin irritation. Symptoms may include redness and burning of skin. Skin absorption of this material (or a component) may be increased through injured skin.

Ingestion

Swallowing this material may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol. Ingestion of medications contaminated



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Revision Date: 06/17/2011

Print Date: 2/6/2013

MSDS Number: R0296767

Version: 1.12

Mercedes® Benz G-48 ANTIFREEZE COOLANT 798694

with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, central nervous system excitation (giddiness, liveliness, lightheaded feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, pain in the abdomen and lower back, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), acute kidney failure (sudden slowing or stopping of urine production), liver damage, Convulsions, coma

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, reproductive effects, kidney damage, liver damage, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, liver damage, kidney damage

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Ethylene glycol has caused birth defects in animal studies at high oral doses. However, it did not cause harm to the pregnant animal or to the fetus when applied to the skin of the pregnant animal., This



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material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
ETHYLENE GLYCOL	107-21-1	>=90-<=100%
DIETHYLENE GLYCOL	111-46-6	>=1.5-<5%
2-ETHYLHEXANOIC ACID, SODIUM SALT	19766-89-3	>=1.5-<5%

4. FIRST AID MEASURES

Eves

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician



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Hazards: Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis. Ingestion or other significant exposure to this material (or a component) may cause metabolic acidosis.

Treatment: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Water spray

Hazardous combustion products

Alcohols, Aldehydes, carbon dioxide and carbon monoxide, ethers, toxic fumes, Hydrocarbons

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ETHYLENE GLYCOL		107-21-1	
ACGIH	Ceiling Limit Value:	100 mg/m3	Aerosol.
DIETHYLENE GLYCOL		111-46-6	
WEEL	time weighted average	10 mg/m3	

General advice



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These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. Maintain eye wash station near work area.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an airpurifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Form liquid

no data available

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Colour Odour

Boiling point/boiling range

Melting point/range Sublimation point

pН

Flash point

Ignition temperature Evaporation rate

Lower explosion limit/Upper explosion limit

Particle size

Vapour pressure

Relative vapour density

Density

Bulk density
Water solubility
Solubility(ies)

Partition coefficient: n-octanol/water

log Pow

Autoignition temperature Viscosity, dynamic Viscosity, kinematic Solids in Solution

Decomposition temperature

Burning number

Dust explosion constant Minimum ignition energy blue mild

387.1 °F / 197.3 °C Calculated Phase Transition

Liquid/Gas

no data available no data available (Average) 7.2 (>)250 °F / 121 °C

no data available no data available

3.2 %(V) / 15.3 %(V) Calculated Explosive Limit

no data available

3.000 hPa @ 77 °F / 25 °C Calculated Vapor

Pressure

no data available

no data available

(Average) 1.1243 g/cm3 @ 77.00 °F / 25.00 °C

9.382 lb/gal @ 77.00 °F / 25.00 °C

No data

no data available no data available no data available no data available no data available no data available no data available no data available no data available no data available

no data available

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

excessive heat



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Incompatible products

Aldehydes, Alkaline earth metals, Alkali metals, Strong acids, strong alkalis, Strong oxidizing agents, Sulphur compounds

Hazardous decomposition products

carbon dioxide and carbon monoxide, Aldehydes, ketones, Organic acids, Alcohols, ethers, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

ETHYLENE GLYCOL : LD 50 Rat: 6,140 mg/kg

DIETHYLENE GLYCOL : LD 50 Rat: 12,565 mg/kg

2-ETHYLHEXANOIC ACID, SODIUM SALT : LD 50 Rat: > 3 g/kg

Acute inhalation toxicity

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : LC Lo Mouse: 130 mg/m3; 2 h

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Acute dermal toxicity

ETHYLENE GLYCOL : LD 50 Rabbit: 9,530 mg/kg

DIETHYLENE GLYCOL : LD 50 Rabbit: 11,890 mg/kg

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available



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12. ECOLOGICAL INFORMATION

Biodegradability

ETHYLENE GLYCOL

: no data available

DIETHYLENE GLYCOL

: 92 %

Exposure time: 28 d

2-ETHYLHEXANOIC ACID, SODIUM SALT

no data available

Bioaccumulation

ETHYLENE GLYCOL

Species: Crayfish (Procambarus)

Exposure time: 61 d Dose: 1,000 mg/l

Bioconcentration factor (BCF): 0.27

Method: Flow through

DIETHYLENE GLYCOL

: no data available

2-ETHYLHEXANOIC ACID, SODIÚM SALT

: no data available

Ecotoxicity effects

Toxicity to fish

ETHYLENE GLYCOL

: 96 h LC 50 Bluegill (Lepomis macrochirus): 27,540.00

mg/l Method: Static; Mortality

96 h LC 50 Fathead minnow (Pimephales promelas):

8,050.00 mg/l; Mortality

DIETHYLENE GLYCOL

: 96 h LC 50 Western mosquitofish (Gambusia affinis):

> 32,000.00 mg/l Method: Static; Mortality

2-ETHYLHEXANOIC ACID, SODIUM SALT

: no data available

Toxicity to daphnia and other aquatic invertebrates.

ETHYLENE GLYCOL

: 48 h LC 50 Water flea (Daphnia magna): > 10,000.00

mg/l Method: Static Mortality

DIETHYLENE GLYCOL

: 24 h LC 50 Water flea (Daphnia magna): > 10,000.00

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mg/l Method: Static Mortality

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Toxicity to algae

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : no data available

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Toxicity to bacteria

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : no data available

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Biochemical Oxygen Demand (BOD)

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : no data available

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Chemical Oxygen Demand (COD)

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : no data available

2-ETHYLHEXANOIC ACID, SODIUM SALT : no data available

Additional ecological information

ETHYLENE GLYCOL : no data available

DIETHYLENE GLYCOL : no data available



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2-ETHYLHEXANOIC ACID, SODIUM SALT

: no data available

2-ETHYLHEXANOIC ACID, SODIU	M SALT	: no dat	ta available		
13. DISPOSAL CONSIDERAT	IONS				
Waste disposal methods Dispose of in accordance					
14. TRANSPORT INFORMAT					
REGULATION					
ID PROPER SHIPPING NUMBER	NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
U.S. DOT - ROAD					
Not dangerous good	l\$				
U.S. DOT - RAIL					
Not dangerous good	ls				
U.S. DOT - INLAND WATERWAY	YS			-	
Not dangerous good	ls				
TRANSPORT CANADA - ROAD					
Not dangerous good	is				
TRANSPORT CANADA - RAIL					
Not dangerous good	ls				
TRANSPORT CANADA - INLAN	 D WATERV	VAYS			
Not dangerous good	ļs				
INTERNATIONAL MARITIME I	ANGEROU	JS GOODS			
Not dangerous good	s				
INTERNATIONAL AIR TRANSP	ORT ASSO	CIATION - CA	ARGO		
Not dangerous good		OHITAGIT - CI			
5 5	_				



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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND

WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

SARA Hazard Classification

Acute Health Hazard

SARA 313 Component(s)

ETHYLENE GLYCOL

93.33 %

New Jersey RTK Label Information

ETHYLENE GLYCOL 107-21-1
DIETHYLENE GLYCOL 111-46-6
2-ETHYLHEXANOIC ACID, SODIUM SALT 19766-89-3
DECANEDIOIC ACID, DISODIUM SALT 17265-14-4

Pennsylvania RTK Label Information

ETHYLENE GLYCOL 107-21-1
DIETHYLENE GLYCOL 111-46-6
2-ETHYLHEXANOIC ACID, SODIUM SALT 19766-89-3

Notification status

US. Toxic Substances Control Act v (positive listing)

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Australia. Industrial Chemical (Notification and Assessment)

n (Negative listing)

Act

Canada. Canadian Environmental Protection Act (CEPA).

y (positive listing)

Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)

Japan. Kashin-Hou Law List

n (Negative listing)

Korea. Toxic Chemical Control Law (TCCL) List

y (positive listing)

Philippines. The Toxic Substances and Hazardous and Nuclear

y (positive listing)

Waste Control Act

China, Inventory of Existing Chemical Substances

y (positive listing)

New Zealand. Inventory of Chemicals (NZIoC), as published

by ERMA New Zealand

n (Negative listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)

5357 lbs

Reportable quantity-Components

ETHYLENE GLYCOL

107-21-1

5000 lbs

	HMIS	NFPA
Health	2	2
Flammability	1	1
Physical hazards	0	
Instability	3	0
Specific Hazard		

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).



SAFETY DATA SHEET

DP40

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Trade Name (as labeled):

Synonyms:

CAS No:

Product number:

1.2 Product Use:

1.3 Company Name: Company Address:

Company Address Cont:

Business Phone:

Website:

1.4 Emergency Telephone Number:

Date of Current Revision:

Date of Last Revision:

DP40

Non-skinning Butyl Caulk

Mixture

Alpha 1040

Standing seam sealer

Alpha Systems LLC

5120 Beck Dr

Elkhart IN 46516

(574) 295-5206

www.alphalic.us

CHEMTREC Emergency (800) 424-9300

February 8, 2016

New

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a beige liquid with a slight putrid odor.

Health Hazards: This product may cause eye, skin and respiratory system irritation. May cause drowsiness and dizziness. May be

a reproductive hazard.

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

None

EU and GHS Symbols:

Signal Word:

Danger!

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

EC# 271-366-9 is not listed in Annex VI

Substances not listed either individually or in group entries must be self-classified.

Components Contributing to Classification:

Mineral Spirits

2.2 Label Elements:

GHS Hazard Classifications:

Aspiration Toxicity Category 1

Hazard Statements:

Response Statements:

Precautionary Statements:

H304: May be fatal if swallowed and enters airways

None P301+P310 IF SWALLOWED: Immediately call a POISON

Center/doctor.

P331 Do NOT induce vomiting.

Storage Statements:

P405: Store locked up.

Disposal Statements:

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation:

Inhalation of this product may cause irritation. Skin Contact: Prolonged skin contact may cause irritation.

Eve Contact: Contact with eves may cause irritation.

Indestion:

Aspiration hazard if swallowed and enters airways.

Chronic: None known

Target Organs:

Acute: Eyes, Skin, Respiratory system

Chronic: None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification
Mineral Spirits	10-15%	68551-17-7	271-366-9	H304: Aspiration Toxicity Cat 1, H413: Aquatic Chronic Cat 4
Balance of other ingredients are sensitizers).	non-hazardous	or less than 1% in	concentration (or 0.	1% for carcinogens, reproductive toxins, or respiratory

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Wash skin thoroughly with soap and water after handling. Seek medica Skin Contact:

attention if irritation develops and persists.

If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical

advice. Take a copy of the label and/or SDS with the victim to the

health professional.

Medical Conditions Generally Aggravated by

Exposure:

Ingestion:

Inhalation:

Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed:

4.3 Recommendations to Physicians:

Exposure to skin, eyes and respiratory system may cause irritation.

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

Water Spray: Yes

Foam: Yes Halon: Yes Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

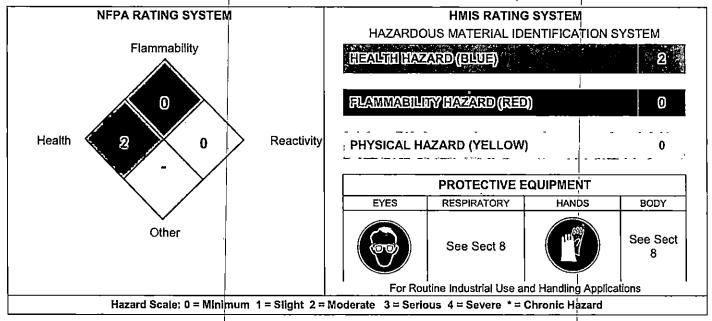
Explosive Sensitivity to Mechanical Impact:

Explosive Sensitivity to Static Discharge:

No No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
 Move containers from fire area if this can be done without risk;
 otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies
 of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

Large Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
 Soak up with absorbent material such as clay, sand or other suitable non-reactive material.
- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Standing seam sealer.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure Parameters:

		and the second s		
<u>Ingredients</u>	CAS No.	OSHA PEL	NIOSH PEL	
Mineral Spirits	68551-17-7	Not established	Not established	

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN/149, or EU member states.

Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910,133, Canadian Standards, and the European Standard EN166, Australian Standards,

or relevant Japanese Standards.

Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910 138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Use body protect appropriate to task being performed.

If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot

protection, as described in U.S. OSHA 29 CFR 1910.136.

Respiratory Protection:

Eye Protection:

Hand Protection:

Body Protection:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Beige liquid

Odor: Slight putrid odor

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: No data available Flash Point: No data available Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: Not applicable Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available

Specific Gravity: 1.5 Solubility in Water: None

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

9.2 Other Information:

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

This product is not reactive.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

Will not occur.

10.4 Conditions to Avoid:

Avoid heat, sparks and flame.

10.5 Incompatible Substances:

Strong oxidizing agents.

10.6 Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

No specific data available on this product. **Toxicity Data:**

> Ingredients within this product are not found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be cancer-causing agents by these

agencies.

Irritancy:

This product is not expected to be a skin, eye of respiratory irritant.

This product is not expected to cause skin sensitization.

Sensitization to the Product: This product does not contain ingredients that are suspected to be a

germ cell mutagenic.

Germ Cell Mutagenicity: Reproductive Toxicity:

Suspected Cancer Agent:

This product is not expected to be a human reproductive toxicant.

SECTION 12 - ECOLOGICAL INFORMATION

No specific data available on this product. 12.1 Toxicity:

No specific data available on this product. 12.2 Persistence and Degradability:

12.3 Bioaccumulative Potential: No specific data available on this product. No specific data available on this product. 12.4 Mobility in Soil:

No specific data available on this product. 12.5 Results of PBT and vPvB Assessment:

No data available 12.6 Other Adverse Effects:

At present, there are no ecotoxicological assessments for this product. 12.7 Water Endangerment Class:

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal must be in accordance with appropriate U.S. Federal, 13.1 Waste Treatment Methods:

State, and local regulations, those of Australia, EU Member States and

Japan.

Not determined 13.2 EU Waste Code:

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations (BULK):

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

None

Proper Shipping Name:

None

Hazard Class Number and Description:

Not Regulated

Packing Group:

None

DOT Label(s) Required:

None

North American Emergency Response Guidebook

Number:

None

14.2 Environmental Hazards:

The components of this product are not designated by the Department of Marine Pollutant: Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

None

14.4 International Air Transport Association Shipping

This product is not considered as dangerous goods.

Information (IATA):

14.5 International Maritime Organization Shipping

Information (IMO):

This product is not considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act: None

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health No; Fire: Yes; Reactivity; No

U.S. CERCLA Reportable Quantity:

Reportable Quantity (RQ): None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does contain ingredients on the Proposition 65 Lists.

None

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is classified per WHMIS Controlled Product Regulations.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By:

Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing:

February 8, 2016

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. W.F.Young assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, W.F.Young assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



SAFETY DATA SHEET

8011 WATER BASED ADHESIVE

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1 Trade Name (as labeled):

Synonyms:

CAS No:

Product number:

1.2 Product Use:

1.3 Company Name:

Company Address:

Company Address Cont: Business Phone:

Website:

1.4 Emergency Telephone Number:

Date of Current Revision: Date of Last Revision: 8011 Water Based Adhesive

Water based adhesive

Mixture

N/A

Commercial Water Based Adhesive

Alpha Systems LLC

5120 Beck Dr

Elkhart IN 46516 (800) 462-4698

www.alphallc.us

24 HR Emergency Contact: CHEMTREC 800 424-9300

During normal business hours: 574-295-5206

August 22, 2019

New

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white liquid with no odor.

Health Hazards: This product may cause eye, skin and respiratory system irritation. Contains a chemical which is a suspected carcinogen.

Flammability Hazards: This product does not meet the definition of a combustible liquid with a flash point of >200°F.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

See Section 14

EU and GHS Symbols:

Signal Word:

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

EC# 203-545-4 Annex VI Index# 607-023-00-0

Substances not listed either individually or in group entries must be self-classified.

Components Contributing to Classification:

Vinyl Acetate Monomer

2.2 Label Elements:

GHS Hazard Classifications:

Prevention Statements:

Response Statements:

Storage Statements:

Disposal Statements:

Carcinogenicity Category 2

Hazard Statements: H351: Suspected of causing cancer

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have bene read and

understood.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Other hazards: None applicable

Hazardous Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification
Vinyl Acetate Monomer	0.1-1%	108-05-4	203-545-4	H225: Flammable Liquid Category 2, H332: Acute Tox Cat 4 (Inhalation), H351: Carcinoger Category 2, H335: STOT SE Cat 3,

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

Skin Contact:

Inhalation:

Ingestion:

Medical Conditions Generally Aggravated by Exposure:

4.2 Symptoms and Effects Both Acute and Delayed:

4.3 Recommendations to Physicians:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to

do. Seek medical attention if irritation persists.

Wash skin thoroughly with soap and water after handling. Seek medical

attention if irritation develops and persists.

If breathing becomes difficult, remove victim to fresh air. If necessary,

use artificial respiration to support vital functions. Seek medical

attention.

If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the

health professional.

Pre-existing skin, respiratory system or eye problems may be

aggravated by prolonged contact.

Exposure to skin, eyes and respiratory system may cause irritation.

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

Water Spray: Yes

Foam: Yes Halon: Yes Carbon Dioxide: Yes

Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

5.3 Special Fire-Fighting Procedures:

Explosive Sensitivity to Mechanical Impact:

Explosive Sensitivity to Static Discharge:

No No

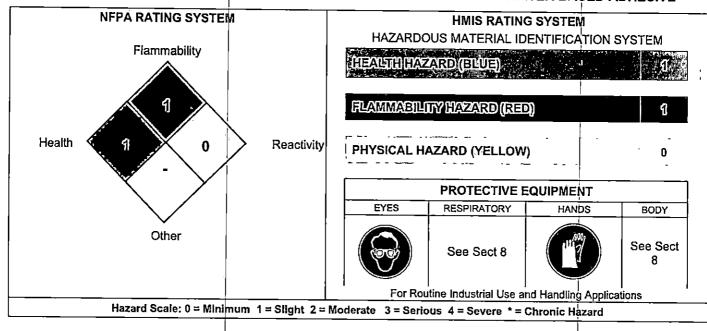
Incipient fire responders should wear eye protection.

Structural firefighters must wear Self-Contained Breathing

Apparatus (SCBA) and full protective equipment.

Isolate materials not yet involved in the fire and protect personnel.
 Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.

 If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

Large Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- · Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
 Soak up with absorbent material such as clay, sand or other suitable non-reactive material.
- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Commercial Water Based Adhesive

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	ACGIH
Vinyl Acetate Monomer	108-05-4	10 ppm / 30 mg/m ³	10 ppm

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

Alpha Systems LLC

8011 WATER BASED ADHESIVE

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant

Respiratory Protection:

Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910 133, Canadian Standards, and the European Standard EN166, Australian Standards,

or relevant Japanese Standards.

Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian

Standards, or relevant Japanese Standards.

Use body protect appropriate to task being performed.

If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

Body Protection:

Eye Protection:

Hand Protection:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): White liquid

Odor: No odor

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: No data available

Flash Point: >200°F

Evaporation Rate: No data available

Flammability (Solid; Gas): No data available

Upper/Lower Flammability or Explosion Limits: Not applicable Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available Relative Density: No data available Specific Gravity: No data available

Solubility in Water: Yes

9.2 Other Information:

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: 12,000 - 17,000 cps

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

No data available.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

Vapours may form explosive mixture in air.

10.4 Conditions to Avoid:

Avoid heat, sparks and flame.

10.5 Incompatible Substances:

No data available.

10.6 Hazardous Decomposition Products:

No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Vinyl Acetate Monomer: LD50 Oral Rat: 3,500 mg/kg

LC50 Inhalation Rat: 15,810 mg/m³ 4h

LD50 Dermal Rabbit: 7,440 mg/kg

Suspected Cancer Agent:

Ingredients within this product are found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore

are considered to be cancer-causing agents by these agencies.

Irritancy: Sensitization to the Product:

This product may be a skin, eye or respiratory irritant. This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity:

This product does not contain ingredients that are suspected to be a

germ cell mutagenic.

Reproductive Toxicity:

This product is not expected to be a human reproductive toxicant.

Specific Target Organ Toxicity - Single Exposure: Data not sufficient for classification.

Specific Target Organ Toxicity - Repeated

Data not sufficient for classification.

Exposure: **Aspiration Hazard:**

May be an aspiration hazard.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

No specific data available on this product.

12.2 Persistence and Degradability: 12.3 Bioaccumulative Potential:

No specific data available on this product. No specific data available on this product.

12.4 Mobility in Soil:

No specific data available on this product. No specific data available on this product.

12.5 Results of PBT and vPvB Assessment: 12.6 Other Adverse Effects:

No data available

12.7 Water Endangerment Class:

At present, there are no ecotoxicological assessments for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and

Japan.

13.2 EU Waste Code:

Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations (BULK):

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:

N/A

Proper Shipping Name:

Not Regulated

Hazard Class Number and Description:

N/A

Packing Group:

N/A N/A

DOT Label(s) Required:

North American Emergency Response Guidebook N/A

Number:

14.2 Environmental Hazards:

Marine Pollutant:

The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

14.4 International Air Transport Association Shipping

Information (IATA):

This product is not considered as dangerous goods.

14.5 International Maritime Organization Shipping

Information (IMO):

This product is not considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act: Vinyl Acetate Monomer CAS# 108-05-4

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health! Yes; Fire: Yes; Reactivity: No

U.S. CERCLA Reportable Quantity:

Reportable Quantity (RQ): None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does contain the following ingredients, which are on the Proposition 65 List, at concentrations <0.1%: Diethanolamine, Acetaldehyde, Benzene, 1.4-Dioxane, Ethylene Oxide.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is classified per WHMIS Hazardous Product Regulations.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By:

Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing:

8/22/2019

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Alpha Systems assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Alpha Systems assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



Revision Date: 11/23/2009

Print Date: 1/7/2010

MSDS Number: R0171784

Version: 1.19

ONAMAXTM SAE 15W40 ENGINE OIL ON28930

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone

1-800-ASHLAND

(1-800-274-5263)

Product name

ONAMAX™ SAE 15W40 ENGINE OIL

Product code

ON28930

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, amber

CAUTION!

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND

CAUSE IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

Unlikely to cause eye irritation or injury.

Skin contact

Unlikely to cause skin irritation or injury. Prolonged or repeated contact may dry and crack the skin.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large



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amounts may be harmful Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS-No. Concentration

DISTILLATES (PETROLEUM), 64742-54-7 >=80-<90%

PARAFFINIC

4. FIRST AID MEASURES

Eyes



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If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Foam, Carbon dioxide (CO2), Water mist

Hazardous combustion products

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, zinc oxide, Hydrocarbons





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Precautions for fire-fighting

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Spills of this material are very slippery.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Wash walking surfaces with detergent and water to reduce slipping hazard.

Other information

Notify the proper authorities as required that a spill has occurred. Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area.



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ONAMAXTM SAE 15W40 ENGINE OIL ON28930

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Form

liquid No data amber

Colour Odour

hydrocarbon-like

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ONAMAX™ SAE 15W40 ENGINE OIL ON28930

Boiling point/boiling range

pН

Flash point

Evaporation rate Explosion limits

Vapour pressure

Vapour density

Density

Solubility

Partition coefficient: n-octanol/water

octanoi/wa log Pow

Autoignition temperature

No data

No data

(>)390 °F / 199 °C, Cleveland open cup

No data

1 %(V) 6 %(V)

0.01 hPa @ 70.00 °F / 21.11 °C

No data

0.880 g/cm3 @ 60.1 °F / 15.6 °C 7.4 lb/gal @ 60.1 °F / 15.6 °C

negligible in water

No data

no data available

No data

10. STABILITY AND REACTIVITY

Stability

Stable

Conditions to avoid

excessive heat

Incompatible products

Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, zinc oxide, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

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Revision Date: 11/23/2009

Print Date: 1/7/2010

MSDS Number: R0171784

Version: 1.19

ONAMAX™ SAE 15W40 ENGINE OIL ON28930

> DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC LD 50 Rat: > 15 g/kg

Acute inhalation toxicity

DISTILLATES (PETROLEUM). no data available
HYDROTREATED HEAVY PARAFFINIC

Acute dermal toxicity

DISTILLATES (PETROLEUM), LD 50 Rabbit: > 5 g/kg
HYDROTREATED HEAVY PARAFFINIC

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION



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ONAMAXTM SAE 15W40 ENGINE OIL ON28930

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SARA Hazard Classification No SARA Hazards

SARA 313 Component(s)

ZINC COMPOUNDS

ZINC COMPOUNDS

1.65%

New Jersey RTK Label Information

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7

PARAFFINIC

LUBRICANT ADDITIVE

ZINC COMPOUNDS

Pennsylvania RTK Label Information

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7

PARAFFINIC

PARAFFINIC

LUBRICANT ADDITIVE

Reportable quantity - Components

DISTILLATES (PETROLEUM),

64742-54-7

none

HYDROTREATED HEAVY

	Health	Flammability	Reactivity	Other
HMIS	1	1	0	
NFPA	1	1	0	

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).