

# Safety Data Sheets

CD-HF



**Roadyard Bisbee - FTS Striping**

03/13/2018



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# SAFETY DATA SHEET

## 1. Identification

**Product number** 1000028765  
**Product identifier** 18 OZ NAPA MAC'S BRAKE PARTS CLEANER 4700  
**Company information** NAPA Balkamp  
2601 S. Holt Road  
Indianapolis, IN 46241 United States General  
**Company phone** Assistance 1-317-244-7241  
**Emergency telephone US** 1-866-836-8855  
**Emergency telephone outside US** 1-952-852-4646  
**Version #** 01  
**Recommended use** CLEANER  
**Recommended restrictions** None known.

## 2. Hazard(s) identification

**Physical hazards** Gases under pressure Compressed gas  
**Health hazards** Carcinogenicity Category 2  
**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Warning  
**Hazard statement** Contains gas under pressure; may explode if heated. Suspected of causing cancer.  
**Precautionary statement**  
**Prevention** 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.  
**Storage** Store locked up. Protect from sunlight. Store in a well-ventilated place.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 2  
Hazardous to the aquatic environment, long-term hazard Category 2  
**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	%
Perchloroethylene		127-18-4	90 - 100
Carbon Dioxide		124-38-9	1 - 2.5

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	No specific first aid measures noted.
<b>Ingestion</b>	Not likely, due to the form of the product.
<b>Most important symptoms/effects, acute and delayed</b>	Headache. Dizziness. Nausea.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	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.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.
<b>Specific methods</b>	Cool containers exposed to flames with water until well after the fire is out.
<b>General fire hazards</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases 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. 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Ground and bond containers when transferring material. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
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**Conditions for safe storage, including any incompatibilities**

Level 1 Aerosol.

Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. 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
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3
		5000 ppm

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3 5000 ppm

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Perchloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethylene	Blood	*
	3 ppm	Tetrachloroethylene	End-exhaled air	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

**US - Minnesota Haz Subs: Skin designation applies**

Perchloroethylene (CAS 127-18-4)

Skin designation applies.

**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**

If contact is likely, safety glasses with side shields are recommended.

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear suitable protective clothing. Use of an impervious apron is recommended.

<b>Respiratory protection</b>	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Observe any medical surveillance requirements. 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

<b>Physical state</b>	Gas.
<b>Form</b>	Aerosol. Compressed gas.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	100 psig @70F estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Specific gravity</b>	1.621 estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hydrogen chloride.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Headache. Dizziness. Nausea.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
Perchloroethylene (CAS 127-18-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Dog; Mouse; Rabbit; Rat	3000 ppm
<b>Oral</b>		
LD50	Cat; Dog; Mouse; Rabbit; Rat	> 1500 mg/kg
	Rat	3005 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Perchloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Perchloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not likely, due to the form of the product.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
Perchloroethylene (CAS 127-18-4)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia
		Water flea (Daphnia magna)
		7.55 mg/L, 48 Hours
		6.1 - 9 mg/l, 48 hours

Components	Species	Test Results
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**  
Perchloroethylene 3.4

**Mobility in soil** No data available.

**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** 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 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, non-flammable, (each not exceeding 1 L capacity)  
**Transport hazard class(es)**  
**Class** 2.2  
**Subsidiary risk** -  
**Label(s)** 2.2  
**Packing group** Not applicable.  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Packaging exceptions** 306  
**Packaging non bulk** None  
**Packaging bulk** None

**IATA**

**UN number** UN1950  
**UN proper shipping name** Aerosols, non-flammable  
**Transport hazard class(es)**  
**Class** 2.2  
**Subsidiary risk** -  
**Label(s)** 2.2  
**Packing group** Not applicable.  
**Environmental hazards** Yes  
**ERG Code** 2L  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Other information**  
**Passenger and cargo aircraft** Allowed with restrictions.  
**Cargo aircraft only** Allowed with restrictions.  
**Packaging Exceptions** LTD QTY

**IMDG**

**UN number** UN1950

**UN proper shipping name** AEROSOLS  
**Transport hazard class(es)**  
**Class** 2.2  
**Subsidiary risk** -  
**Label(s)** None  
**Packing group** Not applicable.  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** Not available.  
**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 the IBC Code** Not applicable.

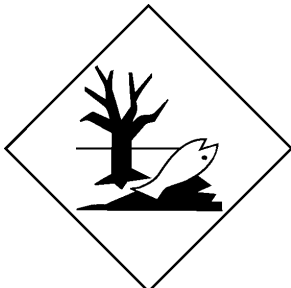
**DOT**



**IATA; IMDG**



**Marine pollutant**



**General information**

IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

**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)**

Perchloroethylene (CAS 127-18-4) 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 - Yes  
 Fire Hazard - No  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Perchloroethylene	127-18-4	90 - 100

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Perchloroethylene (CAS 127-18-4)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**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))**

Perchloroethylene (CAS 127-18-4)

**US. Massachusetts RTK - Substance List**Carbon Dioxide (CAS 124-38-9)  
Perchloroethylene (CAS 127-18-4)**US. New Jersey Worker and Community Right-to-Know Act**Carbon Dioxide (CAS 124-38-9)  
Perchloroethylene (CAS 127-18-4)**US. Pennsylvania Worker and Community Right-to-Know Law**Carbon Dioxide (CAS 124-38-9)  
Perchloroethylene (CAS 127-18-4)**US. Rhode Island RTK**

Perchloroethylene (CAS 127-18-4)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Perchloroethylene (CAS 127-18-4) Listed: April 1, 1988

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No



Country(s) or region	Inventory name	On inventory (yes/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 (PICCS)	Yes
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

<b>Issue date</b>	07-07-2016
<b>Version #</b>	01
<b>Disclaimer</b>	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.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.



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<b>Issue Date:</b>	09/29/16	<b>Supersedes Date:</b>	09/09/16

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Glass Cleaner, P.N. 08888, 39888, 46600

#### Product Identification Numbers

60-4550-3014-2, 60-4550-4507-4, 60-4550-6504-9, 60-4550-7145-0

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive, Automotive Glass Cleaner

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Automotive Aftermarket
<b>ADDRESS:</b>	3M Center, St. Paul, MN 55144-1000, USA
<b>Telephone:</b>	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 2.

Gas Under Pressure: Liquefied gas.

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

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Gas cylinder | Health Hazard |

**Pictograms**



**Hazard Statements**

Flammable aerosol.  
 Contains gas under pressure; may explode if heated.

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.  
 Do not eat, drink or smoke when using this product.  
 Wash thoroughly after handling.

**Response:**

IF exposed: Call a POISON CENTER or doctor/physician.  
 Specific treatment (see Notes to Physician on this label).

**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**

Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

5% of the mixture consists of ingredients of unknown acute dermal toxicity.

5% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 100 Trade Secret *
2-Butoxyethanol	111-76-2	3 - 7 Trade Secret *
Isobutane	75-28-5	3 - 7 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.

#### **Eye 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:**

Rinse mouth. If you feel unwell, get 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.

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## 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. 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 closed container approved for transportation by appropriate authorities. Clean up residue with water. 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.

### 7.2. Conditions for safe storage including any incompatibilities

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
2-Butoxyethanol	111-76-2	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin.
2-Butoxyethanol	111-76-2	OSHA	TWA:240 mg/m3(50 ppm)	SKIN
Isobutane	75-28-5	ACGIH	STEL:1000 ppm	
Natural gas	75-28-5	ACGIH	Limit value not established:	

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

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:

Safety Glasses with side shields

##### 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.

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

### 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 air-purifying respirator suitable for organic vapors

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

<b>General Physical Form:</b>	Liquid
<b>Specific Physical Form:</b>	Aerosol
<b>Odor, Color, Grade:</b>	clear solvent odor.
<b>Odor threshold</b>	<i>No Data Available</i>
<b>pH</b>	11
<b>Melting point</b>	<i>No Data Available</i>
<b>Boiling Point</b>	<i>No Data Available</i>
<b>Flash Point</b>	No flash point
<b>Evaporation rate</b>	Approximately 45 Units not avail. or not appl. [ <i>Ref Std:</i> ETHER=1]
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Flammable Limits(UEL)</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	4.07 [ <i>Ref Std:</i> AIR=1]
<b>Density</b>	0.96 g/ml
<b>Specific Gravity</b>	0.96 [ <i>Ref Std:</i> WATER=1] [ <i>Details:</i> CONDITIONS: @ 70F]
<b>Solubility in Water</b>	Complete
<b>Solubility- non-water</b>	<i>No Data Available</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>No Data Available</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>No Data Available</i>
<b>Viscosity</b>	<i>Not Applicable</i>
<b>Hazardous Air Pollutants</b>	0 % weight [ <i>Test Method:</i> Calculated]
<b>Volatile Organic Compounds</b>	94 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]
<b>Volatile Organic Compounds</b>	9.9 % weight [ <i>Test Method:</i> calculated per CARB title 2]
<b>VOC Less H2O &amp; Exempt Solvents</b>	947 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Toxic Vapor, Gas, Particulate	Not Specified

**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:**

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

May cause additional health effects (see below).

**Skin Contact:**

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

**Eye Contact:**

Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

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

May cause additional health effects (see below).

**Additional Health Effects:**

**Single exposure may cause target organ effects:**

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	Dermal		No data available; calculated ATE > 5,000 mg/kg

Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE > 50 mg/l
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Isobutane	Inhalation-Gas (4 hours)	Rat	LC50 276,000 ppm
2-Butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-Butoxyethanol	Inhalation-Vapor (4 hours)	Guinea pig	LC50 > 2.6 mg/l
2-Butoxyethanol	Ingestion	Guinea pig	LD50 1,414 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Isobutane	Professional judgement	No significant irritation
2-Butoxyethanol	Rabbit	Irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Isobutane	Professional judgement	No significant irritation
2-Butoxyethanol	Rabbit	Severe irritant

**Skin Sensitization**

Name	Species	Value
2-Butoxyethanol	Guinea pig	Not sensitizing

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Isobutane	In Vitro	Not mutagenic
2-Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
2-Butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-Butoxyethanol	Ingestion	Some positive developmental data exist,	Rat	NOAEL 100	during



		but the data are not sufficient for classification		mg/kg/day	organogenesis
2-Butoxyethanol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isobutane	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
Isobutane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Isobutane	Inhalation	respiratory irritation	All data are negative	Mouse	NOAEL Not available	
2-Butoxyethanol	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 hours
2-Butoxyethanol	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 72 mg/kg	not available
2-Butoxyethanol	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-Butoxyethanol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isobutane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,500 ppm	13 weeks
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
2-Butoxyethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 0.15 mg/l	14 weeks

			classification			
2-Butoxyethanol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.15 mg/l	6 months
2-Butoxyethanol	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 1.9 mg/l	8 days
2-Butoxyethanol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 69 mg/kg/day	13 weeks
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information 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.

Dispose of waste product in a permitted industrial waste 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 - Yes

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

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
2-Butoxyethanol (GLYCOL ETHERS)	111-76-2	3 - 7

**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: 1 Flammability: 2 Instability: 0 Special Hazards: None**  
**Aerosol Storage Code: 1**

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.

**HMIS Hazard Classification**

**Health: \*1 Flammability: 2 Physical Hazard: 0 Personal Protection: G**

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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# SAFETY DATA SHEET

1010016

## Section 1. Identification

**Product name** : ACE® RUST STOP Protective Enamel Indoor/Outdoor Flat Black  
**Product code** : 1010016  
**Other means of identification** : Not available.  
**CAS #** : Not applicable.  
**Product type** : Aerosol.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Manufacturer** : MFD. FOR: ACE HARDWARE CORPORATION  
OAK BROOK, IL 60523

**Emergency telephone number of the company** : (216) 566-2917

**Product Information Telephone Number** : Not available.

**Regulatory Information Telephone Number** : (216) 566-2902

**Transportation Emergency Telephone 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  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - 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) (lungs) - Category 1  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 40%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 63%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 64.8%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Date of issue/Date of revision** : 8/23/2017

**Date of previous issue** : 5/12/2017

**Version** : 8

**Version** : 8

1/18

## Section 2. Hazards identification

<b>Hazard statements</b>	: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing 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. (lungs)
<b>Precautionary statements</b>	
<b>General</b>	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: 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. 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 hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Pressurized container: Do not pierce or burn, even after use.
<b>Response</b>	: 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: Wash with plenty of soap and water. Wash contaminated clothing 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.
<b>Storage</b>	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	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.
<b>Hazards not otherwise classified</b>	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.
<b>CAS number/other identifiers</b>	

## Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Acetone	21.36	67-64-1
Propane	20.4	74-98-6
n-Butyl Acetate	11.33	123-86-4
Butane	9.6	106-97-8
Talc	9.54	14807-96-6
Lt. Aliphatic Hydrocarbon Solvent	8.67	64742-89-8
Xylene	1.87	1330-20-7
Ethyl 3-Ethoxypropionate	1.7	763-69-9
Carbon Black	0.73	1333-86-4
Ethylbenzene	0.59	100-41-4
Unsaturated Fatty Acids	0.34	85711-46-2

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.**

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** : 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.
- 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** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

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## Section 4. First aid measures

### 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/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.
- 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 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.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
phosphorus oxides  
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.

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## Section 5. Fire-fighting measures

**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).

### 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. 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

**Conditions for safe storage, including any incompatibilities** : 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
Acetone	<b>ACGIH TLV (United States, 3/2016).</b> TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 250 ppm 10 hours. TWA: 590 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 1000 ppm 8 hours. TWA: 2400 mg/m <sup>3</sup> 8 hours.
Propane	<b>NIOSH REL (United States, 10/2016).</b> TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
n-Butyl Acetate	<b>NIOSH REL (United States, 10/2016).</b> TWA: 150 ppm 10 hours. TWA: 710 mg/m <sup>3</sup> 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 150 ppm 8 hours. TWA: 710 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2016).</b> STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Butane	<b>NIOSH REL (United States, 10/2016).</b> TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2016).</b> STEL: 1000 ppm 15 minutes.
Talc	<b>NIOSH REL (United States, 10/2016).</b> TWA: 2 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction <b>ACGIH TLV (United States, 3/2016).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Lt. Aliphatic Hydrocarbon Solvent Xylene	None. <b>ACGIH TLV (United States, 3/2016).</b> TWA: 100 ppm 8 hours. TWA: 434 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 100 ppm 8 hours. TWA: 435 mg/m <sup>3</sup> 8 hours.
Ethyl 3-Ethoxypropionate	None.

## Section 8. Exposure controls/personal protection

Carbon Black	<p><b>NIOSH REL (United States, 10/2016).</b> TWA: 3.5 mg/m<sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 3.5 mg/m<sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2016).</b> TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p>
Ethylbenzene	<p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 20 ppm 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 100 ppm 10 hours. TWA: 435 mg/m<sup>3</sup> 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m<sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
Unsaturated Fatty Acids	None.

### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Acetone	<p><b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 1200 mg/m<sup>3</sup> 8 hours. 15 min OEL: 1800 mg/m<sup>3</sup> 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. <b>CA British Columbia Provincial (Canada, 7/2016).</b> TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. <b>CA Ontario Provincial (Canada, 7/2015).</b> TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes. <b>CA Québec Provincial (Canada, 1/2014).</b> TWAEV: 500 ppm 8 hours. TWAEV: 1190 mg/m<sup>3</sup> 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m<sup>3</sup> 15 minutes. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.</p>
Propane	<p><b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 1000 ppm 8 hours. <b>CA British Columbia Provincial (Canada, 7/2016).</b> TWA: 1000 ppm 8 hours. <b>CA Québec Provincial (Canada, 1/2014).</b> TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m<sup>3</sup> 8 hours. <b>CA Ontario Provincial (Canada, 7/2015).</b> TWA: 1000 ppm 8 hours. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</p>

## Section 8. Exposure controls/personal protection

n-Butyl Acetate

**CA Alberta Provincial (Canada, 4/2009).**  
 15 min OEL: 200 ppm 15 minutes.  
 15 min OEL: 950 mg/m<sup>3</sup> 15 minutes.  
 8 hrs OEL: 150 ppm 8 hours.  
 8 hrs OEL: 713 mg/m<sup>3</sup> 8 hours.

**CA British Columbia Provincial (Canada, 7/2016).**

TWA: 20 ppm 8 hours.

**CA Ontario Provincial (Canada, 7/2015).**

TWA: 150 ppm 8 hours.

STEL: 200 ppm 15 minutes.

**CA Québec Provincial (Canada, 1/2014).**

TWAEV: 150 ppm 8 hours.

TWAEV: 713 mg/m<sup>3</sup> 8 hours.

STEV: 200 ppm 15 minutes.

STEV: 950 mg/m<sup>3</sup> 15 minutes.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 200 ppm 15 minutes.

TWA: 150 ppm 8 hours.

Butane

**CA Alberta Provincial (Canada, 4/2009).**

8 hrs OEL: 1000 ppm 8 hours.

**CA British Columbia Provincial (Canada, 7/2016).**

TWA: 600 ppm 8 hours.

STEL: 750 ppm 15 minutes.

**CA Québec Provincial (Canada, 1/2014).**

TWAEV: 800 ppm 8 hours.

TWAEV: 1900 mg/m<sup>3</sup> 8 hours.

**CA Ontario Provincial (Canada, 7/2015).**

TWA: 800 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 1250 ppm 15 minutes.

TWA: 1000 ppm 8 hours.

Xylene

**CA Alberta Provincial (Canada, 4/2009).**

8 hrs OEL: 100 ppm 8 hours.

15 min OEL: 651 mg/m<sup>3</sup> 15 minutes.

15 min OEL: 150 ppm 15 minutes.

8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.

**CA British Columbia Provincial (Canada, 7/2016).**

TWA: 100 ppm 8 hours.

STEL: 150 ppm 15 minutes.

**CA Québec Provincial (Canada, 1/2014).**

TWAEV: 100 ppm 8 hours.

TWAEV: 434 mg/m<sup>3</sup> 8 hours.

STEV: 150 ppm 15 minutes.

STEV: 651 mg/m<sup>3</sup> 15 minutes.

**CA Ontario Provincial (Canada, 7/2015).**

STEL: 150 ppm 15 minutes.

TWA: 100 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 150 ppm 15 minutes.

TWA: 100 ppm 8 hours.

Ethylbenzene

**CA Alberta Provincial (Canada, 4/2009).**

8 hrs OEL: 100 ppm 8 hours.

## Section 8. Exposure controls/personal protection

	<p>8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.          15 min OEL: 543 mg/m<sup>3</sup> 15 minutes.          15 min OEL: 125 ppm 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 7/2016).</b>          TWA: 20 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 7/2015).</b>          TWA: 20 ppm 8 hours.</p> <p><b>CA Québec Provincial (Canada, 1/2014).</b>          TWAEV: 100 ppm 8 hours.          TWAEV: 434 mg/m<sup>3</sup> 8 hours.          STEV: 125 ppm 15 minutes.          STEV: 543 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b>          STEL: 125 ppm 15 minutes.          TWA: 100 ppm 8 hours.</p>
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### Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Acetone	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.
Propane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 ppm 8 hours.
n-Butyl Acetate	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Butane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 ppm 8 hours.
Xylene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Ethylbenzene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> 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. 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.

**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.

## Section 8. Exposure controls/personal protection

### 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 anti-static 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** : 7
- Melting point** : Not available.
- Boiling point** : 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 (flammable) limits** : Lower: 0.9%  
Upper: 12.8%
- Vapor pressure** : 101.3 kPa (760 mm Hg) [at 20°C]
- Vapor density** : 1.55 [Air = 1]
- Relative density** : 0.77
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): <0.205 cm<sup>2</sup>/s (<20.5 cSt)
- Molecular weight** : Not applicable.
- Aerosol product**
- Type of aerosol** : Spray
- Heat of combustion** : 27.461 kJ/g

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	: No specific data.
<b>Hazardous decomposition products</b>	: 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
Acetone n-Butyl Acetate	LD50 Oral	Rat	5800 mg/kg	-
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Butane Xylene	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
Ethyl 3-Ethoxypropionate Carbon Black	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>15400 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
n-Butyl Acetate	Skin - Mild irritant	Rabbit	-	395 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Talc	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

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## Section 11. Toxicological information

Ethyl 3-Ethoxypropionate	Skin - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	100 Percent 24 hours 500 milligrams	- -
Ethylbenzene	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	- -	500 milligrams 24 hours 15 milligrams	- -

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Talc	-	3	-
Xylene	-	3	-
Carbon Black	-	2B	-
Ethylbenzene	-	2B	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
n-Butyl Acetate	Category 3	Not applicable.	Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Acetone	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Talc	Category 1	Inhalation	lungs
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Xylene	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

### Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

### 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** : Causes skin irritation. May cause an allergic skin reaction.
- 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** : 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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

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**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**General** : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**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	62072.5 mg/kg
Dermal	21702.7 mg/kg
Inhalation (gases)	94030.5 ppm

**Section 12. Ecological information**

**Toxicity**

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 6900 mg/l Fresh water	Daphnia - Daphnia magna	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 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Persistence and degradability**

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## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
n-Butyl Acetate	-	-	Readily
Xylene	-	-	Readily
Ethylbenzene	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Xylene	-	8.1 to 25.9	low

### Mobility in soil






Soil/water partition coefficient (K<sub>oc</sub>) : 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 hazards	No.	No.	No.	No.	No.

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## Section 14. Transport information

<b>Additional information</b>	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<b>Emergency schedules</b> F-D, S-U
	<b>ERG No.</b> 126	<b>ERG No.</b> 126	<b>ERG No.</b> 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 the IBC Code :** Not available.

**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.)**

Health	*	2
Flammability		3
Physical hazards		0

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**

## Section 16. Other information

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
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	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) (lungs) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

### History

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**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.

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# SAFETY DATA SHEET

1262229

## Section 1. Identification

**Product name** : ACE® Water-Based APWA Marking Paint  
Brilliant Red

**Product code** : 1262229

**Other means of identification** : Not available.

**Product type** : Aerosol.

**Relevant identified uses of the substance or mixture and uses advised against**  
Not applicable.

**Manufacturer** : Mfd. for:  
ACE HARDWARE COPORATION  
Oak Brook, IL 60521

**Emergency telephone number of the company** : (216) 566-2917

**Product Information Telephone Number** : Not available.

**Regulatory Information Telephone Number** : (216) 566-2902

**Transportation Emergency Telephone 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  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and 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 toxicity: 34.7%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

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## Section 2. Hazards identification

<b>Hazard statements</b>	: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure.
<b>Precautionary statements</b>	
<b>General</b>	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. 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.
<b>Response</b>	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. 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. 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. Wash contaminated clothing 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.
<b>Storage</b>	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
<b>Disposal</b>	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations. 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 upright in a cool, dry place. Do not discard empty can in trash compactor.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.

### CAS number/other identifiers

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## Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Propane	13.2	74-98-6
Toluene	8.0	108-88-3
Hexane	6.3	110-54-3
Butane	6.2	106-97-8
Xylene	5.5	1330-20-7
Lt. Aliphatic Hydrocarbon Solvent	4.0	64742-89-8
2-Methylpentane	2.9	107-83-5
3-Methylpentane	1.1	96-14-0
Ethylbenzene	1.0	100-41-4

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 or the environment 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. 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 and 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. Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms



## 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  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
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.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Extremely flammable aerosol. 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. Runoff to sewer may create fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

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## 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 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 specialised 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).

### 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.

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## Section 7. Handling and storage

**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.

**Conditions for safe storage, including any incompatibilities** : 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Propane	<p><b>NIOSH REL (United States, 10/2013).</b>            TWA: 1000 ppm 10 hours.            TWA: 1800 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b>            TWA: 1000 ppm 8 hours.            TWA: 1800 mg/m<sup>3</sup> 8 hours.</p>
Toluene	<p><b>OSHA PEL Z2 (United States, 2/2013).</b>            TWA: 200 ppm 8 hours.            CEIL: 300 ppm            AMP: 500 ppm 10 minutes.</p> <p><b>NIOSH REL (United States, 10/2013).</b>            TWA: 100 ppm 10 hours.            TWA: 375 mg/m<sup>3</sup> 10 hours.            STEL: 150 ppm 15 minutes.            STEL: 560 mg/m<sup>3</sup> 15 minutes.</p>
Hexane	<p><b>ACGIH TLV (United States, 4/2014).</b>            TWA: 20 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 4/2014).</b>  <b>Absorbed through skin.</b>            TWA: 50 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b>            TWA: 50 ppm 10 hours.            TWA: 180 mg/m<sup>3</sup> 10 hours.</p>
Butane	<p><b>OSHA PEL (United States, 2/2013).</b>            TWA: 500 ppm 8 hours.            TWA: 1800 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b>            TWA: 800 ppm 10 hours.            TWA: 1900 mg/m<sup>3</sup> 10 hours.</p>
Xylene	<p><b>ACGIH TLV (United States, 4/2014).</b>            STEL: 1000 ppm 15 minutes.</p> <p><b>ACGIH TLV (United States, 4/2014).</b>            TWA: 100 ppm 8 hours.            TWA: 434 mg/m<sup>3</sup> 8 hours.            STEL: 150 ppm 15 minutes.            STEL: 651 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 2/2013).</b>            TWA: 100 ppm 8 hours.            TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
2-Methylpentane	<p><b>ACGIH TLV (United States, 4/2014).</b>            TWA: 500 ppm 8 hours.            TWA: 1760 mg/m<sup>3</sup> 8 hours.            STEL: 1000 ppm 15 minutes.</p>

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## Section 8. Exposure controls/personal protection

3-Methylpentane	<p>STEL: 3500 mg/m<sup>3</sup> 15 minutes.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 350 mg/m<sup>3</sup> 10 hours.  CEIL: 510 ppm 15 minutes.  CEIL: 1800 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 4/2014).</b>  TWA: 500 ppm 8 hours.  TWA: 1760 mg/m<sup>3</sup> 8 hours.  STEL: 1000 ppm 15 minutes.  STEL: 3500 mg/m<sup>3</sup> 15 minutes.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 350 mg/m<sup>3</sup> 10 hours.  CEIL: 510 ppm 15 minutes.  CEIL: 1800 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 4/2014).</b>  TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 435 mg/m<sup>3</sup> 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 2/2013).</b>  TWA: 100 ppm 8 hours.  TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
Ethylbenzene	<p>STEL: 3500 mg/m<sup>3</sup> 15 minutes.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 350 mg/m<sup>3</sup> 10 hours.  CEIL: 510 ppm 15 minutes.  CEIL: 1800 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 4/2014).</b>  TWA: 500 ppm 8 hours.  TWA: 1760 mg/m<sup>3</sup> 8 hours.  STEL: 1000 ppm 15 minutes.  STEL: 3500 mg/m<sup>3</sup> 15 minutes.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 350 mg/m<sup>3</sup> 10 hours.  CEIL: 510 ppm 15 minutes.  CEIL: 1800 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 4/2014).</b>  TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>  TWA: 100 ppm 10 hours.  TWA: 435 mg/m<sup>3</sup> 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 2/2013).</b>  TWA: 100 ppm 8 hours.  TWA: 435 mg/m<sup>3</sup> 8 hours.</p>

### 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 anti-static 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** : Use a properly fitted, air-purifying or air-fed 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

### Appearance

- 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** : 9.1 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 0.9%  
Upper: 9.5%
- Vapor pressure** : 13.5 kPa (101.325 mm Hg) [at 20°C]
- Vapor density** : 1 [Air = 1]
- Relative density** : 0.82
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (room temperature): <0.205 cm<sup>2</sup>/s (<20.5 cSt)  
Kinematic (40°C (104°F)): <0.205 cm<sup>2</sup>/s (<20.5 cSt)

### Aerosol product

- Type of aerosol** : Spray
- Heat of combustion** : 0.00002039 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).

*Date of issue/Date of revision* : 5/1/2015. *Date of previous issue* : No previous validation. *Version* : 1 8/15

## Section 10. Stability and reactivity

**Incompatible materials** : No specific data.

**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
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
	Xylene	LC50 Inhalation Gas.	Rat	5000 ppm
		LD50 Oral	Rat	4300 mg/kg
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-	
				100 milligrams		
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-	
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-	
	Skin - Mild irritant	Rabbit	-	435 milligrams	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-	
Hexane	Skin - Moderate irritant	Rabbit	-	500 milligrams	-	
	Eyes - Mild irritant	Rabbit	-	10 milligrams	-	
	Eyes - Mild irritant	Rabbit	-	87 milligrams	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-	
	Xylene	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
		Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Ethylbenzene	Skin - Moderate irritant	Rabbit	-	100 Percent	-	
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-	

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

**Date of issue/Date of revision** : 5/1/2015. **Date of previous issue** : No previous validation. **Version** : 1 9/15

## Section 11. Toxicological information

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Xylene	-	3	-
Ethylbenzene	-	2B	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
3-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 2	Not determined	Not determined
Toluene	Category 2	Not determined	Not determined
Hexane	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Xylene	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
3-Methylpentane	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

### Aspiration hazard

*Date of issue*/*Date of revision* : 5/1/2015. *Date of previous issue* : No previous validation. *Version* : 1 10/15



## Section 11. Toxicological information

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Hexane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
3-Methylpentane	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and 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. Irritating to mouth, throat and stomach.

### 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:  
irritation  
redness  
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 effects** : Not available.

**Potential delayed effects** : Not available.

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### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : 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** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	4702.4 mg/kg
Inhalation (gases)	59134.3 ppm

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
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
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
Hexane	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata
Acute EC50 3600 µg/l Fresh water		Algae - Pseudokirchneriella subcapitata	96 hours
Acute EC50 6530 µg/l Fresh water		Crustaceans - Artemia sp. - Nauplii	48 hours
Acute EC50 2930 µg/l Fresh water		Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 4200 µg/l Fresh water		Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

**Date of issue/Date of revision** : 5/1/2015. **Date of previous issue** : No previous validation. **Version** : 1 12/15

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Xylene	-	-	Readily
Ethylbenzene	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Toluene	-	90	low
Hexane	-	501.187	high
Xylene	-	8.1 to 25.9	low
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high

### Mobility in soil






Soil/water partition coefficient (K<sub>oc</sub>) : 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 hazards	No.	No.	No.	No.	No.

Date of issue/Date of revision : 5/1/2015. Date of previous issue : No previous validation. Version : 1 13/15

## Section 14. Transport information

<b>Additional information</b>	<b>Special provisions</b> LIMITED QUANTITY	<b>Special provisions</b> LIMITED QUANTITY	<b>Special provisions</b> (ERG#126)	<b>Special provisions</b> LIMITED QUANTITY	<b>Emergency schedules (EmS)</b> LIMITED QUANTITY, F-D, S-U
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**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 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** :

**State regulations**

**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.)**

Health	*	2
Flammability		3
Physical hazards		0

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.

The customer is responsible for determining the PPE code for this material.

## Section 16. Other information

### [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. 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.



# Material Safety Data Sheet

## The Armor All/STP Products Company

44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810  
Tel. 1-203-205-2900

### 1. Product And Company Identification

**Product Name:** ARMOR ALL® Wheel Protectant Aerosol

**Responsible Party:** The Armor All/STP Products Company  
44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810

**Information Phone Number:** +1 203-205-2900

**Emergency Phone Number:**

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada)  
For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for  
Outside US and Canada (call collect)

**MSDS Date Of Preparation:** 03/21/12

**Product Use:** Automotive maintenance product – For consumer and professional use

### 2. Hazards Identification

#### EMERGENCY OVERVIEW WARNING!

Flammable aerosol. Contents under pressure. Combustible liquid and vapor. Harmful if swallowed. May cause mild eye, and skin irritation. Mists may cause respiratory irritation. Avoid eye contact. Keep away from heat, sparks and all other sources of ignition.

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Liquefied Petroleum Gas (propane, isobutane)	74-98-6 / 75-28-5	40-60%
Decamethylcyclopentasiloxane	541-02-6	40-60%
Triethoxyoctylsilane	2943-75-1	1-5%

### 4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problems or irritation persist.

**Skin Contact:** Remove contaminated clothing. Wash exposed skin with soap and water. If skin irritation or redness develops, seek medical attention.

**Eye Contact:** Flush eyes with large amounts of water. If irritation or other symptoms persist, seek medical attention.

**Ingestion:** Get medical assistance by calling an emergency room or poison control center. Never give anything by mouth to a person who is unconscious or drowsy.

### 5. Firefighting Measures

**Extinguishing Media:** Use water fog, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.



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**Special Fire Fighting Procedures:** 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 cans.

**Unusual Fire Hazards:** Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to heat and flames can cause them to rupture often with violent force. Combustible liquid and vapor.

**Hazardous Combustion Products:** Burning may produce carbon monoxide, carbon dioxide, silicone dioxide and formaldehyde.

### 6: Accidental Release Measures

**Personal Precautions:** Eliminate all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing and equipment.

**Environmental Precautions:** Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

**Methods for Containment and Clean-Up:** Place leaking can in a pail in a well ventilated area away from ignition sources until pressure has dissipated. Collect liquid using non-combustible absorbents and place into a suitable container for disposal.

### 7. Handling and Storage

Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. 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 or incinerate containers.

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

### 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Propane	1000 ppm TWA OSHA PEL
	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Isobutane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Decamethylcyclpentasiloxane	10 ppm TWA Manufacturer recommended
Triethoxyoctylsilane	None Established

**Ventilation:** General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits. Use explosion proof equipment where required.

**Respiratory Protection:** None under normal use conditions. For operations where the TLV may be exceeded, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134; all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Impervious gloves are recommended for prolonged or repeated skin contact.



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**Eye Protection:** Safety glasses are recommended if eye contact is possible.

**Other Protective Equipment/Clothing:** Appropriate protective clothing as needed to prevent prolonged/ repeated skin contact.

## 9. Physical and Chemical Properties

**Appearance And Odor:** Liquid in aerosol can.

<b>pH:</b> Not determined	<b>Specific Gravity:</b> ~0.96
<b>Boiling Point:</b> Not determined	<b>Vapor Pressure:</b> Not determined
<b>Freezing Point:</b> Not determined	<b>Vapor Density:</b> Not determined
<b>Solubility in Water:</b> Slight	<b>Percent Volatile:</b> Not determined
<b>Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Viscosity:</b> Not available
<b>Flash Point:</b> 174.2°F (79°C) (For liquid)	<b>Autoignition Temp:</b> Not determined
<b>Flammability Limits:</b> LEL: 1.8% (Liquefied Petroleum Gas)	UEL: 9.5% (Liquefied Petroleum Gas)
<b>Flame extension:</b> 14" with flash back	

## 10. Stability and Reactivity

**Stability:** Stable

**Conditions To Avoid:** Keep away from excessive heat, sparks and open flames. Containers may rupture at temperatures > 120°F (48.8°C)

**Incompatibility:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Burning may produce carbon monoxide, carbon dioxide, silicone dioxide and formaldehyde.

## 11. Toxicological Information

### Acute Hazards:

**Inhalation:** Mist can irritate the throat and respiratory tract. Prolonged inhalation of propellant may cause symptoms of central nervous system depression including headache, dizziness, nausea, loss of balance, and drowsiness.

**Skin Contact:** May cause mild skin irritation with redness, itching and burning of the skin.

**Eye Contact:** Direct contact may cause mild eye irritation with redness, and tearing.

**Ingestion:** If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing large amounts may be harmful.

**Chronic Hazards:** Exposures to decamethylcyclopentasiloxane has caused the following effects in laboratory animals: Liver enlargement due to an increase in metabolizing enzymes. When the exposure was stopped the livers returned to normal.

**Medical Conditions Aggravated By Exposure:** None known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or ARMOR ALL® Wheel Protectant Aerosol



## ® Material Safety Data Sheet

### The Armor All/STP Products Company

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OSHA. Decamethylcyclpentasiloxane: A statistically significant increase in the trend for uterine endometrial tumors was observed in female rats exposed for 24 months at the highest dose level of 160 ppm.

### Acute Toxicity Values:

Propane	LC50 Rat inhalation >800,000 ppm
Isobutane	LC50 Rat inhalation 658 mg/l/4 hr
Decamethylcyclpentasiloxane	LC50 Rat inhalation >2700 mg/m <sup>3</sup> /4 hr; LD50 Rat oral >24134 mg/kg; LD50 Rabbit Dermal 16 mL/kg
Triethoxyoctylsilane	LD50 Rat oral 10.06 mL/kg; LD50 Rabbit Dermal 5.91 mL/kg

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

## 14. Transport Information

### **DOT Hazardous Materials Description:**

Proper Shipping Name: Consumer Commodity  
UN Number: None  
Hazard Class/Packing Group: ORM-D  
Labels Required: None required

### **Canadian TDG Hazardous Materials Description:**

Proper Shipping Name: Consumer Commodity  
UN Number: None  
Hazard Class/Packing Group: None  
Labels Required: None

**IMDG Dangerous Goods Description:** UN1950, Aerosols, 2.1

## 15. Regulatory Information

### United States:

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA Section 103:** This product has no RQ. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Fire Hazard, Sudden Release of Pressure





## ® Material Safety Data Sheet

### **The Armor All/STP Products Company**

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**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

### **Canada:**

**Canadian WHMIS Classification:** Class B-5 (Flammable Aerosol)

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian DSL.

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

### **16. Other Information**

NFPA Rating (NFPA 704):	Health: 1	Fire: 4	Instability: 0
HMIS Rating:	Health: 1	Fire: 4	Reactivity: 0

REVISION SUMMARY: Changes to section 2.

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH



# SAFETY DATA SHEET

## 1. Identification

**Product number** 19951  
**Product identifier** **C-Thru Glass Cleaner**  
**Company information** Lawson Products, Inc.  
 8770 W. Bryn Mawr Ave.  
 Chicago, IL 60631 United States  
**Company phone** 773-304-5050  
**Emergency telephone US** 888-426-4851  
**Version #** 01  
**Recommended use** Cleaner  
**Recommended restrictions** None known.

## 2. Hazard(s) identification

**Physical hazards** Flammable aerosols Category 1  
 Gases under pressure Liquefied gas  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger  
**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

### 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. Store in a well-ventilated place. 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	%
Isopropyl Alcohol		67-63-0	2.5 - 10
2-Propanol, 1-propoxy-		1569-01-3	1 - 2.5
Butane		106-97-8	1 - 2.5
Propane		74-98-6	1 - 2.5
Anhydrous Ammonia		7664-41-7	0.1 - 1
Other components below reportable levels			90 - 100

SDS US

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	In the unlikely event of swallowing contact a physician or poison control center.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
<b>General fire hazards</b>	Extremely flammable aerosol.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: 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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	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. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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**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 in a well-ventilated place. Refrigeration recommended. 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
Anhydrous Ammonia (CAS 7664-41-7)	PEL	35 mg/m3
		50 ppm
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3
		1000 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Anhydrous Ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Anhydrous Ammonia (CAS 7664-41-7)	STEL	27 mg/m3
		35 ppm
	TWA	18 mg/m3
		25 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 ppm

**Biological limit values**

**ACGIH Biological Exposure 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).

**Hand protection** Wear appropriate chemical resistant gloves.

**Skin protection**

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<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol. Liquefied gas.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	212 °F (100 °C) estimated
<b>Flash point</b>	-6.5 °F (-21.4 °C) estimated
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	23.01 psig @70F estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	0.973 g/cm3 estimated
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	0.97 g/cm3 estimated
<b>Flammability class</b>	Flammable IB estimated
<b>Heat of combustion</b>	2.34 kJ/g estimated
<b>Heat of combustion (NFPA 30B)</b>	2.23 kJ/g estimated
<b>Percent volatile</b>	98.04 % estimated
<b>Specific gravity</b>	0.973 estimated
<b>VOC (Weight %)</b>	5.91 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.

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<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
2-Propanol, 1-propoxy- (CAS 1569-01-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg 3775 mg/kg, 24 Hours 4.29 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 1725 ppm, 6 Hours
<i>Oral</i>		
LD50	Mouse	260 mg/kg
	Rat	2490 mg/kg 2.83 ml/kg
Anhydrous Ammonia (CAS 7664-41-7)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	4230 ppm, If <1L: Consumer Commodity Hours
	Rat	7939 mg/m3 4000 ppm, If <1L: Consumer Commodity Hours
<i>Oral</i>		
LD50	Rat	350 mg/kg
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l
Isopropyl Alcohol (CAS 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	16.4 ml/kg, 24 Hours

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Components	Species	Test Results
<i>Inhalation</i>		
LC50	Rat	> 10000 ppm, 6 Hours
<i>Oral</i>		
LD50	Rat	5.84 g/kg
Propane (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l 658 mg/l/4h

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

**12. Ecological information**

**Ecotoxicity** 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.

Components	Species	Test Results
Anhydrous Ammonia (CAS 7664-41-7)		
<b>Aquatic</b>		
Fish	LC50	Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ) 0.43 - 0.47 mg/l, 96 hours
Isopropyl Alcohol (CAS 67-63-0)		
<b>Aquatic</b>		
Algae	IC50	Algae 1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia 13299 mg/L, 48 Hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 1400 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**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)**

2-Propanol, 1-propoxy-	0.621
Butane	2.89

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**Partition coefficient n-octanol / water (log Kow)**

Isopropyl Alcohol	0.05
Propane	2.36

**Mobility in soil** No data available.

**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** Consult authorities before disposal. 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** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

**14. Transport information****DOT**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	None
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.
<b>Packaging Exceptions</b>	LTD QTY

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1

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**Subsidiary risk** -  
**Label(s)** None  
**Packing group** Not applicable.  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** Not available.  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. 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 the IBC Code** Not applicable.  
**DOT**



IATA; IMDG



## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
 All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Anhydrous Ammonia (CAS 7664-41-7) Listed.

### SARA 304 Emergency release notification

Anhydrous Ammonia (CAS 7664-41-7) 100 LBS

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### 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

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Anhydrous Ammonia	7664-41-7	100	500 lbs		

**SARA 311/312 Hazardous chemical** No

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**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Anhydrous Ammonia	7664-41-7	0.1 - 1

**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)**

Anhydrous Ammonia (CAS 7664-41-7)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

Anhydrous Ammonia (CAS 7664-41-7)

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**

Anhydrous Ammonia (CAS 7664-41-7)

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**

Anhydrous Ammonia (CAS 7664-41-7)

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

**US. Rhode Island RTK**

Anhydrous Ammonia (CAS 7664-41-7)

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	Yes
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 (PICCS)	Yes
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** 05-12-2015

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**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.

**Revision Information**

Composition / Information on Ingredients: Component Summary

Fire-fighting measures: Specific methods

GHS: Classification

# Safety Data Sheet



Issue Date: 02-Sept.-2014

Revision Date: 13-Aug.-2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** CARQUEST General Purpose Lithium Grease

### Other means of identification

**SDS #** CQ-018

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricating grease

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Warren Oil Company  
915 E. Jefferson Ave.  
West Memphis, AR 72301

### Emergency Telephone Number

**Company Phone Number** 1-800-428-9284  
**Emergency Telephone (24 hr)** CHEMTREC 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance:** Dark Amber

**Physical State:** Semi-solid to solid

**Odor:** Mild petroleum

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

### Signal Word

**Warning**

### Hazard Statements

Causes skin irritation  
Causes serious eye irritation

Not applicable.



### Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements – 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: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse

If skin irritation occurs: Get medical advice/attention

**Other Hazards**

Harmful to aquatic life with long lasting effects

**Unknown Acute Toxicity**

2.25% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	70-80
Residual oils (petroleum), hydrotreated	64742-57-0	1-10
Zinc Alkyl Dithiophosphate	68649-42-3	<5
Lithium Hydroxide Solution	1310-66-3	<5
Petroleum Asphalt	8052-42-4	<1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Inhalation</b>	Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.
<b>Ingestion</b>	DO NOT induce vomiting unless directed by a physician. Rinse out mouth with water. Never give anything by mouth to a person who is not fully conscious. Allow small quantities to pass through the digestive system. If large amounts are swallowed or irritation of discomfort, seek medical attention immediately.

**Most important symptoms/effects**

<b>Symptoms</b>	Causes skin irritation. Causes serious eye irritation. No significant adverse health effects are expected to occur upon short term exposure at ambient temperatures. At elevated temperatures, product vapor may cause respiratory tract irritation. Repeated or prolonged overexposure to product mists can result in respiratory tract inflammation and an increased risk of infection. This material can cause a laxative effect. If swallowed in large quantities, this material can obstruct the intestine.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Skin: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal. Ingestion: Check for possible bowel obstruction with ingestion of large quantities of material.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing media

Use dry chemical, foam, carbon dioxide or water fog.

**Unsuitable extinguishing media** Not determined.

### Specific Hazards Arising from the Chemical

Water or foam may cause frothing. Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.

**Hazardous Combustion Products** Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur, phosphorus, zinc and/or zinc.

### 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. Fight the fire from a safe distance in a protected location. Open any masses with a water stream to prevent re-ignition due to smoldering. Cool surface with water fog. Molten material can form flaming droplets if ignited. Use of water on product above 100°C (212°F) can cause product to expand with explosive force. Do not allow liquid runoff to enter sewers or public waters.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material.

**Environmental Precautions** See Section 12 for additional Ecological Information. Prevent entry into waterways or sewers.

### Methods and material for containment and cleaning up

**Methods for Containment** Stop leak if you can do so without risk.

**Methods for Clean-Up** For small spills, absorb or cover with dry earth, sand or other inert non-combustible absorbent material and place in to waste containers for lateral disposal. Contain large spills to maximize product recovery or disposal. In urban area, clean up spill as soon as possible. In natural environments, seek clean up advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Avoid water contamination and elevated temperatures to minimize product degradation. Empty containers may contain product residue that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store only in approved containers. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing product in direct sunlight for extended periods of time.

**Incompatible Materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5	TWA: 5 mg/m <sup>3</sup> (oil mist) STEL: 10 mg/m <sup>3</sup> (oil mist)	TWA: 5 mg/m <sup>3</sup> (oil mist) STEL: none estab.	TWA: none estab. STEL: none estab.
Petroleum Asphalt 8052-42-4	TWA: 0.5 mg/m <sup>3</sup> benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m <sup>3</sup> fume 15 min

### Appropriate engineering controls

**Engineering Controls** Ventilation controls are not normally required under anticipated conditions of use. Provide exhaust ventilation or other engineering controls if airborne mists or vapors concentrations exceed recommended occupational exposure limits listed. An eye wash station and safety shower should be located near work station.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses equipped with side shields are recommended as a minimum protection in industrial settings. Wear goggles if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.

**Skin and Body Protection** Use gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.

**Respiratory Protection** The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Semi-solid to solid	<b>Odor</b>	Mild petroleum
<b>Appearance</b>	Dark Amber	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Dark Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Not available	
<b>Melting Point/Freezing Point</b>	Not available	
<b>Boiling Point/Boiling Range</b>	Not available	
<b>Flash Point</b>	238 °C / 460 °F	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Not determined	

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Upper Flammability Limits	Not available	@ 20°C (68°F)
Lower Flammability Limits	Not available	(Air = 1)
Vapor Pressure	<0.001 kPa (<0.01 mmHg)	(Water = 1)
Vapor Density	>10	
Specific Gravity	<1	
Water Solubility	Negligible solubility in cold water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not available	
Decomposition Temperature	Not determined	
Kinematic Viscosity	187 cSt	@ 40°C (104°F)
Dynamic Viscosity	Not determined	
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**            Not expected to occur.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur, phosphorus, zinc and/or nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**                                    Causes serious eye irritation.

**Skin Contact**                                   Causes skin irritation.

**Inhalation**                                     Do not inhale.

**Ingestion**                                      Do not ingest.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Castor Oil – (flake or solid) 8001-78-3	> 10 g/kg ( Rat )	-	-
Lithium Hydroxide Solution 1310-66-3	= 120 mg/kg ( Rat )	-	= 0.96 mg/L ( Rat ) 4 h
Petroleum Asphalt 8052-42-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-



**Information on physical, chemical and toxicological effects**

**Symptoms** Please see Section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined

**Unknown Acute Toxicity** 2.25% of the mixture consists of ingredient(s) of unknown toxicity.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5		5000: 96 h Onocorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Hydrogenated Castor Oil – (flake or solid) 8001-78-3		10000: 96 h Brachydanio rerio mg/L LC50		
Zinc Alkyl Dithiophosphate 68649-42-3		1.0 – 5.0: 96 h Pimepphales promelas mg/L LC50 static 10.0 – 35.0: 96 h Pimepphales promelas mg/L LC50 semi-static		1 – 1.5: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Petroleum Asphalt 8052-42-4	>6

**Other adverse effects**

Not determined.

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

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Zinc Alkyl Dithiophosphate 68649-42-3	Toxic

**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**  
**Marine Pollutant** This material may meet the definition of a marine pollutant.

**15. REGULATORY INFORMATION**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	Present	X		Present		Present	X	Present	X	X
Residual oils (petroleum), hydrotreated	Present	X		Present		Present	X	Present	X	X
Zinc Alkyl Dithiophosphate	Present	X		Present			X	Present	X	X
Lithium Hydroxide Solution						Present	X		X	X
Petroleum Asphalt	Present	X		Present		Present	X	Present	X	X

**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 313**

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
Zinc Alkyl Dithiophosphate – 68649-42-3	68649-42-3	<5	1.0

**CWA (Clean Water Act)**

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Zinc Alkyl Dithiophosphate		X		

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc Alkyl Dithiophosphate 68649-42-3	X		X
Lithium Hydroxide Solution 1310-66-3	X		
Petroleum Asphalt 8052-42-4	X	X	X

<b>16. OTHER INFORMATION</b>
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<b>NFPA</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	1	0	Not determined
<b>HMIA</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	1	0	Not determined

**Issue Date:** 02-Sept.-2014

**Revision Date:** 13-Aug.-2015

**Revision Note:** New format

**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

## 1. Identification

<b>Product identifier</b>	<b>Carquest Glass Cleaner</b>
<b>Other means of identification</b>	
<b>Product code</b>	1045, CRC# 09624
<b>Recommended use</b>	Glass cleaner
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufactured or sold by:</b>	
<b>Company name</b>	CRC Industries, Inc.
<b>Address</b>	885 Louis Dr. Warminster, PA 18974 US
<b>Telephone</b>	
<b>General Information</b>	215-674-4300
<b>Technical Assistance</b>	800-521-3168
<b>Customer Service</b>	800-272-4620
<b>24-Hour Emergency (CHEMTREC)</b>	800-424-9300 (US) 703-527-3887 (International)
<b>Website</b>	www.crcindustries.com

## 2. Hazard(s) identification

<b>Physical hazards</b>	Gases under pressure	Liquefied gas
<b>Health hazards</b>	Reproductive toxicity	Category 2
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Contains gas under pressure; may explode if heated. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. Use with adequate ventilation. 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. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
<b>Response</b>	If exposed or concerned: Get medical attention.
<b>Storage</b>	Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause can to burst.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

## Supplemental information

9.7% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 9.7% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

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### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	80 - 90
Liquefied Petroleum Gas		68476-86-8	5 - 10
2-Butoxyethanol		111-76-2	1 - 3
Ethanol		64-17-5	1 - 3
Ammonia		7664-41-7	< 1
Methanol		67-56-1	< 0.2

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

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<b>Inhalation</b>	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a POISON CENTER or doctor/physician.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	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

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<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	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.

## 6. Accidental release measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. 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.
<b>Environmental precautions</b>	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 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. 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 get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

### Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. 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
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m <sup>3</sup> 50 ppm
Ammonia (CAS 7664-41-7)	PEL	35 mg/m <sup>3</sup> 50 ppm
Ethanol (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup> 1000 ppm
Methanol (CAS 67-56-1)	PEL	260 mg/m <sup>3</sup> 200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Ammonia (CAS 7664-41-7)	STEL TWA	35 ppm 25 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CAS 67-56-1)	STEL TWA	250 ppm 200 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> 5 ppm
Ammonia (CAS 7664-41-7)	STEL TWA	27 mg/m <sup>3</sup> 35 ppm 18 mg/m <sup>3</sup> 25 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Methanol (CAS 67-56-1)	STEL TWA	325 mg/m <sup>3</sup> 250 ppm 260 mg/m <sup>3</sup> 200 ppm

## Biological limit values

### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)	Skin designation applies.
Methanol (CAS 67-56-1)	Skin designation applies.

### US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

### US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
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## 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 protective gloves such as: Nitrile. Rubber.

**Other** Wear appropriate chemical resistant clothing.

### Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

## General hygiene considerations

When using, do not eat, drink or 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** Liquid.

**Form** Aerosol.

**Color** Clear.

**Odor** Ammoniacal.

**Odor threshold** Not available.

**pH** 10.5

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** 212 °F (100 °C) estimated

**Flash point** None (Tag Closed Cup)

**Evaporation rate** Slow.

<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1.3 % estimated
<b>Flammability limit - upper (%)</b>	25 % estimated
<b>Vapor pressure</b>	280.3 hPa estimated
<b>Vapor density</b>	> 1 (air = 1)
<b>Relative density</b>	0.97 estimated
<b>Solubility (water)</b>	Soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	446 °F (230 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	Not available.
<b>Percent volatile</b>	99.6 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product	Species	Test Results
Carquest Glass Cleaner		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	14759.4121 mg/kg estimated
<i>Inhalation</i>		
LC50	Rat	7998.0244 mg/l, 4 hours estimated
<i>Oral</i>		
LD50	Rat	14201.8389 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.



<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Suspected of damaging fertility or the unborn child.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.  2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.  Prolonged exposure may cause chronic effects.

**12. Ecological information**

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
<b>Carquest Glass Cleaner</b>		
<b>Aquatic</b>		
Fish	LC50	Fish 6294.9312 mg/l, 96 hours estimated
<i>Acute</i>		
Crustacea	EC50	Daphnia 202.6171 ppm, 48 hours estimated
<b>Components</b>		
<b>Species</b>		
<b>Test Results</b>		
2-Butoxyethanol (CAS 111-76-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 1550 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) >= 1000 mg/l, 96 hours
Ammonia (CAS 7664-41-7)		
<b>Aquatic</b>		
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha) 0.43 - 0.47 mg/l, 96 hours
Ethanol (CAS 64-17-5)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Green algae (Chlorella kessleri) 1450 mg/l
Crustacea	EC50	Water flea (Daphnia magna) 11.2 mg/l, 48 hours 7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 15300 mg/l, 96 hours > 100 mg/l, 96 hours > 100 mg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss) 13000 - 15300 mg/l, 96 hours
Methanol (CAS 67-56-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) > 10000 mg/l, 48 hours

Components	Species	Test Results
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)**

2-Butoxyethanol	0.81, log Pow
Ethanol	-0.31
Methanol	-0.77

**Mobility in soil** No data available.

**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** This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Consult authorities before disposal. 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** Not regulated.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, non-flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.2
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.2
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Not available.
<b>Special provisions</b>	Not available.
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

#### IATA

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, non-flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	2L
<b>Special precautions for user</b>	Not available.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

#### IMDG

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS, LIMITED QUANTITY
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.

**Environmental hazards**  
**Marine pollutant** No.  
**EmS** Not available.  
**Special precautions for user** Not available.

## 15. Regulatory information

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**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

2-Butoxyethanol (CAS 111-76-2)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

2-Butoxyethanol (CAS 111-76-2)

**CERCLA Hazardous Substances: Reportable quantity**

Not listed.

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**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312** Immediate Hazard - No  
**Hazard categories** Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - Yes  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

**US. New Jersey Worker and Community Right-to-Know Act**

2-Butoxyethanol (CAS 111-76-2)  
Ammonia (CAS 7664-41-7)  
Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)

**US. Massachusetts RTK - Substance List**

2-Butoxyethanol (CAS 111-76-2)  
Ethanol (CAS 64-17-5)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ammonia (CAS 7664-41-7)  
Methanol (CAS 67-56-1)  
2-Butoxyethanol (CAS 111-76-2)  
Ethanol (CAS 64-17-5)

**US. Rhode Island RTK**

2-Butoxyethanol (CAS 111-76-2)  
Ammonia (CAS 7664-41-7)  
Methanol (CAS 67-56-1)

## 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

1,4-Dioxane (CAS 123-91-1)	Listed: January 1, 1988
Ethylene oxide (CAS 75-21-8)	Listed: July 1, 1987
Methyl isobutyl ketone (CAS 108-10-1)	Listed: November 4, 2011

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8)	Listed: August 7, 2009
Methanol (CAS 67-56-1)	Listed: March 16, 2012

### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8)	Listed: February 27, 1987
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### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8)	Listed: August 7, 2009
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## Volatile organic compounds (VOC) regulations

### EPA

VOC content (40 CFR 51.100(s)) 9.6 %

Consumer products (40 CFR 59, Subpt. C) Compliant

### State

Consumer products This product is regulated as a Glass Cleaner (aerosol). This product is compliant for use in all 50 states.

VOC content (CA) 9.6 %

VOC content (OTC) 9.6 %

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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	07-24-2014
Prepared by	Allison Cho
Version #	01
Further information	CRC # 411A
HMIS® ratings	Health: 1* Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 0 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.

# Safety Data Sheet



Issue Date: 22-Dec-2014

Revision Date: 18-May-2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** CARQUEST SAE GL-5 Gear Oils

**Other means of identification** Premium SAE 80W-90, Premium SAE 85W-140, Full Synthetic SAE 75W-90, Full Synthetic SAE 75W-140 & Synthetic Blend SAE 75W-90

**SDS #** CQ-013

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant.

### Details of the supplier of the safety data sheet

#### Supplier Address

Warren Oil Company  
915 E. Jefferson Ave.  
West Memphis, AR 72301

### Emergency Telephone Number

**Company Phone Number** 1-800-428-9284

**Emergency Telephone (24 hr)** CHEMTREC 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear amber liquid

**Physical State** Liquid

**Odor** Petroleum

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	50-60
Residual oils (petroleum), solvent refined	64742-01-4	10-20
Distillates, petroleum, solvent refined heavy paraffinic	64741-88-4	10-20

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

<b>Eye Contact</b>	Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing give artificial respiration, preferably mouth-to-mouth. Call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	If swallowed, do not induce vomiting. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical attention.

**Most important symptoms and effects**

<b>Symptoms</b>	Expected to be a minor eye irritant. Repeated or prolonged skin contact may cause dermatitis.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Dense smoke may be generated while burning.

**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Other oxides.

**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. Avoid breathing smoke and vapor. Water may be used to cool containers exposed to heat or flame.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Use personal protective equipment as required.
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**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Remove sources of ignition. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
<b>Methods for Clean-Up</b>	Take up small spills with absorbent pads. Large spills may be taken up with pump or vacuum.

## 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**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** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes.

**Skin and Body Protection** Wear suitable protective clothing.

**Respiratory Protection** Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use organic vapor respirator with a dust or mist filter.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Petroleum
<b>Appearance</b>	Clear amber liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Not determined	
<b>Melting Point/Freezing Point</b>	Not determined	
<b>Boiling Point/Boiling Range</b>	Not determined	
<b>Flash Point</b>	218.3 °C / 425 °F	ASTM D-92
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	
<b>Upper Flammability Limits</b>	Not established	
<b>Lower Flammability Limit</b>	Not established	
<b>Vapor Pressure</b>	Not determined	
<b>Vapor Density</b>	No data available	
<b>Specific Gravity</b>	0.90	
<b>Water Solubility</b>	insoluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	No data available	



<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	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.

### Conditions to Avoid

Incompatible Materials.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Other oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Do not ingest.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
Residual oils (petroleum), solvent refined 64742-01-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

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.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Residual oils (petroleum), solvent refined 64742-01-4		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**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**

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, hydrotreated heavy paraffinic	Present	X		Present		Present	X	Present	X	X
Residual oils (petroleum), solvent refined	Present	X		Present			X	Present	X	X
Distillates, petroleum, solvent refined heavy paraffinic	Present	X		Present		Present	X	Present	X	X

#### **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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	0	1	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	1	0	Not determined

Issue Date: 29-Oct-2013  
 Revision Date: 18-May-2015  
 Revision Note: New format

**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

### Section 1 – Identification

**Product Identifier:** SuperClean Degreaser and Foaming Degreaser

**Other means of Identification:** Cleaning Solution

*Name and Address of Responsible Parties:*

**SuperClean Brands, LLC**

1380 Corporate Center Curve, Suite 107

Eagan, MN 55121

**Information Telephone #:** 1-651-365-7500

**24 Hr. Emergency Telephone Number:** 1-800-424-9300

**Contract Number:** CCN644158

### Section 2 – Hazards Identification

**Classification of the Chemical:** Clear light purple liquid. Citrus odor.

This material is classified as hazardous under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012).

**Hazardous classification:** Corrosive to Metals – Category 1  
Skin irritation – Category 2  
Eye irritation – Category 2A

**Label elements:**

**Signal Word:** Warning

**Hazard Statements:** Corrosive liquid.  
May cause skin irritation.  
May cause serious eye irritation.

**Precautionary Statements:** Keep only in original container.  
Store in corrosive resistant container with inner liner.  
Absorb spillage to prevent material damage.  
Wash hands thoroughly after handling.  
If on Skin: Wash with plenty of soap and water.

## Section 2 – Hazards Identification (Continued)

If skin irritation occurs get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Wear protective gloves.  
Wear eye protection such as goggles or safety glasses with side shields.  
If in eyes: Rinse cautiously with water for 15 minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists get medical advice/attention.  
Do not eat, drink or smoke when using this product.  
If swallowed: Immediately call a poison center/physician.  
Rinse mouth.  
Dispose of contents/container in accordance with local, state, federal or international regulations.

### Hazard Pictogram(s):



### Other Hazards not otherwise classified:

This product contains 7% ingredients of an unknown acute toxicity. See section 11 for more information.

## Section 3 – Composition/Information on Ingredients

Chemical Name, Common Name	CAS #	Concentration wt/wt(*)
Sodium Metasilicate	6834-92-0	<5
Sodium hydroxide	1310-73-2	<5
Surfactant, blend	Trade secret	1-10

\* Note: The exact concentrations of the chemical(s) above are being withheld as a trade secret.

## Section 4 – First-Aid Measures

### Description of first aid measures:

*Inhalation:* If inhaled remove victim to fresh air and keep at rest. Call a poison center or physician if you feel unwell.

*Skin contact:* Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs get medical advice/attention.

*Eye contact:* If product gets in eyes flush with water for at least 15 minutes. If eye irritation persists seek medical advice/attention.

*Ingestion:* Do NOT induce vomiting unless instructed by medical personal. Never give anything by mouth to an unconscious person. Get medical attention.

### Most important symptoms and effects, both acute and delayed:

May cause skin irritation.

May cause serious eye irritation.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea and burns to the mouth, throat and esophagus.

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

## Section 5 – Fire-Fighting Measures

### Extinguishing media:

*Suitable extinguishing media:* Water fog, Carbon dioxide, Dry chemical, Foam.

*Unsuitable extinguishing media:* Not available.

**Special hazards arising from the substance or mixture:** None known.

**Flammability classification:** Not flammable by OSHA/WHMIS criteria.

**Hazardous combustion products:** Carbon oxides, other unidentified organic compounds.

### Special protective equipment and precautions for firefighters:

*Protective equipment for fire-fighters:* Firefighters should wear proper protective equipment (Bunker gear) and self-contained breathing apparatus with full face operated in positive pressure mode.

## Section 6 – Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures:**

All persons dealing with the clean-up should use the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up.

### **Methods and materials for containment and clean up:**

If possible, prevention measures should be taken to stop any chemical from entering the ground water system. Ventilate the area. Scoop up material and place into suitable container(s). Dispose of according to local, state and federal regulations.

## Section 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. Wear protective gloves and eye/face protection. Adequate ventilation should be supplied. Avoid prolonged contact with skin, eyes and clothing. Keep away from heat. Keep container tightly closed.

### **Conditions for safe storage:**

Store in cool, dry and well ventilated place. Containers should be clearly identified, clear of obstructions and accessible only to authorized personnel. Have appropriate fire extinguishers/sprinkler system in place. Spill clean-up equipment should be in or near storage area.

**Incompatible materials:** Strong oxidizers, Strong acids.

## Section 8 – Exposure Controls/Personal Protection

### **Exposure limits:**

<b>Chemical Name</b>	<b>ACGIH-TLV</b>	<b>OSHA-PEL</b>
Sodium Metasilicate	Not Available	5mg/m <sup>3</sup> (TWA)
Sodium hydroxide	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>
Surfactant, blend	Not Available	Not Available

### **Exposure controls:**

**Ventilation and Engineering Measures:** Use in well ventilated area. Apply technical measures to comply with occupational exposure limits if needed.

**Respiratory Measures:** If airborne concentrations are above the permissible exposure limit, use NIOSH approved respirators.



## Section 8 – Exposure Controls/Personal Protection (Continued)

**Skin Protection:** Wear protective gloves. Where extensive exposure to the product is possible, use resistant apron/suit and boots.

**Eye/Face Protection:** Goggles or safety glasses with side shields.

**Other Protective Equipment:** Ensure that eyewash stations and a safety shower are close to the workstation(s).

**General Hygiene Considerations:** Avoid prolonged contact with eyes, skin and clothing. Do not eat or drink when using this product. Wash hands after handling. Remove and wash all contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## Section 9 – Physical and Chemical Properties

**Appearance:** Clear light purple liquid.

**Odor:** Citrus Odor

**Odor threshold:** Not available

**PH:** 12.5 -13.8

**Melting/Freezing pointing:** ~ -3C (26.6F)

**Boiling point and boiling range:** >100C (212F)

**Flash point:** >93.3C (199.4F)

**Evaporation point (Butyl Acetate=1):** Not available.

**Flammability (method determination):** Not available.

**Lower flammability limit (% by vol.):** Not available.

**Upper flammability limit (% by vol.):** Not available.

**Vapor pressure:** Not available.

**Vapor density:** Not available.

**Relative density:** 1.00 – 1.05

**Solubility in water:** Complete.

**Partition Coefficient (n-octanol/water):** Not available.

**Auto ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

**Volatiles (% by wt) = 0%**

**Volatile organic compounds:** Not available.

**Other physical/chemical comments:** No addition information.

## Section 10 – Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical stability:** Stable under normal conditions.

## Section 10 – Stability and Reactivity (Continued)

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heat. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizers, Strong acids. Avoid contact with glass.

**Hazardous decomposition products:** Carbon oxides.

## Section 11 – Toxicological Information

**Information on routes of exposure:**

**Routes of entry - Inhalation:** YES

**Routes of entry - Skin & Eye:** YES

**Routes of entry - Ingestion:** YES

**Routes of entry - Skin Absorption:** YES

### Potential Health Effects:

**Signs and symptoms of short term exposure:**

*Signs and symptoms:* Inhalation – May cause respiratory irritation.

*Signs and symptoms:* Ingestion – Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Larger amounts may cause burns to the throat and esophagus.

*Signs and symptoms:* Skin – May cause irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

*Signs and symptoms:* Eyes – May cause serious irritation.

**Potential Chronic Health Effects:** None known.

**Mutagenicity:** Not hazardous by OSHA/WHMIS criteria.

**Carcinogenicity:** No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects:** Not hazardous by OSHA/WHMIS criteria.

**Sensitization to material:** No data available to indicate product may be a sensitizer.

**Specific target organ effects:** Not Available.

## Section 11 – Toxicological Information (Continued)

**Medical conditions aggravated by overexposure:** Pre-existing skin and eye conditions.

**Toxicological data:** The calculated ATE value for this mixture is well above classification parameters.

ATE (oral) = 21,690mg/kg

Chemical Name	LD50-Oral	Dermal
Sodium Metasilicate	847mg/kg (Rat)	Not Available
Sodium hydroxide	500mg/kg (Rabbit)	Not Available
Surfactant, blend	Not Available	Not Available

## Section 12 – Ecological Information

**Ecotoxicity:** This product itself has not been tested.

**Mobility in soil:** This product itself has not been tested.

**Persistence and degradability:** This product itself has not been tested.

**Bioaccumulation potential:** This product itself has not been tested.

**Other adverse environmental effects:** None Known.

## Section 13 – Disposal Information

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulation. Contact your federal, state, provincial and local authorities for specific rules.

## Section 14 – Transportation Information

### US 49 CFR/DOT. Ground Transportation

UN No.: UN3266  
UN Proper shipping name: Corrosive liquid, basic, inorganic, N.O.S.,  
(sodium hydroxide, sodium metasilicate).  
Transport hazard class: 8  
Packing group: II  
ERG: 154

**Special Transportation Notes:** May be shipped as Limited Quantity by ground per provisions of CFR 49 173.154 (b).

## Section 15 – Regulatory Information

### US Federal Information:

**TSCA:** All listed ingredients appear on the Toxic Substances Control Act.

**US CERCLA Reportable quantity (RQ):** Sodium hydroxide 1,000 lbs.

### SARA Title III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355:

No extremely hazardous substances are present in this material.

### SARA Title III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:

Reactive Hazard, Acute Health Hazard, Chronic Health Hazard. Under SARA Section 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### SARA Title III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372:

No components are present in this material.

### State Regulations:

**California Proposition 65:** This product does not contain a chemical known to the State of California to cause, birth defects or other reproductive harm.

### International Information:

**Canadian Environmental Protection Act (CEPA) information:** All ingredients listed appear on the Domestic Substances List (DSL).

## Section 16 – Other Information

### HMIS – Hazardous Materials Identification System

Health -2      Flammability -1      Physical Hazard -1      PPE -B

### NFPA – National Fire Protection Association

Health -2      Flammability -1      Reactivity -1

### Abbreviations legend:

**ACGIH:** American Conference of Governmental Industrial Hygienist

**CAS:** Chemical abstract Services

**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act of 1980

**CFR:** Code of Federal Regulations

**CSA:** Canadian Standards Association

**DOT:** Department of Transportation

**ECOTOX:** U.S. EPA Ecotoxicology Database

**EINECS:** European Inventory of Existing Commercial chemical Substances

## **Section 16 – Other Information (Continued)**

**EPA: Environmental Protection agency**  
**HSDB: Hazardous Substances database**  
**IARC: International Agency for Research on Cancer**  
**IBC: Intermediate Bulk Container**  
**IUCLID: International Uniform Chemical Information Database**  
**LC: Lethal Concentration**  
**LD: Lethal Dose**  
**NIOSH: National Institute of Occupational Safety and Health**  
**NTP: National Toxicology Program**  
**OECD: Organization for Economic Cooperation and Development**  
**PEL: Permissible exposure limit**  
**RCRA: Resource Conservation and Recovery Act**  
**RTECS: Registry of Toxic Effects of Chemical Substances**  
**SARA: Superfund Amendments and Reauthorization Act**  
**SDS: Safety Data Sheet**  
**STEL: Short Term Exposure Limit**  
**TDG: Canadian Transportation of Dangerous Goods Act & Regulations**  
**TLV: Threshold Limit Values**  
**TWA: Time Weighted Average**  
**WHMIS: Workplace Hazardous Materials Identification System**

### **Disclaimer**

The information continued herein is based on the manufactures' own study and the work of others, implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The information provided on this SDS 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 guide for the 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 other process.

Version: 1.0 – Initial Release

Version 2.0 – Corrected Pictogram Information

**End of Document**

# Safety Data Sheet



**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

## CHEVRON and TEXACO MID-GRADE UNLEADED GASOLINES

**Product Use:** Fuel

**Product Number(s):** 201001, 204041, 204044, 204063, 204096, 204278, 204312, 204313, 204753 [See Section 16 for Additional Product Numbers]

**Synonyms:** Calco Mid-Grade Unleaded Gasoline, Chevron Mid-Grade Unleaded Gasoline, Chevron Plus Unleaded Gasoline, Texaco Power Plus Gasoline

**Company Identification**

Chevron Products Company  
6001 Bollinger Canyon Rd.  
San Ramon, CA 94583  
United States of America

**Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency**

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

**Product Information**

Product Information: (800) 582-3835  
SDS Requests: [lubemsds@chevron.com](mailto:lubemsds@chevron.com)

SPECIAL NOTES: This MSDS applies to: all motor gasoline.

**SECTION 2 HAZARDS IDENTIFICATION**

**CLASSIFICATION:** Flammable liquid: Category 1. Aspiration toxicant: Category 1. Carcinogen: Category 1A. Target organ toxicant (repeated exposure): Category 1. Eye irritation: Category 2A. Germ Cell Mutagen: Category 1B. Skin irritation: Category 2. Reproductive toxicant (developmental): Category 2. Target organ toxicant (central nervous system): Category 3. Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2.



**Signal Word:** Danger

**Physical Hazards:** Extremely flammable liquid and vapor.

**Health Hazards:** May be fatal if swallowed and enters airways. May cause genetic defects. May cause cancer. Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness.

**Target Organs:** Causes damage to organs (Blood/Blood Forming Organs) through prolonged or repeated exposure.

**Environmental Hazards:** Toxic to aquatic life with long lasting effects.

#### **PRECAUTIONARY STATEMENTS:**

**General:** Keep out of reach of children. Read label before use.

**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. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**Response:** IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician 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 advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. In case of fire: Use media specified in the SDS to extinguish. Specific treatment (see Notes to Physician on this label). Collect spillage.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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

**HAZARDS NOT OTHERWISE CLASSIFIED:** Not Applicable

### SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Gasoline	86290-81-5	100 %vol/vol
Toluene (methylbenzene)	108-88-3	1 - 35 %vol/vol
Xylene (contains o-, m-, & p- xylene isomers in varying amounts)	1330-20-7	1 - 15 %vol/vol
Pentane, 2,2,4-trimethyl- (Isooctane)	540-84-1	1 - 13 %vol/vol
Butane	106-97-8	1 - 12 %vol/vol
Ethanol	64-17-5	0 - 10 %vol/vol
Benzene	71-43-2	0.1 - 4.9 %vol/vol
Hexane	110-54-3	1 - 5 %vol/vol
Heptane	142-82-5	1 - 4 %vol/vol
Ethyl benzene	100-41-4	0.1 - 3 %vol/vol
Cyclohexane	110-82-7	1 - 3 %vol/vol
Naphthalene	91-20-3	0.1 - 2 %vol/vol
Methylcyclohexane	108-87-2	1 - 2 %vol/vol

Motor gasoline is considered a mixture by EPA under the Toxic Substances Control Act (TSCA). The refinery streams used to blend motor gasoline are all on the TSCA Chemical Substances Inventory. The appropriate CAS number for refinery blended motor gasoline is 86290-81-5. The product specifications of motor gasoline sold in your area will depend on applicable Federal and State regulations.

### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

**Eye:** Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

**Skin:** Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.



**Most important symptoms and effects, both acute and delayed**

**IMMEDIATE HEALTH EFFECTS**

**Eye:** Contact with the eyes causes severe irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

**Skin:** Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

**Ingestion:** Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

**Inhalation:** Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

**DELAYED OR OTHER HEALTH EFFECTS:**

**Reproduction and Birth Defects:** Contains material that may cause harm to the unborn child if inhaled above the recommended exposure limit.

**Cancer:** Prolonged or repeated exposure to this material may cause cancer. Gasoline has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Genetic Toxicity:** Contains material that may cause heritable genetic damage based on animal data.

**Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Blood/Blood Forming Organs Risk depends on duration and level of exposure. See Section 11 for additional information.

**Indication of any immediate medical attention and special treatment needed**

**Note to Physicians:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

## SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry Chemical, CO2, AFFF Foam or alcohol resistant foam.

**Unusual Fire Hazards:** See Section 7 for proper handling and storage.

### PROTECTION OF FIRE FIGHTERS:

**Fire Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

## SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Never siphon gasoline by mouth.

Do not store in open or unlabeled containers. READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and

use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**General Storage Information:** DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

<b>SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane, Viton.

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:**



Component	Agency	TWA	STEL	Ceiling	Notation
Gasoline	ACGIH	300 ppm (weight)	500 ppm (weight)	--	A3
Toluene (methylbenzene)	ACGIH	20 ppm (weight)	--	--	--
Toluene (methylbenzene)	OSHA Z-2	200 ppm (weight)	--	300 ppm (weight)	--
Xylene (contains o-, m-, & p- xylene isomers in varying amounts)	ACGIH	100 ppm (weight)	150 ppm (weight)	--	--
Xylene (contains o-, m-, & p- xylene isomers in varying amounts)	OSHA Z-1	435 mg/m3	--	--	--
Pentane, 2,2,4-trimethyl- (Isooctane)	OSHA Z-1	2350 mg/m3	--	--	--
Pentane, 2,2,4-trimethyl- (Isooctane)	ACGIH	300 ppm (weight)	--	--	--
Butane	ACGIH	--	1000 ppm (weight)	--	--
Ethanol	ACGIH	1000 ppm (weight)	--	--	A4 A3
Ethanol	OSHA Z-1	1900 mg/m3	--	--	--
Benzene	ACGIH	.5 ppm (weight)	2.5 ppm (weight)	--	Skin A1 Skin
Benzene	OSHA SRS	1 ppm (weight)	5 ppm (weight)	--	--
Benzene	OSHA Z-2	10 ppm (weight)	--	25 ppm (weight)	--
Benzene	CVX	1 ppm (weight)	5 ppm (weight)	--	--
Hexane	ACGIH	50 ppm (weight)	--	--	Skin
Hexane	OSHA Z-1	1800 mg/m3	--	--	--
Heptane	ACGIH	400 ppm (weight)	500 ppm (weight)	--	--
Heptane	OSHA Z-1	2000 mg/m3	--	--	--
Ethyl benzene	ACGIH	20 ppm (weight)	--	--	A3
Ethyl benzene	OSHA Z-1	435 mg/m3	--	--	--
Cyclohexane	ACGIH	100 ppm (weight)	--	--	--
Cyclohexane	OSHA Z-1	1050 mg/m3	--	--	--

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CHEVRON and TEXACO MID-GRADE  
UNLEADED GASOLINES

SDS : 3205

Naphthalene	ACGIH	10 ppm (weight)	15 ppm	--	Skin A3
Naphthalene	OSHA Z-1	50 mg/m3	--	--	--
Methylcyclohexane	ACGIH	400 ppm (weight)	--	--	--
Methylcyclohexane	OSHA Z-1	2000 mg/m3	--	--	--

Consult local authorities for appropriate values.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Attention: the data below are typical values and do not constitute a specification.**

**Color:** Colorless to yellow

**Physical State:** Liquid

**Odor:** Petroleum odor

**Odor Threshold:** No data available

**pH:** Not Applicable

**Vapor Pressure:** 5 psi - 15 psi (Typical) @ 37.8 °C (100 °F)

**Vapor Density (Air = 1):** 3 - 4 (Typical)

**Initial Boiling Point:** 27.2°C (81°F) - 204.4°C (400°F) (Typical)

**Solubility:** Insoluble in water; miscible with most organic solvents.

**Freezing Point:** Not Applicable

**Melting Point:** Not Applicable

**Specific Gravity:** 0.70 g/ml - 0.80 g/ml @ 15.6°C (60.1°F) (Typical)

**Viscosity:** <1 SUS @ 37.8°C (100°F)

**Evaporation Rate:** No data available

**Decomposition temperature:** No data available

**Octanol/Water Partition Coefficient:** 2 - 7

### FLAMMABLE PROPERTIES:

**Flammability (solid, gas):** No Data Available

**Flashpoint:** (Tagliabue Closed Cup ASTM D56) < -45 °C (< -49 °F)

**Autoignition:** > 280 °C (> 536 °F)

**Flammability (Explosive) Limits (% by volume in air):** Lower: 1.4 Upper: 7.6

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** Not applicable

**Hazardous Decomposition Products:** None known (None expected)  
**Hazardous Polymerization:** Hazardous polymerization will not occur.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Serious Eye Damage/Irritation:** The eye irritation hazard is based on evaluation of data for product components.

**Skin Corrosion/Irritation:** For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 4.8/8.0.

**Skin Sensitization:** This material did not cause skin sensitization reactions in a Buehler guinea pig test.

**Acute Dermal Toxicity:** LD50: >3.75 g/kg (rabbit).

**Acute Oral Toxicity:** LD50: >5 ml/kg (rat).

**Acute Inhalation Toxicity:** 4 hour(s) LD50: >20000 mg/m3 (rat).

**Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material. Gasoline has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Reproductive Toxicity:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Single Exposure:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Repeated Exposure:** The hazard evaluation is based on data for components or a similar material.

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**ADDITIONAL TOXICOLOGY INFORMATION:**

Gasolines are highly volatile and can produce significant concentrations of vapor at ambient temperatures. Gasoline vapor is heavier than air and at high concentrations may accumulate in confined spaces to present both safety and health hazards. When vapor exposures are low, or short duration and infrequent, such as during refueling and tanker loading/unloading, neither total hydrocarbon nor components such as benzene are likely to result in any adverse health effects. In situations such as accidents or spills where exposure to gasoline vapor is potentially high, attention should be paid to potential toxic effects of specific components. Information about specific components in gasoline can be found in Sections 2/3, 8 and 15 of this MSDS. More detailed information on the health hazards of specific gasoline components can be obtained calling the Chevron Emergency Information Center (see Section 1 for phone numbers).

Pathological misuse of solvents and gasoline, involving repeated and prolonged exposure to high concentrations of vapor is a significant exposure on which there are many reports in the medical literature. As with other solvents, persistent abuse involving repeated and prolonged exposures to high concentrations of vapor has been reported to result in central nervous system damage and eventually, death. In a study in which ten human volunteers were exposed for 30 minutes to approximately 200, 500 or 1000 ppm concentrations of gasoline vapor, irritation of the eyes was the only significant effect observed, based on both subjective and objective assessments.

Lifetime inhalation of wholly vaporized unleaded gasoline at 2056 ppm has caused increased liver tumors in female mice and kidney cancer in male rats. In their 1988 review of carcinogenic risk from gasoline, The International Agency for Research on Cancer (IARC) noted that, because published epidemiology studies did not include any exposure data, only occupations where gasoline exposure may have occurred were reviewed. These included gasoline service station attendants and automobile mechanics. IARC also noted that there was no opportunity to separate effects of combustion products from those of gasoline itself. Although IARC allocated gasoline a final overall classification of Group 2B, i.e. possibly carcinogenic to humans, this was based on limited evidence in experimental animals plus supporting evidence including the presence in gasoline of benzene. The actual evidence for carcinogenicity in humans was considered inadequate.

**MUTAGENICITY:** Gasoline was not mutagenic, with or without activation, in the Ames assay (*Salmonella typhimurium*), *Saccharomyces cerevisiae*, or mouse lymphoma assays. In addition, point mutations were not induced in human lymphocytes. Gasoline was not mutagenic when tested in the mouse dominant lethal assay. Administration of gasoline to rats did not cause chromosomal aberrations in their bone marrow cells.

**EPIDEMIOLOGY:** To explore the health effects of workers potentially exposed to gasoline vapors in the marketing and distribution sectors of the petroleum industry, the American Petroleum Institute sponsored a cohort mortality study (Publication 4555), a nested case-control study (Publication 4551), and an exposure assessment study (Publication 4552). Histories of exposure to gasoline were reconstructed for cohort of more than 18,000 employees from four companies for the time period between 1946 and 1985. The results of the cohort mortality study indicated that there was no increased mortality from either kidney cancer or leukemia among marketing and marine distribution employees who were exposed to gasoline in the petroleum industry, when compared to the general population. More importantly, based on internal comparisons, there was no association between mortality from kidney cancer or leukemia and various indices of gasoline exposure. In particular, neither duration of employment, duration of exposure, age at first exposure, year of first exposure, job category, cumulative exposure, frequency of peak exposure, nor average intensity of exposure had any effect on kidney cancer or leukemia mortality. The results of the nested case-control study confirmed the findings of the original cohort study. That is, exposure to gasoline

at the levels experienced by this cohort of distribution workers is not a significant risk factor for leukemia (all cell types), acute myeloid leukemia, kidney cancer or multiple myeloma.

This product contains ethylbenzene.

**BIRTH DEFECTS AND REPRODUCTION:** Ethylbenzene is not expected to cause birth defects or other developmental effects based on well-conducted studies in rabbits and rats sponsored by NIOSH. Other studies in rats and mice which reported urinary tract malformations have many deficiencies and have limited usefulness in evaluating human risk. Reproductive effects are not expected based on a NIOSH study of fertility, and lack of effects observed for sperm counts and motility, estrous cycle and pathology of reproductive organs following repeated exposures. **HEARING:** Statistically significant losses in outer hair cells (OHCs) were observed in rats exposed to  $\geq 200$  ppm ethylbenzene, 6 hours/day, 6 days/week for 13 weeks, after an 8-week recovery period. Following longer exposure, inner hair cells losses were also observed in rats exposed to  $\geq 600$  ppm ethylbenzene, but only occasionally in rats exposed to 400 ppm. The Lowest Observed Adverse Effect Level in rats (LOAEL) was 200 ppm for losses of OHCs. Guinea pigs exposed to ethylbenzene at 2,500 ppm, 6 hours/day for 5 days did not show auditory deficits or losses in OHCs. The concentration of ethylbenzene used in the JP-8 study was approximately 10 ppm. **GENETIC TOXICITY:** Ethylbenzene tested negative in the bacterial mutation test, Chinese Hamster Ovary (CHO) cell in vitro assay, sister chromatid exchange assay and an unscheduled DNA synthesis assay. Conflicting results have been reported for the mouse lymphoma cell assay. Increased micronuclei were reported in an in vitro Syrian hamster embryo cell assay; however, two in vivo micronuclei studies in mice were negative. In Syrian hamster embryo cells in vitro, cell transformation was observed at 7 days of incubation but not at 24 hours. Based on these results, ethylbenzene is not expected to be mutagenic or clastogenic. **CARCINOGENICITY:** In studies conducted by the National Toxicology Program, rats and mice were exposed to ethylbenzene at 25, 250 and 750 ppm for six hours per day, five days per week for 103 weeks. In rats exposed to 750 ppm, the incidence of kidney tubule hyperplasia and tumors was increased. Testicular tumors develop spontaneously in nearly all rats if allowed to complete their natural life span; in this study, the development of these tumors appeared to be enhanced in male rats exposed to 750 ppm. In mice, the incidences of lung tumors in males and liver tumors in females exposed to 750 ppm were increased as compared to control mice but were within the range of incidences observed historically in control mice. Other liver effects were observed in male mice exposed to 250 and 750 ppm. The incidences of hyperplasia were increased in the pituitary gland in female mice at 250 and 750 ppm and in the thyroid in male and female mice at 750 ppm.

This product contains toluene.

**GENERAL TOXICITY:** The primary effects of exposure to toluene in animals and humans are on the central nervous system. Solvent abusers, who typically inhale high concentrations (thousands of ppm) for brief periods of time, in addition to experiencing respiratory tract irritation, often suffer permanent central nervous system effects that include tremors, staggered gait, impaired speech, hearing and vision loss, and changes in brain tissue. Death in some solvent abusers has been attributed to cardiac arrhythmias, which appear to be have been triggered by epinephrine acting on solvent sensitized cardiac tissue. Although liver and kidney effects have been seen in some solvent abusers, results of animal testing with toluene do not support these as primary target organs.

**HEARING:** Humans who were occupationally exposed to concentrations of toluene as low as 100 ppm for long periods of time have experienced hearing deficits. Hearing loss, as demonstrated using behavioral



and electrophysiological testing as well as by observation of structural damage to cochlear hair cells, occurred in experimental animals exposed to toluene. It also appears that toluene exposure and noise may interact to produce hearing deficits.

**COLOR VISION:** In a single study of workers exposed to toluene at levels under 50 ppm, small decreases in the ability to discriminate colors in the blue-yellow range have been reported for female workers. This effect, which should be investigated further, is very subtle and would not likely have been noticed by the people tested.

**REPRODUCTIVE/DEVELOPMENTAL TOXICITY:** Toluene may also cause mental and/or growth retardation in the children of female solvent abusers who directly inhale toluene (usually at thousands of ppm) when they are pregnant. Toluene caused growth retardation in rats and rabbits when administered at doses that were toxic to the mothers. In rats, concentrations of up to 5000 ppm did not cause birth defects. No effects were observed in the offspring at doses that did not intoxicate the pregnant animals. The exposure level at which no effects were seen (No Observed Effect Level, NOEL) is 750 ppm in the rat and 500 ppm in the rabbit.

This product contains xylene.

**ACUTE TOXICITY:** The primary effects of exposure to xylene in animals and humans are on the central nervous system. In addition, in some individuals, xylene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation. **DEVELOPMENTAL TOXICITY:** Xylene has been reported to cause developmental toxicity in rats and mice exposed by inhalation during pregnancy. The effects noted consisted of delayed development and minor skeletal variations. In addition, when pregnant mice were exposed by ingestion to a level that killed nearly one-third of the test group, lethality (resorptions) and malformations (primarily cleft palate) occurred. Since xylene can cross the placenta, it may be appropriate to prevent exposure during pregnancy. **GENETIC TOXICITY/CARCINOGENICITY:** Xylene was not genotoxic in several mutagenicity testing assays including the Ames test. In a cancer study sponsored by the National Toxicology Program (NTP), technical grade xylene gave no evidence of carcinogenicity in rats or mice dosed daily for two years. **HEARING:** Mixed xylenes have been shown to cause measurable hearing loss in rats exposed to 800 ppm in the air for 14 hours per day for six weeks. Exposure to 1450 ppm xylene for 8 hours caused hearing loss while exposure to 1700 ppm for 4 hours did not. Although no information is available for lower concentrations, other chemicals that cause hearing loss in rats at relatively high concentrations do not cause hearing loss in rats at low concentrations. Worker exposure to xylenes at the permissible exposure limit (100 ppm, time-weighted average) is not expected to cause hearing loss.

This product contains naphthalene.

**GENERAL TOXICITY:** Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts.

**REPRODUCTIVE TOXICITY AND BIRTH DEFECTS:** Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. **GENETIC TOXICITY:** Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests. **CARCINOGENICITY:** In a study conducted by the National Toxicology Program (NTP), mice exposed

to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

This product contains cyclohexane.

Cyclohexane primarily affects the central nervous systems of laboratory animals and humans. Acute or prolonged inhalation of cyclohexane at levels below the recommended exposure limits does not result in toxic effects while acute exposures to levels above these recommended limits can cause reversible central nervous system depression. Prolonged exposures of laboratory animals to high levels (up to low thousands of parts per million) have also caused reversible effects which included hyperactivity, diminished response to stimuli, and adaptive liver changes while very high levels (high thousands of parts per million) were fatal. No developmental effects were seen in rats or rabbits following exposures of up to 7000 ppm cyclohexane. No reproductive effects occurred in rats, although postnatal pup growth was reduced at 7000 ppm in a similar manner as observed in the parental animals. Cyclohexane has not been shown to be mutagenic in several in vitro and in vivo assays and has not produced tumors in several dermal application long-term bioassays. Based on these results and the lack of any mutagenic or genotoxic metabolites, cyclohexane is not expected to be mutagenic or genotoxic. Following dermal exposure, cyclohexane is rapidly absorbed, metabolized, and excreted.

This product contains ethanol (ethyl alcohol).

Chronic ingestion of ethanol can damage the liver, nervous system and heart. Chronic heavy consumption of alcoholic beverages has been associated with an increased risk of cancer. Ingestion of ethanol during pregnancy can cause human birth defects such as fetal alcohol syndrome. This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains benzene.

**GENETIC TOXICITY/CANCER:** Repeated or prolonged breathing of benzene vapor has been associated with the development of chromosomal damage in experimental animals and various blood diseases in humans ranging from aplastic anemia to leukemia (a form of cancer). All of these diseases can be fatal. In some individuals, benzene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation.

**REPRODUCTIVE/DEVELOPMENTAL TOXICITY:** No birth defects have been shown to occur in pregnant laboratory animals exposed to doses not toxic to the mother. However, some evidence of fetal toxicity such as delayed physical development has been seen at such levels. The available information on the effects of benzene on human pregnancies is inadequate but it has been established that benzene can cross the human placenta.

OCCUPATIONAL: The OSHA Benzene Standard (29 CFR 1910.1028) contains detailed requirements for training, exposure monitoring, respiratory protection and medical surveillance triggered by the exposure level. Refer to the OSHA Standard before using this product.

This product contains n-hexane.

TARGET ORGAN TOXICITY: Prolonged or repeated ingestion, skin contact or breathing of vapors of n-hexane has been shown to cause peripheral neuropathy. Recovery ranges from no recovery to complete recovery depending upon the severity of the nerve damage. Exposure to 1000 ppm n-hexane for 18 hr/day for 61 days has been shown to cause testicular damage in rats. However, when rats were exposed to higher concentrations for shorter daily periods (10,000 ppm for 6 h/day, 5 days/wk for 13 weeks), no testicular lesions were seen.

CARCINOGENICITY: Chronic exposure to commercial hexane (52% n-hexane) at a concentration of 9000ppm was not carcinogenic to rats or to male mice, but did result in an increased incidence of liver tumors in female mice. No carcinogenic effects were observed in female mice exposed to 900 or 3000 ppm hexane or in male mice. The relevance for humans of these hexane-induced mouse liver tumors is questionable.

GENETIC TOXICITY: n-Hexane caused chromosome aberrations in bone marrow of rats, but was negative in the AMES and mouse lymphoma tests.

**SECTION 12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

- 48 hour(s) LC50: 3.0 mg/l (Daphnia magna)
- 96 hour(s) LC50: 1.8 mg/l (Mysidopsis bahia)
- 96 hour(s) LC50: 8.3 mg/l (Cyprinodon variegatus)
- 96 hour(s) LC50: 2.7 mg/l (Oncorhynchus mykiss)

**MOBILITY**

No data available.

**PERSISTENCE AND DEGRADABILITY**

This material is expected to be readily biodegradable. Following spillage, the more volatile components of gasoline will be rapidly lost, with concurrent dissolution of these and other constituents into the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, soil type, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, can contribute to the weathering of spilled gasoline.

The aqueous solubility of non-oxygenated unleaded gasoline, based on analysis of benzene, toluene, ethylbenzene+xylenes and naphthalene, is reported to be 112 mg/l. Solubility data on individual gasoline

constituents also available.

**POTENTIAL TO BIOACCUMULATE**

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: 2 - 7

**SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations. Check governmental regulations and local authorities for approved disposal of this material.

**SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** UN1203, GASOLINE, 3, II; **OPTIONAL DISCLOSURE:** UN1203, GASOLINE, 3, II, MARINE POLLUTANT (GASOLINE)

**IMO/IMDG Shipping Description:** UN1203, GASOLINE, 3, II, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (GASOLINE)

**ICAO/IATA Shipping Description:** UN1203, GASOLINE, 3, II

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:**  
Not applicable

**SECTION 15 REGULATORY INFORMATION**

<b>EPCRA 311/312 CATEGORIES:</b>	1. Immediate (Acute) Health Effects:	YES
	2. Delayed (Chronic) Health Effects:	YES
	3. Fire Hazard:	YES
	4. Sudden Release of Pressure Hazard:	NO
	5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:



01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Cyclohexane	05, 06, 07
Heptane	05, 06, 07
Methylcyclohexane	05, 06, 07
Pentane, 2,2,4-trimethyl- (Isooctane)	05, 06, 07
Naphthalene	01-2B, 02, 04, 05, 06, 07
Butane	05, 06, 07
Ethanol	01-1, 02, 04, 05, 06, 07
Gasoline	01-2B, 07
Ethyl benzene	01-2B, 03, 04, 05, 06, 07
Toluene (methylbenzene)	04, 05, 06, 07
Benzene	01-1, 02, 03, 04, 05, 06, 07
Hexane	05, 06, 07
Xylene (contains o-, m-, & p- xylene isomers in varying amounts)	03, 05, 06, 07

**CERCLA REPORTABLE QUANTITIES(RQ)/EPCRA 302 THRESHOLD PLANNING QUANTITIES(TPQ):**

Component	Component RQ	Component TPQ	Product RQ
Benzene	10 lbs	None	186 lbs
Cyclohexane	1000 lbs	None	34188 lbs
Ethyl benzene	1000 lbs	None	34964 lbs
Hexane	5000 lbs	None	129149 lbs
Naphthalene	100 lbs	None	4000 lbs
Pentane, 2,2,4-trimethyl- (Isooctane)	1000 lbs	None	6270 lbs
Toluene (methylbenzene)	1000 lbs	None	2627 lbs
Xylene (contains o-, m-, & p- xylene isomers in varying amounts)	100 lbs	None	649 lbs

**CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

**SECTION 16 OTHER INFORMATION****NFPA RATINGS:** Health: 1 Flammability: 3 Reactivity: 0**HMIS RATINGS:** Health: 2\* Flammability: 3 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**Additional Product Number(s):** 201003, 201004, 201006, 201007, 201008, 201010, 201011, 201018, 201021, 201025, 201031, 201032, 201033, 201034, 201036, 201037, 201038, 201041, 201043, 201046, 201048, 201064, 201208, 201210, 201211, 201212, 201230, 201231, 201232, 201260, 201261, 201262, 201271, 201272, 201273, 201280, 201281, 201282, 201288, 201290, 201291, 201292, 201851, 201852, 201858, 201859, 201860, 204004, 204005, 204012, 204013, 204024, 204025, 204048, 204049, 204072, 204073, 204090, 204091, 204106, 204107, 204118, 204119, 204142, 204143, 204166, 204167, 204190, 204191, 204202, 204203, 204209, 204214, 204215, 204226, 204227, 204250, 204251, 204274, 204275, 204292, 204293, 204325, 204326, 204360, 204361, 204366, 204367, 204372, 204373, 204378, 204379, 204384, 204385, 204390, 204391, 204396, 204397, 204402, 204403, 204408, 204409, 204414, 204415, 204420, 204421, 204426, 204427, 204432, 204433, 204438, 204439, 204468, 204469, 204486, 204487, 204504, 204505, 204522, 204523, 204540, 204541, 204558, 204559, 204576, 204577, 204594, 204595, 204612, 204613, 204630, 204631, 204648, 204649, 204666, 204667, 204692, 204693, 204698, 204699, 204704, 204705, 204710, 204711, 204723, 204724, 204729, 204730

**REVISION STATEMENT:**

SECTION 01 - Product Code(s) information was modified.

SECTION 05 - Extinguishing Media information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 16 - HMIS Rating information was modified.

SECTION 16 - NFPA Rating information was modified.

**Revision Date:** October 04, 2016**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)

IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

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 this information 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 modifications 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.

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** CLR Calcium, Lime & Rust Remover

**Other means of identification** None.

**Recommended use** Remover

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Canadian Distributor

**Company name** MAGTAR SALES INC.

**Address** 376 Watline Ave  
Mississauga, ON L4Z 1X2  
Canada

**Telephone** (905) 568-0100/1-800-387-7446

**e-mail** dhancock@magtarsales.ca

**Emergency phone number** CHEMTREC: 1-800-424-9300

**Manufacturer** Jelmar, LLC

## 2. Hazard identification

**Physical hazards** Corrosive to metals Category 1

**Health hazards** Serious eye damage/eye irritation Category 2A

**Environmental hazards** Not classified.

### Label elements



**Signal word** Warning

**Hazard statement** May be corrosive to metals. Causes serious eye irritation.

#### Precautionary statement

**Prevention** Keep only in original packaging. Wash thoroughly after handling. Wear eye protection/face protection.

**Response** Absorb spillage to prevent material-damage.  
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** Store in a corrosion resistant container with a resistant inner liner.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** None known.

**Supplemental information** Exempt - Consumer product

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Lactic acid		79-33-4	10-30
Lauryldimethylamine oxide		1643-20-5	1-5



Chemical name	Common name and synonyms	CAS number	%
D-Gluconic acid		526-95-4	1-5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The concentration ranges are provided due to batch-to-batch variability.  
Not applicable to consumer products. Refer to product label for ingredient content.

#### 4. First-aid measures

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	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. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place out of direct sunlight. Store in a corrosion resistant container with a resistant inner liner. Keep only in the original container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

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## 8. Exposure controls/Personal protection

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<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields.
<b>Skin protection</b>	
<b>Hand protection</b>	Not normally required.
<b>Other</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator 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), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	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. When using do not eat or drink.

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## 9. Physical and chemical properties

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<b>Appearance</b>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Green
<b>Odour</b>	Acidic
<b>Odour threshold</b>	Not available.
<b>pH</b>	2.1 - 2.3 , acid reserve 3.98
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	99 °C (210.2 °F)
<b>Flash point</b>	none
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.04 - 1.06
<b>Solubility(ies)</b>	
<b>Solubility (Water)</b>	100 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

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## 10. Stability and reactivity

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<b>Reactivity</b>	This product may react with strong oxidising agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Do not mix with bleach or any other chemical.
<b>Incompatible materials</b>	Strong oxidising agents. Metals.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

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## 11. Toxicological information

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### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Non-irritating based on test data.

**Eye contact** Causes serious eye irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test results
D-Gluconic acid (CAS 526-95-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	6.1 g/kg, ECHA
Lactic acid (CAS 79-33-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg > 2000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 7.9 mg/L, 4 Hours
<i>Oral</i>		
LD50	Guinea pig	1810 mg/kg
	Mouse	4875 mg/kg
	Rat	4936 mg/kg 3543 mg/kg
Lauryldimethylamine oxide (CAS 1643-20-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	2700 mg/kg, Sigma Aldrich
	Rat	1064 mg/kg, ECHA
<b>Skin corrosion/irritation</b>	Non-irritating based on test data.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	

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<b>Oedema value</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Corneal opacity value</b>	Not available.
<b>Iris lesion value</b>	Not available.
<b>Conjunctival reddening value</b>	Not available.
<b>Conjunctival oedema value</b>	Not available.
<b>Recover days</b>	Not available.
<b>Respiratory or skin sensitisation</b>	
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Not available.
<b>Further information</b>	Not available.

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## 12. Ecological information

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<b>Ecotoxicity</b>	See below		
<b>Ecotoxicological data</b>			
<b>Components</b>		<b>Species</b>	<b>Test results</b>
Lactic acid (CAS 79-33-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	180 - 320 mg/L, 48 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Mobility in soil</b>	No data available.		
<b>Mobility in general</b>	Not available.		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

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## 13. Disposal considerations

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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.

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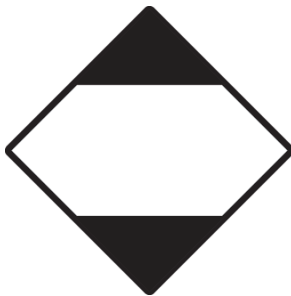
## 14. Transport information

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<b>General</b>	Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	
<b>Basic shipping requirements:</b>	
<b>UN number</b>	UN3265

**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
**Technical name** Lactic acid  
**Hazard class** Limited Quantity - Canada  
**Packing group** III  
**Special provisions** 16  
**Packaging exceptions** <5L - Limited Quantity

TDG



## 15. Regulatory information

### Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.  
 This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).  
 This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

### International regulations

### WHMIS classification

Exempt - Consumer product

### Inventory status

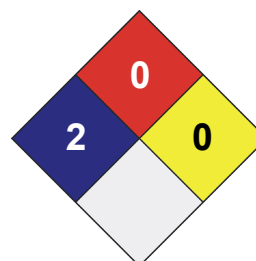
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



### Issue date

29-November-2017

### Revision date

29-November-2017

### Version No.

01

### Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically 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 control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Prepared by**

Dell Tech Laboratories Ltd. Phone: (519) 858-5021



## CANBERRA CORPORATION SAFETY DATA SHEET

### 1. Identification

**Product Identifier:** DETERGENT THICKENED HUSKY 302 D/T BOWL CLEANER

**Application or recommended use:** Disinfectant toilet bowl cleaner

**Restrictions on use:** Do not use in any fashion not specified on the product label.

**Manufacturer / supplier:** Canberra Corporation

3610 N. Holland-Sylvania Rd.

Toledo, Ohio 43615 USA

**Telephone:** 419-841-6616 **Emergency phone:** 800-832-8992 **National Poison Center:** 800-222-1222

### 2. Hazards Identification

**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200.

Skin Corrosion/Irritation - Category 1B

Eye Damage/Irritation - Category 1

Corrosive to Metals - 1

#### Label Elements:



Symbol:

Signal word:

**DANGER**

Hazard statements:

Causes severe skin burns and serious eye damage.

May be corrosive to metals.

Precautionary statements: Do not breathe mist/vapors/spray.

Wash hands, face and any skin contact thoroughly after handling.

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

Keep only in original container.

Absorb spillage to prevent material damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

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.

**Immediately call a POISON CENTER or doctor/physician.**

See 4. First-Aid Measures for specific treatment.

Store locked up in corrosive resistant container.

Dispose of contents/container to an approved disposal facility.

**Other Hazards:** Harmful if swallowed.

### 3. Composition / Information on Ingredients

**Chemical characterization:** Hydrochloric acid solution, blended with detergents, germicides and auxiliary agents.

**Hazardous ingredients:** The exact percentage of composition has been withheld as a trade secret.

9.5 - 10% \*Hydrochloric acid (Muriatic acid)

CAS 7647-01-0, EINECS/ELINCS 231-595-7

0.9 - 2.5% Ethanol, 2,2'-iminobis-,n-soya alkyl derivs.,

CAS 73246-96-5, EINECS/ELINCS Not Available

**Other ingredients (> 1%):**

> 85% Water

CAS 7732-18-5, EINECS/ELINCS 231-791-2

### 4. First-Aid Measures

**Symptoms:** Causes irritation or burning sensation. Causes severe skin burns and serious eye damage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth to an unconscious person. If respiratory irritation, dizziness, or unconsciousness occurs, seek immediate medical assistance.

**Skin Contact:** Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Version:** 001 **Date issued:** 31. 12. 2014

**Revision Date:** N/A

Page 1 of 4

**4. First-Aid Measures (cont.)**

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration. Probable mucosal damage may contraindicate the use of gastric lavage.

**Note to Physician:** Treat exposed patients symptomatically.

**5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** Not applicable. Product is not a fire hazard.

**Unsuitable Extinguishing Media:** High pressure water jet.

**Specific hazards in case of fire:** Hydrogen chloride gas may be generated at high temperatures.

**Special Fire Fighting Precautions:** Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

**6. Accidental Release Measures**

**Emergency Procedures:** Depending on the extent of release, consider the need for emergency responders with adequate personal protective equipment for clean up, need for evacuation or restriction of access to spill area.

**Personal Precautions:** Provide adequate ventilation. Do not eat, drink or smoke during clean up. If necessary, use self-contained respirator, or filtered mask. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

**Environmental Precautions:** Prevent spills from entering storm sewers/drains or contact with soil.

**Clean up Methods:** Small spills may be wiped up and rinsed with water. For larger spills, neutralize with sodium carbonate and absorb on fire retardant material (e.g. sand). Pick up absorbent and dispose of at an appropriate waste disposal facility.

**7. Handling and Storage**

**Precautions for Safe Handling:** Read label before use. Never use with chlorine products. Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave area. Do not return for half hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acid materials. Do not breathe mist/vapors. Wash hands, face and any skin contact thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection, face protection. Use product only according to label directions. If unsure about safe use, contact your supervisor immediately. Use only in a well-ventilated area.

**Conditions for Safe Storage:** Keep out of reach of children. Do not contaminate water, food or feed by storage and disposal. Store locked up in tightly closed, original, corrosive resistant container in a cool (10° - 30°C), dry, well-ventilated area.

**Incompatibility:** Chlorine bleach, alkali. Do not mix with anything but water.

**8. Exposure Controls / Personal Protection**

**Components with occupational exposure limits:**

Component	Reference	TWA	PEL
Hydrochloric acid	ACGIH	2 ppm (C)	
	OSHA		5 ppm (C)

**Engineering Controls:** Proper ventilation in accordance with good industrial hygiene should be provided.

**Personal Protective Equipment**

**Respiratory:** Respiratory protection is not necessary under normal conditions of use. If necessary to prevent exposure above occupational limits, use an approved cartridge style respirator.

**Gloves:** Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established.

**Eye Protection:** Chemical resistant goggles and face protection.

**Other:** Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

**9. Physical and Chemical Properties**

<b>Physical State</b> -	Liquid	<b>Auto-ignition temperature</b> -	Not applicable
<b>Color</b> -	Green	<b>Flash Point</b> -	None
<b>Odor</b> -	Floral, acidic	<b>Flammability</b> -	Not applicable
<b>Odor Threshold</b> -	No data available	<b>Flammability Limits</b> -	Not applicable
<b>Boiling Point</b> -	212°F	<b>Partition coefficient</b> -	Not applicable
<b>Decomposition temperature</b> -	No data available	<b>Solubility (Water)</b> -	Complete
<b>Freezing Point</b> -	0°F	<b>Vapor Density</b> -	No data available
<b>pH (Neat)</b> -	< 1	<b>Vapor Pressure</b> -	No data available
<b>Relative Density</b> -	1.045	<b>Viscosity</b> -	Slightly viscous
<b>Evaporation Rate</b> -	Similar to water	<b>% VOC</b> -	< 0.5 (Excluding LVP material)



## **10. Stability and Reactivity**

**Reactivity:** No specific reactivity test data is available. Under normal conditions of storage and use, hazardous reactions are not expected. **Incompatible materials:** Mixing with bleach, alkali, or oxidizers may generate toxic gases.

**Chemical stability:** This product is stable at ambient temperatures and pressures.

**Conditions to avoid:** Temperatures above 50°C or below 10°C.

**Hazardous decomposition products:** Hydrogen chloride

## **11. Toxicological Information**

**Acute Toxicity:** Toxicity data is not available for this mixture. Data below are estimates based on summation methods.

Test	Results	Classification (A.0.4.1(c))	Basis (A.1.3.6.1)
Oral	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Dermal	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Inhalation	> 20 mg/L	Not applicable	Ingredient literature (Additive formula)
Eye Damage/Irritation	Corrosion	Category 1	Ingredient literature
Skin Damage/Irritation	Corrosion	Category 1B	Ingredient literature

**Summary:** Skin and eye contact are most likely routes of exposure. Exposure causes skin burns and serious eye damage.

### **Subchronic/Chronic Toxicity:**

Test	Results	Classification	Basis
Skin Sensitization	Not a sensitizer	Not applicable	Ingredient literature.

**Summary:** Repeated or prolonged contact causes skin burns and eye damage.

**Carcinogens** - Ingredients are not listed on the NTP Report on Carcinogens, \*IARC Monographs or by OSHA

\*IARC does list "strong inorganic acid mists" as carcinogenic, but under normal conditions, no exposure to acid mists occurs. Acid solutions are not listed.

**Other data** - No other toxicological information is available for this mixture.

## **12. Ecological Information**

This material has not been tested for acute environmental effects.

**Persistence and degradability:** Material is not persistent. All organic components > 1% are readily biodegradable.

**Bio-accumulative potential:** No evidence to suggest bio-accumulation will occur.

**Mobility:** Accidental spillage may lead to penetration of soil and groundwater. However, due to degradability, no evidence suggests this would cause adverse ecological effects. Material will lower pH of affected area.

## **13. Disposal Considerations**

RCRA Class - D002. Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. **Container Disposal:** Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, burn. If burned, stay out of smoke. If container is one gallon or less, wrap empty container in plastic bag and discard in trash.

## **14. Transport Information**

**Proper Shipping Name:** UN1789 Hydrochloric acid solution **RQ** - 5000 Lbs. (Hydrochloric Acid)

**Shipping emergency phone:** 800-424-9300

**Transport hazard class:** 8 **Hazard Label:** Corrosive (When shipped as a Limited Quantity, labeling is not required.)

**Packing Group:** II **Emergency Guide No.:** 154 **Marine Pollutant:** No

## **15. Regulatory Information**

**Inventory status:** All components are listed on TSCA(US), EINECS/ELINCS(EU), DSL(Canada), AICS(Australia), ENCS(Japan).

**FIFRA:** This product is a U.S. EPA Registered pesticide, EPA Reg. No. 8155-6, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

**15. Regulatory Information (cont.)**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. Do not breathe vapor or fumes. Do not get in eyes, on skin or on clothing. Wear protective eyewear (safety goggles or face shield), protective clothing and rubber gloves when handling. Use with adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Chemical Hazards:** **Never use with chlorine products.** Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Clean up any spills or drips immediately. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid. **Do not use on PVD finished surfaces.** The pesticide label also includes other important information, including directions for use.

**OSHA Hazard Communication Standard:** This product meets the §1910.1200 definition of a "Hazardous Chemical".

**Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Sections 311 and 312**

<b>Immediate (Acute) Health Hazard</b>	Yes	<b>Delayed (Chronic) Health Hazard</b>	No
<b>Fire Hazard</b>	No	<b>Reactive Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No		

**Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313**

\*Chemicals marked with an asterisk in “**3. Composition/Information on Ingredients**” are subject to reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372.

**Pennsylvania/New Jersey/Massachusetts Right to Know**

See “**3. Composition/Information on Ingredients**” for hazardous and top five ingredients over 1% (w/w).

**California Proposition 65:** This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**16. Other information**

**Date issued:** 31. 12. 2014

F302-001 Revision: N/A

**Disclaimer:** No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. **Prepared by:** R&D, Canberra Corporation

# Safety Data Sheet



**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

## DIESEL FUEL No. 2

**Product Use:** Fuel [See Section 16 for Additional Product Numbers]

**Synonyms:** 15 S Diesel Fuel 2; Alternative Low Aromatic Diesel (ALAD); CAL ULS S R6-20 B0-5 DF2; CAL ULS S R6-20 B0-5 DF2DY; Calco LS Diesel 2; CALCO ULS C-B0-B5 DF2; CALCO ULS C-B0-B5 DF2 DYED; CALCO ULS C-B2 DF2; CALCO ULS C-B2 DF2 DYED; CALCO ULS C-B5 DF2; CALCO ULS C-B5 DF2 DYED; Calco ULS DF2; Calco ULS Diesel 2; CALCO ULS S R6-20 DF2; CALCO ULS S R6-20 DF2 DYED; CALCO ULS S-B0-B5 DF2 DYED; Calco ULS S-B5 DF2; Calco ULS S-B5 DF2 DYED; CALCO ULS TC-B1 DF2; CALCO ULS TC-B1 DF2 DYED; CALCO ULS TC-B2 DF2; CALCO ULS TC-B2 DF2 DYED; CALCO ULS TC-B3 DF2; CALCO ULS TC-B3 DF2 DYED; CALCO ULS TC-B4 DF2; CALCO ULS TC-B4 DF2 DYED; CALCO ULS TC-B5 DF2; CALCO ULS TC-B5 DF2 DYED; CALCO ULS TX-B1 DF2; CALCO ULS TX-B1 DF2 DYED; CALCO ULS TX-B2 DF2; CALCO ULS TX-B2 DF2 DYED; CALCO ULS TX-B3 DF2; CALCO ULS TX-B3 DF2 DYED; CALCO ULS TX-B4 DF2; CALCO ULS TX-B4 DF2 DYED; CALCO ULS TX-B5 DF2; CALCO ULS TX-B5 DF2 DYED; Chevron LS Diesel 2; Chevron ULS Diesel 2; CT ULS C-B0-B5 DF2; CT ULS C-B0-B5 DF2 DYED; CT ULS C-B2 DF2; CT ULS C-B5 DF2; CT ULS S R6-20 B0-5 DF2; CT ULS S R6-20 DF2; CT ULS S R6-20 DF2 DYED; CT ULS S-B0-B5 DF2 DYED; CT ULS S-B5 DF2; CT ULS S-B5 DF2 DYED; CT ULS S-BO-B5 DF2; CT ULS SPECIAL DF2 DYED; CT ULS TC-B1 DF2; CT ULS TC-B2 DF2; CT ULS TC-B3 DF2; CT ULS TC-B4 DF2; CT ULS TC-B5 DF2; CT ULS TX-B1 DF2; CT ULS TX-B2 DF2; CT ULS TX-B3 DF2; CT ULS TX-B4 DF2; CT ULS TX-B5 DF2; Diesel Fuel Oil; Diesel Grade No. 2; Diesel No. 2-D S15; Diesel No. 2-D S500; Diesel No. 2-D S5000; Distillates, straight run; Gas Oil; HS Diesel 2; HS Heating Fuel 2; Light Diesel Oil Grade No. 2-D; LS Diesel 2; LS Heating Fuel 2; Marine Diesel; RR Diesel Fuel; Texaco Diesel; Texaco Diesel No. 2; ULS C-B0-B5 DF2; ULS C-B0-B5 DF2 DYED; ULS C-B2 DF2; ULS C-B2 DF2 DYED; ULS C-B5 DF2; ULS C-B5 DF2 DYED; ULS S R6-20 B0-5 DF2; ULS S R6-20 B0-5 DF2 DYED; ULS S R6-20 DF2; ULS S R6-20 DF2 DYED; ULS S-B0-B5 DF2 DYED; ULS S-B5 DF2; ULS S-BO-B5 DF2; ULS TC-B1 DF2; ULS TC-B1 DF2 DYED; ULS TC-B2 DF2; ULS TC-B2 DF2 DYED; ULS TC-B3 DF2; ULS TC-B3 DF2 DYED; ULS TC-B4 DF2; ULS TC-B4 DF2 DYED; ULS TC-B5 DF2; ULS TC-B5 DF2 DYED; ULS TX-B1 DF2; ULS TX-B1 DF2 DYED; ULS TX-B3 DF2; ULS TX-B3 DF2 DYED; ULS TX-B4 DF2; ULS TX-B4 DF2 DYED; ULS TX-B5 DF2; ULS TX-B5 DF2 DYED; Ultra Low Sulfur Diesel 2

**Company Identification**

Chevron Products Company  
6001 Bollinger Canyon Rd.  
San Ramon, CA 94583  
United States of America

### Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

### Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

### Product Information

Product Information: (800) 582-3835

SDS Requests: [lubemsds@chevron.com](mailto:lubemsds@chevron.com)

SPECIAL NOTES: This SDS covers all Chevron, Texaco and Calco CARB & non-CARB Diesel No. 2 Fuels. The sulfur content is less than 0.5% (mass). Red dye is added to non-taxable fuel. (SDS 6894)

SPECIAL NOTES: This SDS covers all Chevron and Calco CARB Low Sulfur Diesel No. 2 Fuels. Red dye is added to non-taxable fuel. (SDS 7098)

## SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable liquid: Category 3. Aspiration toxicant: Category 1. Carcinogen: Category 1B. Skin irritation: Category 2. Target organ toxicant (repeated exposure): Category 2. Target organ toxicant (central nervous system): Category 3. Acute inhalation toxicant: Category 4. Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2.



**Signal Word:** Danger

**Physical Hazards:** Flammable liquid and vapor.

**Health Hazards:** May be fatal if swallowed and enters airways. May cause cancer. Causes skin irritation. Harmful if inhaled. May cause drowsiness or dizziness.

**Target Organs:** May cause damage to organs (Blood/Blood Forming Organs, Liver, Thymus) through prolonged or repeated exposure.

**Environmental Hazards:** Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS:

**General:** Keep out of reach of children. Read label before use.

**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.

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wash thoroughly after handling. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell. In case of fire: Use media specified in the SDS to extinguish. Specific treatment (see Notes to Physician on this label). Collect spillage.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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

**HAZARDS NOT OTHERWISE CLASSIFIED:** Not Applicable

**SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Diesel Fuel No. 2	68476-34-6	95 - 100 %vol/vol
Renewable Diesel	Mixture	0 - 20 %vol/vol
Fatty Acid Methyl Esters (FAME)	Mixture	0 - 5 %vol/vol
Naphthalene	91-20-3	0.02 - 0.2 %vol/vol
Total sulfur	Mixture	0 - 5000 ppm (weight)

**SECTION 4 FIRST AID MEASURES**

**Description of first aid measures**

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

**Most important symptoms and effects, both acute and delayed**

**IMMEDIATE HEALTH EFFECTS**

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin causes irritation. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

**Ingestion:** Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

**Inhalation:** The vapor or fumes from this material may cause respiratory irritation. Mists of this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

**DELAYED OR OTHER HEALTH EFFECTS:**

**Cancer:** Whole diesel engine exhaust has been classified as a Group 2A carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Prolonged or repeated exposure to this material may cause cancer. Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit based on animal data: Liver  
Blood/Blood Forming Organs Thymus Risk depends on duration and level of exposure. See Section 11 for additional information.

**Indication of any immediate medical attention and special treatment needed**

**Note to Physicians:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

**SECTION 5 FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Unusual Fire Hazards:** See Section 7 for proper handling and storage.

**PROTECTION OF FIRE FIGHTERS:**

**Fire Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.



## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

## SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Do not breathe mist. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** WARNING! Do not use as portable heater or appliance fuel. Toxic fumes may accumulate and cause death. Slow heat generation may occur with oil-soaked rags, spent filter aids and spent absorbent material and may cause spontaneous combustion if stored near combustibles and not handled properly. Store biodiesel soaked rags, filter aids, and spill absorbent material in approved safety disposal containers and dispose of properly. Biodiesel soaked rags may be washed with soap and water and allowed to dry in well ventilated area.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**General Storage Information:** DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted.

Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane, Viton.

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:**

Component	Agency	TWA	STEL	Ceiling	Notation
Total sulfur	Not Applicable	--	--	--	--
Diesel Fuel No. 2	ACGIH	100 mg/m3	--	--	Skin A3 total hydrocarbon
Diesel Fuel No. 2	CVX	100 mg/m3	--	--	Skin total hydrocarbon



Renewable Diesel	Not Applicable	--	--	--	--
Fatty Acid Methyl Esters (FAME)	Not Applicable	--	--	--	--
Naphthalene	ACGIH	10 ppm (weight)	15 ppm	--	Skin A3
Naphthalene	OSHA Z-1	50 mg/m3	--	--	--

Consult local authorities for appropriate values.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Attention: the data below are typical values and do not constitute a specification.**

**Color:** Varies depending on specification

**Physical State:** Liquid

**Odor:** Petroleum odor

**Odor Threshold:** No data available

**pH:** Not Applicable

**Vapor Pressure:** 0.04 kPa (Approximate) @ 40 °C (104 °F)

**Vapor Density (Air = 1):** >1

**Initial Boiling Point:** 175.6°C (348.1°F) - 370°C (698°F)

**Solubility:** Soluble in hydrocarbons; insoluble in water

**Freezing Point:** Not Applicable

**Melting Point:** Not Applicable

**Specific Gravity:** 0.80 - 0.88 @ 15.6°C (60.1°F) (Typical)

**Density:** No data available

**Viscosity:** 1.90 cSt - 4.10 cSt @ 40°C (104°F)

**Coefficient of Therm. Expansion / °F:** No data available

**Evaporation Rate:** No data available

**Decomposition temperature:** No data available

**Octanol/Water Partition Coefficient:** No data available

### FLAMMABLE PROPERTIES:

**Flammability (solid, gas):** No Data Available

**Flashpoint:** (Pensky-Martens Closed Cup) 52 °C (125 °F) Minimum

**Autoignition:** 257 °C (494 °F)

**Flammability (Explosive) Limits (% by volume in air):** Lower: 0.6 Upper: 4.7

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to Avoid:** Avoid contact with heat, sparks, fire and oxidizing agents

**Incompatibility With Other Materials:** Not applicable

**Hazardous Decomposition Products:** None known (None expected)

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Serious Eye Damage/Irritation:** The eye irritation hazard is based on evaluation of data for similar materials.

**Skin Corrosion/Irritation:** The skin irritation hazard is based on evaluation of data for similar materials.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for similar materials.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials.

**Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for similar materials.

**Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for similar materials.

**Acute Toxicity Estimate (inhalation):** 1.2 mg/l

**Germ Cell Mutagenicity:** The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material. Whole diesel engine exhaust has been classified as a Group 2A carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Reproductive Toxicity:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Single Exposure:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Repeated Exposure:** The hazard evaluation is based on data for components or a similar material.

### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains gas oils.

CONCAWE (product dossier 95/107) has summarized current health, safety and environmental data available for a number of gas oils, typically hydrodesulfurized middle distillates, CAS 64742-80-9, straight-run middle distillates, CAS 64741-44-2, and/or light cat-cracked distillate CAS 64741-59-9.

CARCINOGENICITY: All materials tested have caused the development of skin tumors in mice, but all

featured severe skin irritation and sometimes a long latency period before tumors developed. Straight-run and cracked gas oil samples were studied to determine the influence of dermal irritation on the carcinogenic activity of middle distillates. At non-irritant doses the straight-run gas oil was not carcinogenic, but at irritant doses, weak activity was demonstrated. Cracked gas oils, when diluted with mineral oil, demonstrated carcinogenic activity irrespective of the occurrence of skin irritation. Gas oils were tested on male mice to study tumor initiating/promoting activity. The results demonstrated that while a straight-run gas oil sample was neither an initiator or promotor, a blend of straight-run and FCC stock was both a tumor initiator and a promoter.

**GENOTOXICITY:** Hydrotreated & hydrodesulfurized gas oils range in activity from inactive to weakly positive in in-vitro bacterial mutagenicity assays. Mouse lymphoma assays on straight-run gas oils without subsequent hydrodesulphurization gave positive results in the presence of S9 metabolic activation. In-vivo bone marrow cytogenetics and sister chromatic exchange assay exhibited no activity for straight-run components with or without hydrodesulphurization. Thermally or catalytically cracked gas oils tested with in-vitro bacterial mutagenicity assays in the presence of S9 metabolic activation were shown to be mutagenic. In-vitro sister chromatic exchange assays on cracked gas oil gave equivocal results both with and without S9 metabolic activation. In-vivo bone marrow cytogenetics assay was inactive for two cracked gas oil samples. Three hydrocracked gas oils were tested with in-vitro bacterial mutagenicity assays with S9, and one of the three gave positive results. Twelve distillate fuel samples were tested with in-vitro bacterial mutagenicity assays & with S9 metabolic activation and showed negative to weakly positive results. In one series, activity was shown to be related to the PCA content of samples tested. Two in-vivo studies were also conducted. A mouse dominant lethal assay was negative for a sample of diesel fuel. In the other study, 9 samples of No 2 heating oil containing 50% cracked stocks caused a slight increase in the number of chromosomal aberrations in bone marrow cytogenetics assays. **DEVELOPMENTAL TOXICITY:** Diesel fuel vapor did not cause fetotoxic or teratogenic effects when pregnant rats were exposed on days 6-15 of pregnancy. Gas oils were applied to the skin of pregnant rats daily on days 0-19 of gestation. All but one (coker light gas oil) caused fetotoxicity (increased resorptions, reduced litter weight, reduced litter size) at dose levels that were also maternally toxic.

The National Institute of Occupational Safety and Health (NIOSH) has recommended that whole diesel exhaust be regarded as potentially causing cancer. This recommendation was based on test results showing increased lung cancer in laboratory animals exposed to whole diesel exhaust.

This product contains naphthalene.

**GENERAL TOXICITY:** Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts.

**REPRODUCTIVE TOXICITY AND BIRTH DEFECTS:** Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. **GENETIC TOXICITY:** Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests. **CARCINOGENICITY:** In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the

male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

**SECTION 12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

A series of studies on the acute toxicity of 4 diesel fuel samples were conducted by one laboratory using water accommodated fractions. The range of effective (EC50) or lethal concentrations (LC50) expressed as loading rates were: This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

- 72 hour(s) EC50: 2.6-25 mg/l (Selenastrum capricornutum)
- 96 hour(s) LC50: 21-210 mg/l (Salmo gairdneri)
- 48 hour(s) EC50: 20-210 mg/l (Daphnia magna)

**MOBILITY**

No data available.

**PERSISTENCE AND DEGRADABILITY**

This material is not expected to be readily biodegradable. On release to the environment the lighter components of diesel fuel will generally evaporate but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.) the remainder may become dispersed in the water column or absorbed to soil or sediment. Diesel fuel would not be expected to be readily biodegradable. In a modified Strum test (OECD method 301B) approximately 40% biodegradation was recorded over 28 days. However, it has been shown that most hydrocarbon components of diesel fuel are degraded in soil in the presence of oxygen. Under anaerobic conditions, such as in anoxic sediments, rates of biodegradation are negligible.

The product has not been tested. The statement has been derived from products of a similar structure and composition.

**POTENTIAL TO BIOACCUMULATE**

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

**SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.



01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Diesel Fuel No. 2	07
Naphthalene	01-2B, 02, 04, 06

**CERCLA REPORTABLE QUANTITIES(RQ)/EPCRA 302 THRESHOLD PLANNING QUANTITIES(TPQ):**

Component	Component RQ	Component TPQ	Product RQ
Naphthalene	100 lbs	None	40000 lbs

**CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

**NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: DIESEL FUEL

**SECTION 16 OTHER INFORMATION**

**NFPA RATINGS:** Health: 1 Flammability: 2 Reactivity: 0

**HMIS RATINGS:** Health: 2\* Flammability: 2 Reactivity: 0  
 (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**Additional Product Number(s):** 203408, 203410, 203413, 203417, 203431, 203436, 203437, 203441, 203443, 203447, 203449, 203450, 203477990, 203480990, 203481990, 203482990, 203483990, 203484990, 203485990, 203486990, 203487990, 203488990, 203489990, 220122, 225114, 225115, 225150, 266176, 270000, 270005, 270030, 270031, 270032, 270033, 270034, 270040, 270041, 270042, 270043, 270044, 270045, 270046, 270047, 270048, 270049, 270050, 270051, 270052, 270053, 270054, 270058, 270059, 270060, 270062, 270063, 270064, 270065, 270068, 270069, 270070, 270081, 270082, 270083, 270084, 270085, 270086, 270087, 270088, 270089, 270090, 270091, 270094, 270095, 270096, 270100, 270101, 270102, 270103, 270104, 270105, 270106, 270107, 270108, 270109, 270110, 270111,

270112, 270113, 270114, 270115, 270116, 270117, 270118, 270119, 270120, 270121, 270122, 270123, 270124, 271006, 272006, 272007, 272008, 272009, 272010, 272011, 272012, 272013, 272093, 272102, 272126, 272129, 272130, 272131, 272152, 272185, 272190, 272195, 272593, 272601, 272602, 272693, 272793, 273003, 273030, 273053, 275000

**REVISION STATEMENT:**

SECTION 15 - Regulatory Information information was modified.

SECTION 16 - Product Code(s) information was modified.

**Revision Date:** February 23, 2017

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

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 this information 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 modifications 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.

# Material 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 Response Center 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 MSDS 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 MSDS are further described in Section 16.

## Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in American Spanish upon request.  
 Los Datos de Seguridad del Producto pueden obtenerse en Español si lo requiere.

<b>Product Name:</b>	Do It Best All Purpose Silicone Rubber Sealant - White	<b>Revision Date:</b>	07/18/2013
<b>Product UPC Number:</b>	009326770093	<b>Supersedes:</b>	03/21/2012
<b>Product Use/Class:</b>	Caulk	<b>MSDS Number:</b>	00018338301
<b>Manufactured for:</b>	Do It Best Corporation 6502 Nelson Road Fort Wayne, IN 46801-5300		

## Section 2 - Hazards Identification

**Emergency Overview:** A(n) white paste product with a acetic acid odor. **WARNING!** May cause eye, skin, nose, throat and respiratory tract irritation. May be harmful if swallowed. Remove contact lenses before using.

Refer to other MSDS sections for other detailed information.

**Effects Of Overexposure - Eye Contact:** Direct contact may cause mild irritation. May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

**Effects Of Overexposure - Skin Contact:** May cause skin irritation. May cause mild irritation.

**Effects Of Overexposure - Inhalation:** Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor concentration is attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.

**Effects Of Overexposure - Ingestion:** Low ingestion hazard in normal use. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may result in obstruction when material hardens.

**Effects Of Overexposure - Chronic Hazards:** Prolonged or repeated contact with skin can cause defatting of the skin, which may lead to dermatitis.

**Primary Route(s) Of Entry:** Skin Contact, Inhalation, Ingestion, Eye Contact



**Medical Conditions which May be Aggravated by Exposure:** No known applicable information.

**Carcinogenicity:**

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
64742-46-7	Hydrotreated middle distillate	Suspected human carcinogen.	Not Listed.	Not classifiable as to carcinogenicity to humans.	Not Listed.
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possibly carcinogenic to humans.	Not Listed.

### Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Dimethylsiloxane, hydroxy term	51721300-5110P	40-70
Hydrotreated middle distillate	64742-46-7	10-30
Silica, amorphous	7631-86-9	7-13
Silanetriol, methyl-, triaceta	4253-34-3	3-7
Ethyltriacetoxysilane	17689-77-9	3-7
Titanium dioxide	13463-67-7	0.5-1.5

### Section 4 - First Aid Measures

**First Aid - Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.

**First Aid - Skin Contact:** Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Flush with lukewarm gently flowing water for 15 minutes. If irritation persists, repeat flushing. If irritation persists, obtain medical advice.

**First Aid - Inhalation:** Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor is generated, care should be taken to prevent inhalation. In case of exposure to vapor, move to fresh air.

**First Aid - Ingestion:** If irritation or discomfort occur, obtain medical advice.

**Note to Physician:** None.

**COMMENTS:** If over-exposure occurs, call your poison control center at 1-800-222-1222.

### Section 5 - Fire Fighting Measures

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unusual Fire And Explosion Hazards:** None.

**Special Firefighting Procedures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

### Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Wear proper protective equipment as specified in Section 8. Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a

slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See Section 8 for Personal Protective Equipment for Spills.

## Section 7 - Handling And Storage

**Handling:** Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Avoid skin contact.

**Storage:** Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture. This material in its finely divided form presents an explosion hazard. Follow NFPA 654 (for chemical dusts) or 484 (for metal dusts) as appropriate for managing dust hazards to minimize secondary explosion potential.

## Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Dimethylsiloxane, hydroxy term	51721300-5110P	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Hydrotreated middle distillate	64742-46-7	5 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Silica, amorphous	7631-86-9	10 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Silanetriol, methyl-, triaceta	4253-34-3	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ethyltriacetoxysilane	17689-77-9	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No

### Exposure Notes:

Consult local authorities for acceptable provincial values.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

**Precautionary Measures:** Please refer to other sections and subsections of this MSDS.

**Engineering Controls:** Local Ventilation: Recommended.  
General Ventilation: Recommended.

**Respiratory Protection:** Personal Protective Equipment for Routine Handling:

Inhalation:

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator:

Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills:

Inhalation/Suitable Respirator:

Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels

are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Skin Protection: Personal Protective Equipment for Routine Handling:**  
-----

Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

**Suitable Gloves:**

Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.

**Personal Protective Equipment for Spills:**  
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Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

**Eye Protection: Personal Protective Equipment for Routine Handling:**  
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Use proper protection - safety glasses as a minimum.

**Personal Protective Equipment for Spills:**  
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Use full face respirator.

**Other protective equipment:** None.

**Hygienic Practices:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**Important:** Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

**Note:** An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	Not Established	<b>Vapor Density:</b>	Heavier Than Air
<b>Odor:</b>	Acetic Acid	<b>Odor Threshold:</b>	Not Established
<b>Color:</b>	White	<b>Evaporation Rate:</b>	Slower Than n-Butyl Acetate
<b>Solubility in H2O:</b>	Not Established	<b>Specific Gravity:</b>	0.96 - 0.96
<b>Freeze Point:</b>	Not Established	<b>pH:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established	<b>Viscosity:</b>	Not Established
<b>Physical State:</b>	Paste	<b>Flammability:</b>	Non-Flammable
<b>Flash Point, F:</b>	Greater than 200	<b>Method:</b>	(Seta Closed Cup)
<b>Lower Explosive Limit, %:</b>	Not Determined	<b>Upper Explosive Limit, %:</b>	Not Determined

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Excessive heat and freezing.

**Incompatibility:** Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8. Incompatible with strong bases and oxidizing agents.

**Hazardous Decomposition Products:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal conditions.

**Stability:** Stable under recommended storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** Not Established

**Product LC50:** Not Established

None

**Significant Data with Possible Relevance to Humans:** None.

## Section 12 - Ecological Information

**Ecological Information:** Ecological injuries are not known or expected under normal use.

## Section 13 - Disposal Information

**Disposal Information:** 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.

**EPA Waste Code if Discarded (40 CFR Section 261):** None.

## Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	Not Regulated.	<b>Packing Group:</b>	N.A.
<b>DOT Technical Name:</b>	N.A.	<b>Hazard Subclass:</b>	N.A.
<b>DOT Hazard Class:</b>	N.A.	<b>DOT UN/NA Number:</b>	N.A.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

## Section 15 - Regulatory Information

### CERCLA - 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:

Immediate Health Hazard, Chronic Health Hazard

### 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:

None

**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:

None

**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product:

None

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%:

None

**California Proposition 65:**

None.

<b>Section 16 - Other Information</b>
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**HMIS Ratings:**

Health: 1	Flammability: 1	Reactivity: 0	Personal Protection: X
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**Volatile Organic Compounds (VOC), less water less exempts:** g/L: 28.8    lb/gal: 0.24    wt:wt%: 3.0

**Volatile Organic Compounds (VOC), less water less exempts, less LVP-VOCs:**    wt:wt%: 3.0

**REASON FOR REVISION:** Periodic Update

**Legend:**

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

We believe 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 INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained 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.

<End of MSDS>

# Material Safety Data Sheet

Revision Date 26-Mar-2013

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** DL4740 05  
**Product name** Earth Harmony All Purpose Cleaner  
**Recommended Use** Cleaner

**Supplier** Drummond Canada  
A Lawson Products Company  
7315 Rapistan Court  
Mississauga, ON L5N 5Z4  
(800) 323-5922

**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May cause irritation of respiratory tract. May cause eye/skin irritation.

### Aggravated Medical Conditions

None Known.

### Principal Routes of Exposure

Eyes. Skin.

### Potential health effects

**Eyes** Contact with eyes may cause irritation.

**Skin** Prolonged skin contact may cause skin irritation.

**Inhalation** Breathing mists may cause the following effects: .  
Respiratory irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

## 4. FIRST AID MEASURES

**Eye contact** Flush for 15 minutes or until irritation subsides. If symptoms persist, call a physician.

**Skin contact** Wash area thoroughly with soap and water.

**Ingestion** Do Not induce vomiting. Rinse mouth with water and spit out rinse. Consult a physician if necessary.

**Inhalation** Move to fresh air.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** None  
**Flash point °F** None  
**Method** No information available

**Autoignition temperature °C** No data available  
**Autoignition temperature °F** No data available

**Flammability Limits (% in Air)**  
**Upper** No data available  
**Lower** No data available

### Suitable extinguishing media

Foam. Water fog. Alcohol foam. Carbon dioxide (CO2). Dry chemical powder.

### Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Sensitivity to shock

No information available.

### Sensitivity to static discharge

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

### Clean-up methods - small spill

Flush into normal drainage with copious amounts of water (if local regulations permit). Soak up with inert absorbent material. Collect and contain for disposal.

### Clean-up methods - large spill

Dike or dam large spills. Hold for disposal or reuse.

## 7. HANDLING AND STORAGE

### Handling

Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Rinse empty containers well before handling and disposal.

### Storage

Keep away from heat and sources of ignition. Check daily for any leaks from containers, vessels, pumps, and piping.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Ventilation and Environmental Controls**

Ensure adequate ventilation, especially in confined areas.

**Hygiene measures**

General industrial hygiene practice

**Other precautions**

Avoid contact with the skin and the eyes.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment. Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator.

**Hand Protection**

Gloves are recommended for individuals with skin sensitivities. Impervious gloves. Latex gloves. Neoprene gloves.

**Eye protection**

ANSI approved safety goggles are recommended to prevent accidental eye contact. Use safety eyewear designed to protect against splash of liquids.

**Skin and body protection**

Wear appropriate clothing to minimize skin contact.

**Other Protective Equipment**

A safety shower and eye wash station should be available for emergency use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Liquid
<b>Color</b>	Clear Dark Pink
<b>Odor</b>	Mild / No fragrance added
<b>Odor Threshold</b>	No information available
<b>pH</b>	8.5-10.0 in dilution; 9.5-11.5 in conc
<b>Specific Gravity</b>	1.01
<b>Vapor pressure</b>	Not Applicable
<b>Vapor density</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Water solubility</b>	Soluble in water
<b>VOC Content</b>	0%
<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	< 100°
<b>Boiling point/range °F</b>	< 212°
<b>Melting point/range °C</b>	Not Applicable
<b>Melting point/range °F</b>	Not Applicable
<b>Flash point °C</b>	None
<b>Flash point °F</b>	None

**10. STABILITY AND REACTIVITY**

**Stability**  
Stable

**Conditions to avoid**

None known.

**Incompatibility**

None known.

**Hazardous Decomposition Products**

When heated beyond normal or when burned, this product will liberate forms of: Carbon monoxide. Carbon dioxide. Hydrocarbons.

**Polymerization**

Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION****Component Information**

**Synergistic Products** None known

**Potential health effects**

**Sensitization** None known

**Chronic toxicity** None known

**Mutagenic effects** None known

**Teratogenic effects** None known

**Reproductive toxicity** None known

**Target Organ Effects** See Section 2

**Carcinogenic effects** See table below

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects** No information available

**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Triple rinse and dispose of in a sanitary landfill or by other procedures approved by state or local authorities. Please recycle empty container whenever possible. Dispose in accordance with federal, state, and local regulations.

**Waste from residues / unused products**

Dispose of in accordance with local regulations.

**14. TRANSPORTATION INFORMATION****DOT**

Not Regulated



Product code **DL4740 05**

Product name **Earth  
Harmony All Purpose  
Cleaner**

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**14. TRANSPORTATION INFORMATION**

**TDG**

Not Regulated

**15. REGULATORY INFORMATION**

**State Regulations**

**International Inventories**

**CPR**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

**HMIS**

**Health - 0**

**Flammability - 0**

**Physical Hazard - 0**

**Prepared By**

V. Shargorodsky, Regulatory Affairs  
Engineer

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.

## Safety Data Sheet

Printing date 02/05/2018

Revised On 02/05/2018

## 1 Identification of the substance and manufacturer

**Trade name:** ALUMINUM  
**Product code:** ETAM2D  
**Recommended use:** Paint and coating applications.  
**Uses advised against:** Any that differs from the recommended use.  
**Manufacturer/Supplier:** Fox Valley Paint  
 5A Production Drive  
 Brookfield, CT 06804  
 phone: 844-627-5255  
 email: info@foxvalleypaint.com  
**Emergency telephone number:** 1-800-255-3924

## 2 Hazard(s) identification

## Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.  
 Press. Gas H280 Contains gas under pressure; may explode if heated.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
 STOT SE 3 H336 May cause drowsiness or dizziness.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

## GHS Hazard pictograms



GHS02 GHS04 GHS07 GHS08

## 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.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash hands thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 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 eye irritation persists: Get medical advice/attention.  
 Store in a well-ventilated place.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

## Dangerous components:

110-19-0	Isobutyl Acetate	18.76%
74-98-6	propane	17.61%
108-88-3	Toluene	17.48%
106-97-8	n-butane	10.34%
67-64-1	Acetone	10.17%
64742-47-8	Mineral Spirits	6.22%
7429-90-5	Aluminum flake	2.5%

## 4 First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water.  
**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.  
**After swallowing:** Rinse mouth with water. Do not induce vomiting.  
**Most important symptoms and effects:** Dizziness  
**Indication of any immediate medical attention needed:** No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

(Contd. on page 2)

## Safety Data Sheet

Printing date 02/05/2018

Revised On 02/05/2018

Trade name: ALUMINUM

**Special hazards:** Can form explosive gas-air mixtures.  
**Protective equipment for firefighters:** A respiratory protective device may be necessary.

(Contd. of page 1)

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use respiratory protective device against the effects of fumes/dust/aerosol.  
**Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13.

**7 Handling and storage**

**Precautions for safe handling:** Use only in well ventilated areas.  
**Storage requirements:** Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

**8 Exposure controls/personal protection****Components with limit values that require monitoring at the workplace:****110-19-0 Isobutyl Acetate**

PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm  
REL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm  
TLV (USA) Short-term value: 712 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 238 mg/m<sup>3</sup>, 50 ppm

**74-98-6 propane**

PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
REL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
TLV (USA) refer to Appendix F in TLVs&BEIs book; D, EX

**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/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
TLV (USA) Long-term value: 75 mg/m<sup>3</sup>, 20 ppm  
BEI

**106-97-8 n-butane**

REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm  
TLV (USA) Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm  
(EX)

**67-64-1 Acetone**

PEL (USA) Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm  
REL (USA) Long-term value: 590 mg/m<sup>3</sup>, 250 ppm  
TLV (USA) Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 594 mg/m<sup>3</sup>, 250 ppm  
BEI

**7429-90-5 Aluminum flake**

PEL (USA) Long-term value: 15\*; 5\*\* mg/m<sup>3</sup>  
\*Total dust; \*\* Respirable fraction  
REL (USA) Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
as Al\*Total dust\*\*Respirable/pyro powd./welding f.  
TLV (USA) Long-term value: 1\* mg/m<sup>3</sup>  
as Al; \*as respirable fraction

**Ingredients with biological limit values:****67-64-1 Acetone**

BEI (USA) 50 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Acetone (nonspecific)

**Hygienic protection:** Immediately remove all soiled and contaminated clothing.  
Wash hands after use.  
Store protective clothing separately.  
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 exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

**Hand protection:** Nitrile gloves.  
The glove material must be impermeable and resistant to the substance.

**Eye protection:** Tightly sealed goggles

**9 Physical and chemical properties**

**Appearance:** Aerosol.

(Contd. on page 3)

## Safety Data Sheet

Printing date 02/05/2018

Revised On 02/05/2018

Trade name: ALUMINUM

(Contd. of page 2)

**Odor:** Aromatic  
**Odor threshold:** Not determined.  
**pH-value:** Not determined.  
**Melting point/Melting range** Undetermined.  
**Boiling point:** -44 °C (-47.2 °F)  
**Flash point:** -19 °C (-2.2 °F)  
**Flammability (solid, gas):** Extremely flammable.  
**Decomposition temperature:** Not determined.  
**Auto igniting:** Product is not self-igniting.  
**Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.  
**Lower Explosion Limit:** 1.5 Vol %  
**Upper Explosion Limit:** 10.9 Vol %  
**Vapor pressure:** Not determined.  
**Relative Density:** Between 0.77 and 0.85 (Water equals 1.00)  
**Vapor density** Not determined.  
**Evaporation rate** Not applicable.  
**Partition coefficient: n-octonal/water:** Not determined.  
**Solubility:** Not determined.  
**Viscosity:** Not determined.

## 10 Stability and reactivity

**Reactivity:** Stable at normal temperatures.  
**Conditions to avoid:** Do not allow can to exceed 120 degrees Fahrenheit. 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.

## 11 Toxicological information

LD/LC50 values that are relevant for classification:

## 110-19-0 Isobutyl Acetate

Oral	LD50	4,763 mg/kg (rbt)
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## 106-97-8 n-butane

Inhalative	LC50/4 h	658 mg/l (rat)
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**Information on toxicological effects:** No data available.  
**Skin effects:** No irritant effect.  
**Eye effects:** No irritating effect.  
**Sensitization:** No sensitizing effects known.

## 12 Ecological information

**Aquatic toxicity:** Hazardous for water, do not empty into drains.  
**Persistence and degradability:** The product is degradable after prolonged exposure to natural weathering processes.  
**Bioaccumulative potential:** No further relevant information available.  
**Mobility in soil:** No further relevant information available.  
**Other adverse effects:** No further relevant information available.

## 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.

## 14 Transport information

**UN-Number** UN1950  
**DOT** N/A  
**DOT** Consumer Commodity ORM-D  
 Aerosols, flammable  
**ADR** 1950 Aerosols  
**Transport hazard class(es):**  
**Class** 2.1  
**Special precautions for user:** Warning: Gases  
**EMS Number:** F-D,S-U  
**Stowage Code** SW1 Protected from sources of heat.  
 SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
**Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

(Contd. on page 4)

## Safety Data Sheet

Printing date 02/05/2018

Revised On 02/05/2018

Trade name: ALUMINUM

(Contd. of page 3)

**Quantity limitations** On passenger aircraft/rail: 75 kg  
On cargo aircraft only: 150 kg

**ADR**  
**Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

**IMDG**  
**Limited quantities (LQ)** 1L  
**Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

**Packaging Group:** --  
**UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

**15 Regulatory information****SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

108-88-3 Toluene

7429-90-5 Aluminum flake

**Toxic Substances Control Act (TSCA):**

All hazardous ingredients for this product are found on the inventory list of substances.

**Consumer Product Safety Commission (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:**

None of the ingredients in this product are listed.

**California Proposition 65 chemicals known to cause birth defects or reproductive harm:**

108-88-3 Toluene

**CANADIAN ENVIRONMENTAL PROTECTION ACT: WHMIS Symbols for Canada:**

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.  
A - Compressed gas  
D2A - Very toxic material causing other toxic effects

**EPA:**

110-19-0 Isobutyl Acetate

D

67-64-1 Acetone

I

**16 Other information**

**Contact:** Regulatory Affairs  
**Date of preparation / last revision** 02/05/2018 / -

# SAFETY DATA SHEET

Z90L812

## Section 1. Identification

**Product name** : Exterior Acrylic Latex Traffic & Zone Marking Paint  
Handicapped Blue

**Product code** : Z90L812

**Other means of identification** : Not available.

**CAS #** : Not applicable.

**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Manufacturer** : CBD Group  
101 Prospect Ave.  
Cleveland, OH 44115

**Emergency telephone number of the company** : (216) 566-2917

**Product Information Telephone Number** : Not available.

**Regulatory Information Telephone Number** : (216) 566-2902

**Transportation Emergency Telephone 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 LIQUIDS - Category 4  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Combustible liquid.  
Suspected of causing cancer.  
Causes damage to organs.  
May cause 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.

**Date of issue/Date of revision**

: 3/24/2017

**Date of previous issue**

: 12/23/2016

**Version** : 6

1/12

## 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. Keep away from flames and hot surfaces. - No smoking. 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: Call a POISON CENTER or physician.
- 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** : 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
Methanol	2.38	67-56-1
2-(2-Butoxyethoxy)-ethanol	1.51	112-34-5
Titanium Dioxide	0.83	13463-67-7

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. If necessary, call a poison center or physician.
- 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 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. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. 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** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**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. 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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
**Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

- 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.

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## Section 5. Fire-fighting measures

**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 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).

### 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 ingest. 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. 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.

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## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : 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

### Control parameters

#### Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Methanol	<b>ACGIH TLV (United States, 3/2016). Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 262 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2013). Absorbed through skin.</b> TWA: 200 ppm 10 hours. TWA: 260 mg/m <sup>3</sup> 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours.
2-(2-Butoxyethoxy)-ethanol	<b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
Titanium Dioxide	<b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust

#### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
None.	

#### Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Methanol	<b>NOM-010-STPS (Mexico, 4/2016). Absorbed through skin.</b> LMPE-PPT: 200 ppm 8 hours. LMPE-CT: 250 ppm 15 minutes.
2-(2-Butoxyethoxy)-ethanol	<b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor

## Section 8. Exposure controls/personal protection

- 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: safety glasses with side-shields.
- 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** : 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** : 7.1
- Melting point** : Not available.
- Boiling point** : 64°C (147.2°F)
- Flash point** : Closed cup: 66°C (150.8°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 2.07 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 0.9%  
Upper: 36.5%

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## Section 9. Physical and chemical properties

Vapor pressure	: 12.3 kPa (92 mm Hg) [at 20°C]
Vapor density	: 1 [Air = 1]
Relative density	: 1.51
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm <sup>2</sup> /s (>20.5 cSt)
Molecular weight	: Not applicable.
<u>Aerosol product</u>	
Heat of combustion	: 1.116 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.
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
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
2-(2-Butoxyethoxy)-ethanol	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-

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## Section 11. Toxicological information

Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
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### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methanol	Category 1	All	Not determined
2-(2-Butoxyethoxy)-ethanol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methanol	Category 2	Not determined	Not determined
2-(2-Butoxyethoxy)-ethanol	Category 2	Not determined	Not determined

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- 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** : No specific data.
- Ingestion** : No specific data.

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## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**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	4147.4 mg/kg
Dermal	11787.7 mg/kg
Inhalation (vapors)	126.2 mg/l

## **Section 12. Ecological information**

### Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
2-(2-Butoxyethoxy)-ethanol	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Methanol	-	<10	low

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## Section 12. Ecological information

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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. 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

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>IATA</b>	<b>IMDG</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-	-

**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 the IBC Code** : Not available.

**Proper shipping name** : Not available.

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## Section 14. Transport information

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.)

Health	*	3
Flammability		2
Physical hazards		0

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 4	On basis of test data
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

### History

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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

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## 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 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.



Date:  
Supercedes:

20 October 2010  
15 October 2007

## MATERIAL SAFETY DATA SHEET

**IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300**

### 1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **GOJO® FAST WIPES® HAND CLEANING TOWELS**

Company Name & Address: GOJO Industries, Inc.  
One GOJO Plaza, Suite 500  
Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

### 2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Alcohol	64-17-5	1000 ppm	1000 ppm	<5
Isopropyl Alcohol	67-63-0	400 ppm	200 ppm	<0.5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropyl Alcohol	67-63-0	MA 1; NJ 1S; PA 1; CN 2
Limonene	5989-27-5	NJ; CN 1

### 3. HAZARDS IDENTIFICATION:

#### **EMERGENCY OVERVIEW**

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

#### **Potential Health Effects:**

HMIS: Health 1 Flammability 2 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Not applicable.

Ingestion: May cause upset stomach, nausea (Abnormal entry route).

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

### 4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.

Skin Contact: Not applicable.

Inhalation: Not applicable.

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

**5. FIRE FIGHTING MEASURES:**NFPA: Health   1   Fire   2   Reactivity   0  

Flashpoint °F/°C (PMCC method): Not determined.

Unusual Fire and Explosion Hazards: None known.

Special Fire Fighting Procedures: None known.

Extinguishing Media:   X   Water Fog   X   Alcohol Foam   X   CO<sub>2</sub>   X   Dry Chemical        Other**6. ACCIDENTAL RELEASE MEASURES:**

No special requirements. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

**7. HANDLING AND STORAGE:**

Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Eye Protection: None required under normal conditions.

Skin Protection: None required under normal conditions.

Respiratory Protection: None required under normal conditions.

Ventilation: None required under normal conditions.

Protective Equipment or Clothing: None required under normal conditions.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance and Odor Towelette impregnated with orange fragranced liquid

pH (undiluted): 7.5 –9.2 (liquid portion)

VOC , %: &lt;8% (liquid portion)

**10. STABILITY AND REACTIVITY:**

Stable/Non reactive product.

**11. TOXICOLOGICAL INFORMATION:**

No acute or chronic toxic effects expected when used according to directions.

**12. ECOLOGICAL CONSIDERATIONS:**

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

**13. DISPOSAL CONSIDERATIONS:**

No special considerations when disposed according to local, state and Federal regulations.

**14. TRANSPORT INFORMATION:**

Not classified as a hazardous material.

**15. REGULATORY AND OTHER INFORMATION:**

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

WHMIS: Not controlled

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.



Class C  
Solutions  
Group

## Safety Data Sheet

### Supply Co. - NATURAL ORANGE PUMICE HAND CLEANER

Document Nbr: 082667  
Class C Parts IDs 21300,21302,21303,21305,21348,21369

SAFETY DATA SHEET

GOJO(R\*)

GOJO(R\*) NATURAL\* ORANGE(TM) PUMICE HAND CLEANER

VERSION: 1.0

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#### -----SECTION 1. IDENTIFICATION -----

PRODUCT NAME: GOJO(R\*) NATURAL\* ORANGE(TM) PUMICE HAND CLEANER

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY NAME OF SUPPLIER: GOJO INDUSTRIES, INC.

ADDRESS:

ONE GOJO PLAZA, SUITE 500  
AKRON OH 44311

TELEPHONE: 1 (330) 255-6000

EMERGENCY TELEPHONE: 1-800-424-9300 CHEMTREC

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: SKIN-CARE

RESTRICTIONS ON USE:

THIS IS A PERSONAL CARE OR COSMETIC PRODUCT THAT IS SAFE FOR CONSUMERS AND

OTHER USERS UNDER NORMAL AND REASONABLY FORESEEABLE USE. COSMETICS AND CONSUMER PRODUCTS, SPECIFICALLY DEFINED BY REGULATIONS AROUND THE WORLD, ARE EXEMPT FROM THE REQUIREMENT OF AN SDS FOR THE CONSUMER. WHILE THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, THIS SDS CONTAINS VALUABLE INFORMATION CRITICAL TO THE SAFE HANDLING AND PROPER USE OF THE PRODUCT FOR INDUSTRIAL WORKPLACE CONDITIONS AS WELL AS UNUSUAL AND UNINTENDED EXPOSURES SUCH AS LARGE SPILLS. THIS SDS SHOULD BE RETAINED AND AVAILABLE FOR EMPLOYEES AND OTHER USERS OF THIS PRODUCT. FOR SPECIFIC INTENDED-USE GUIDANCE, PLEASE REFER TO THE INFORMATION PROVIDED ON THE PACKAGE OR INSTRUCTION SHEET.

-----SECTION 2. HAZARDS IDENTIFICATION -----

GHS CLASSIFICATION:

EYE IRRITATION: CATEGORY 2A

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS: EXCLAMATION MARK

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H319: CAUSES SERIOUS EYE IRRITATION.

PRECAUTIONARY STATEMENTS:

PREVENTION:

P264: WASH SKIN THOROUGHLY AFTER HANDLING.

P280: WEAR EYE PROTECTION/FACE PROTECTION.

RESPONSE:

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.

OTHER HAZARDS: NONE KNOWN.

-----SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS -----

SUBSTANCE / MIXTURE: MIXTURE

HAZARDOUS INGREDIENTS:

CHEMICAL NAME	CAS-NO.	CONCENTRATION (%)
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1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE 5989-27-5 >= 5 - <10

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED 68551-13-3 >= 1 - <5

-----SECTION 4. FIRST AID MEASURES -----

GENERAL ADVICE:

IN THE CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY.  
WHEN SYMPTOMS PERSIST OR IN ALL CASES OF DOUBT SEEK MEDICAL ADVICE.

IF INHALED:

IF INHALED, REMOVE TO FRESH AIR.  
GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF SKIN CONTACT:

WASH WITH WATER AND SOAP AS A PRECAUTION.  
GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF EYE CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15  
MINUTES.

IF EASY TO DO, REMOVE CONTACT LENS, IF WORN.

GET MEDICAL ATTENTION.

IF SWALLOWED:

IF SWALLOWED, DO NOT INDUCE VOMITING.  
GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.  
RINSE MOUTH THOROUGHLY WITH WATER.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

CAUSES SERIOUS EYE IRRITATION.

PROTECTION OF FIRST-AIDERS:

FIRST AID RESPONDERS SHOULD PAY ATTENTION TO SELF-PROTECTION, AND USE THE  
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT WHEN THE POTENTIAL FOR EXPOSURE  
EXISTS.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

-----SECTION 5. FIRE-FIGHTING MEASURES -----

SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY  
ALCOHOL-RESISTANT FOAM  
DRY CHEMICAL  
CARBON DIOXIDE (CO<sub>2</sub>)

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS DURING FIRE FIGHTING:  
EXPOSURE TO COMBUSTION PRODUCTS MAY BE A HAZARD TO HEALTH.

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES

SPECIFIC EXTINGUISHING METHODS:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

REMOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT IS SAFE TO DO SO.

EVACUATE AREA.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:  
IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS.  
USE PERSONAL PROTECTIVE EQUIPMENT.

-----SECTION 6. ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:  
USE PERSONAL PROTECTIVE EQUIPMENT.  
FOLLOW SAFE HANDLING ADVICE AND PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS.

ENVIRONMENTAL PRECAUTIONS:

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

PREVENT SPREADING OVER A WIDE AREA (E.G. BY CONTAINMENT OR OIL BARRIERS).

RETAIN AND DISPOSE OF CONTAMINATED WASH WATER.

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.

FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER.

CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBENT.

LOCAL OR NATIONAL REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF

RELEASES. YOU WILL NEED TO DETERMINE WHICH REGULATIONS ARE APPLICABLE.

SECTIONS 13 AND 15 OF THIS SDS PROVIDE INFORMATION REGARDING CERTAIN LOCAL OR NATIONAL REQUIREMENTS.

-----SECTION 7. HANDLING AND STORAGE -----

TECHNICAL MEASURES:

SEE ENGINEERING MEASURES UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION.

LOCAL/TOTAL VENTILATION: USE ONLY WITH ADEQUATE VENTILATION.

ADVICE ON SAFE HANDLING:

AVOID INHALATION OF VAPOR OR MIST.

DO NOT SWALLOW.

DO NOT GET IN EYES.

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

TAKE CARE TO PREVENT SPILLS, WASTE AND MINIMIZE RELEASE TO THE ENVIRONMENT.

CONDITIONS FOR SAFE STORAGE:

KEEP IN PROPERLY LABELED CONTAINERS.

STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS.

MATERIALS TO AVOID:

DO NOT STORE WITH THE FOLLOWING PRODUCT TYPES:

STRONG OXIDIZING AGENTS

-----SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS:

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

HAZARDOUS COMPONENTS WITHOUT WORKPLACE CONTROL PARAMETERS:

INGREDIENTS	CAS-NO.
1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE	5989-27-5
ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED	68551-13-3

ENGINEERING MEASURES:

ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS.

MINIMIZE WORKPLACE EXPOSURE CONCENTRATIONS.

DUST FORMATION MAY BE RELEVANT IN THE PROCESSING OF THIS PRODUCT. IN ADDITION TO SUBSTANCE-SPECIFIC OELS, GENERAL LIMITATIONS OF CONCENTRATIONS OF PARTICULATES IN THE AIR AT WORKPLACES HAVE TO BE CONSIDERED IN WORKPLACE RISK ASSESSMENT. RELEVANT LIMITS INCLUDE: OSHA PEL FOR PARTICULATES NOT OTHERWISE



REGULATED OF 15 MG/M<sup>3</sup> - TOTAL DUST, 5 MG/M<sup>3</sup> - RESPIRABLE FRACTION; AND ACGIH TWA FOR PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED OF 3 MG/M<sup>3</sup> - RESPIRABLE PARTICLES, 10 MG/M<sup>3</sup> - INHALABLE PARTICLES.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

GENERAL AND LOCAL EXHAUST VENTILATION IS RECOMMENDED TO MAINTAIN VAPOR EXPOSURES BELOW RECOMMENDED LIMITS. WHERE CONCENTRATIONS ARE ABOVE RECOMMENDED LIMITS OR ARE UNKNOWN, APPROPRIATE RESPIRATORY PROTECTION SHOULD BE WORN. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND USE NIOSH/MSHA APPROVED RESPIRATORS. PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS AGAINST EXPOSURE TO ANY HAZARDOUS CHEMICAL IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE UNKNOWN, OR ANY OTHER CIRCUMSTANCE WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

HAND PROTECTION:

MATERIAL: IMPERVIOUS GLOVES

REMARKS:

CHOOSE GLOVES TO PROTECT HANDS AGAINST CHEMICALS DEPENDING ON THE CONCENTRATION SPECIFIC TO PLACE OF WORK. BREAKTHROUGH TIME IS NOT DETERMINED FOR THE PRODUCT. CHANGE GLOVES OFTEN! FOR SPECIAL APPLICATIONS, WE RECOMMEND CLARIFYING THE RESISTANCE TO CHEMICALS OF THE AFOREMENTIONED PROTECTIVE GLOVES WITH THE GLOVE MANUFACTURER. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

EYE PROTECTION:

WEAR THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT: SAFETY GOGGLES

SKIN AND BODY PROTECTION:

SELECT APPROPRIATE PROTECTIVE CLOTHING BASED ON CHEMICAL RESISTANCE DATA AND AN ASSESSMENT OF THE LOCAL EXPOSURE POTENTIAL.

SKIN CONTACT MUST BE AVOIDED BY USING IMPERVIOUS PROTECTIVE CLOTHING (GLOVES, APRONS, BOOTS, ETC).

HYGIENE MEASURES:

ENSURE THAT EYE FLUSHING SYSTEMS AND SAFETY SHOWERS ARE LOCATED CLOSE TO THE WORKING PLACE.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONTAMINATED CLOTHING BEFORE RE-USE.

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE: LIQUID

COLOR: GRAY, OPAQUE

ODOR: CITRUS

ODOR THRESHOLD: NO DATA AVAILABLE

PH: 5.0 - 8.0

MELTING POINT/FREEZING POINT: NO DATA AVAILABLE

INITIAL BOILING POINT AND BOILING RANGE: 95 DEG. C

FLASH POINT: >100 DEG. C

EVAPORATION RATE: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

UPPER EXPLOSION LIMIT: NO DATA AVAILABLE

LOWER EXPLOSION LIMIT: NO DATA AVAILABLE

VAPOR PRESSURE: NO DATA AVAILABLE

RELATIVE VAPOR DENSITY: NO DATA AVAILABLE

DENSITY: 1.0390 G/CM<sup>3</sup>

SOLUBILITY(IES):

WATER SOLUBILITY: SOLUBLE

PARTITION COEFFICIENT N-OCTANOL/WATER: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE:

THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED SELF-REACTIVE.

VISCOSITY:

VISCOSITY, KINEMATIC: 10,000 - 50,000 MM<sup>2</sup>/S (20 DEG. C)

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE

OXIDIZING PROPERTIES: THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS OXIDIZING.

-----SECTION 10. STABILITY AND REACTIVITY -----

REACTIVITY: NOT CLASSIFIED AS A REACTIVITY HAZARD.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: CAN REACT WITH STRONG OXIDIZING AGENTS.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE MATERIALS: OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:  
NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

-----SECTION 11. TOXICOLOGICAL INFORMATION -----

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION  
SKIN CONTACT  
INGESTION  
EYE CONTACT

ACUTE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

ACUTE ORAL TOXICITY:

LD50 (RAT): >2,000 MG/KG

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE ORAL TOXICITY

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

ACUTE ORAL TOXICITY:

LD50 (RAT): >5,000 MG/KG

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE INHALATION TOXICITY:

LC50 (RAT): >1.6 MG/L

EXPOSURE TIME: 4 H

TEST ATMOSPHERE: DUST/MIST

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE INHALATION TOXICITY

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE DERMAL TOXICITY:

LD50 (RAT): >2,000 MG/KG

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE DERMAL TOXICITY

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

SKIN CORROSION/IRRITATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

RESULT: NO SKIN IRRITATION

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

SPECIES: RABBIT  
RESULT: SKIN IRRITATION

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:  
SPECIES: RABBIT  
METHOD: OECD TEST GUIDELINE 404  
RESULT: NO SKIN IRRITATION  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES SERIOUS EYE IRRITATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:  
SPECIES: RABBIT  
RESULT: NO EYE IRRITATION

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:  
RESULT: IRREVERSIBLE EFFECTS ON THE EYE  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

RESPIRATORY OR SKIN SENSITIZATION  
SKIN SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.  
RESPIRATORY SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:  
ASSESSMENT: DOES NOT CAUSE SKIN SENSITIZATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:  
TEST TYPE: LOCAL LYMPH NODE ASSAY (LLNA)  
ROUTES OF EXPOSURE: SKIN CONTACT  
SPECIES: MOUSE  
RESULT: POSITIVE

ASSESSMENT: PROBABILITY OR EVIDENCE OF SKIN SENSITIZATION IN HUMANS

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:  
TEST TYPE: MAXIMIZATION TEST (GPMT)  
ROUTES OF EXPOSURE: SKIN CONTACT  
SPECIES: GUINEA PIG  
METHOD: OECD TEST GUIDELINE 406  
RESULT: NEGATIVE  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

GERM CELL MUTAGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

GENOTOXICITY IN VITRO:

TEST TYPE: IN VITRO MAMMALIAN CELL GENE MUTATION TEST  
RESULT: NEGATIVE

GENOTOXICITY IN VIVO:

TEST TYPE: TRANSGENIC RODENT SOMATIC CELL GENE MUTATION AS-SAY  
SPECIES: RAT  
APPLICATION ROUTE: INGESTION  
RESULT: NEGATIVE

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

GENOTOXICITY IN VITRO:

TEST TYPE: BACTERIAL REVERSE MUTATION ASSAY (AMES)  
RESULT: NEGATIVE  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

GENOTOXICITY IN VIVO:

TEST TYPE:

MUTAGENICITY (IN VIVO MAMMALIAN BONE-MARROW CYTOGENETIC TEST, CHROMOSOMAL ANALYSIS)

SPECIES: RAT

APPLICATION ROUTE: INGESTION

RESULT: NEGATIVE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

CARCINOGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

SPECIES: MOUSE  
APPLICATION ROUTE: INGESTION  
EXPOSURE TIME: 103 WEEKS  
RESULT: NEGATIVE

IARC:

NO INGREDIENT 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 INGREDIENT 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 INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

REPRODUCTIVE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

EFFECTS ON FERTILITY:

TEST TYPE: TWO-GENERATION REPRODUCTION TOXICITY STUDY

SPECIES: RAT

APPLICATION ROUTE: SKIN CONTACT

RESULT: NEGATIVE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

EFFECTS ON FETAL DEVELOPMENT:

TEST TYPE: TWO-GENERATION REPRODUCTION TOXICITY STUDY

SPECIES: RAT

APPLICATION ROUTE: SKIN CONTACT

RESULT: NEGATIVE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

STOT-SINGLE EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

STOT-REPEATED EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

REPEATED DOSE TOXICITY:

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

SPECIES: RAT

NOAEL: 600 MG/KG

APPLICATION ROUTE: INGESTION

EXPOSURE TIME: 13 W

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

SPECIES: RAT

NOAEL: 500 MG/KG

APPLICATION ROUTE: INGESTION

EXPOSURE TIME: 90 D

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ASPIRATION TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

THE SUBSTANCE OR MIXTURE IS KNOWN TO CAUSE HUMAN ASPIRATION TOXICITY HAZARDS OR HAS TO BE REGARDED AS IF IT CAUSES A HUMAN ASPIRATION TOXICITY HAZARD.

-----SECTION 12. ECOLOGICAL INFORMATION -----

ECOTOXICITY:

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

TOXICITY TO FISH:

LC50 (PIMEPHALES PROMELAS (FATHEAD MINNOW)): 0.72 MG/L  
EXPOSURE TIME: 96 H

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

EC50 (DAPHNIA MAGNA (WATER FLEA)): 0.36 MG/L  
EXPOSURE TIME: 48 H

TOXICITY TO ALGAE:

ERC50 (DESMODESMUS SUBSPICATUS (GREEN ALGAE)): 150 MG/L  
EXPOSURE TIME: 72 H

TEST SUBSTANCE: WATER ACCOMMODATED FRACTION

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

M-FACTOR (ACUTE AQUATIC TOXICITY): 1

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

TOXICITY TO FISH:

LC50 (SCOPHTHALMUS MAXIMUS (TURBOT)): 3.1 MG/L  
EXPOSURE TIME: 96 H

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

EC50 (DAPHNIA MAGNA (WATER FLEA)): 0.14 MG/L  
EXPOSURE TIME: 48 H

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

TOXICITY TO ALGAE:

EC50 (PSEUDOKIRCHNERIELLA SUBCAPITATA (GREEN ALGAE)): 0.75 MG/L  
EXPOSURE TIME: 72 H

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

M-FACTOR (ACUTE AQUATIC TOXICITY): 1

TOXICITY TO BACTERIA:

EC50 (PSEUDOMONAS PUTIDA): >10,000 MG/L  
EXPOSURE TIME: 16.9 H

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

PERSISTENCE AND DEGRADABILITY:

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

BIODEGRADABILITY:

RESULT: READILY BIODEGRADABLE.

BIODEGRADATION: 80%

EXPOSURE TIME: 28 D  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

BIODEGRADABILITY:  
RESULT: READILY BIODEGRADABLE.  
BIODEGRADATION: 80 - 88%  
EXPOSURE TIME: 28 D  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

BIOACCUMULATIVE POTENTIAL:

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

PARTITION COEFFICIENT N-OCTANOL/WATER:  
LOG POW: 4.38

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

-----SECTION 13. DISPOSAL CONSIDERATIONS -----

DISPOSAL METHODS:

WASTE FROM RESIDUES: DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSE OF AS UNUSED PRODUCT.

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL.

-----SECTION 14. TRANSPORT INFORMATION -----

INTERNATIONAL REGULATION:

UNRTDG:

UN NUMBER: UN 3082

PROPER SHIPPING NAME:  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL  
4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9



PACKING GROUP: III

LABELS: 9

IATA-DGR:

UN/ID NO.: UN 3082

PROPER SHIPPING NAME:  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL  
4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9

PACKING GROUP: III

LABELS: MISCELLANEOUS

PACKING INSTRUCTION (CARGO AIRCRAFT): 964

PACKING INSTRUCTION (PASSENGER AIRCRAFT): 964

IMDG-CODE:

UN NUMBER: UN 3082

PROPER SHIPPING NAME:  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL  
4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9

PACKING GROUP: III

LABELS: 9

EMS CODE: F-A, S-F

MARINE POLLUTANT: YES

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:  
NOT APPLICABLE FOR PRODUCT AS SUPPLIED.

DOMESTIC REGULATION:

49 CFR:

UN/ID/NA NUMBER: UN 3082

PROPER SHIPPING NAME:  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL  
4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9

PACKING GROUP: III

LABELS: CLASS 9

ERG CODE: 171

MARINE POLLUTANT: YES (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE)

REMARKS:

SHIPMENT BY GROUND UNDER DOT IS NON-REGULATED; HOWEVER IT MAY BE SHIPPED PER THE APPLICABLE HAZARD CLASSIFICATION TO FACILITATE MULTI-MODAL TRANSPORT INVOLVING ICAO (IATA) OR IMO.

-----SECTION 15. REGULATORY INFORMATION -----

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW:

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 311/312 HAZARDS: ACUTE HEALTH HAZARD

SARA 302:

NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

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.

US STATE REGULATIONS:

PENNSYLVANIA RIGHT TO KNOW:

WATER	7732-18-5	70 - 90%
PUMICE	1332-09-8	5 - 10%
1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE	5989-27-5	5 - 10%

NEW JERSEY RIGHT TO KNOW:

WATER	7732-18-5	70 - 90%
PUMICE	1332-09-8	5 - 10%

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE 5989-27-5 5 - 10%

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED 68551-13-3 1 - 5%

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.

THE INGREDIENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

REACH: ALL INGREDIENTS (PRE-)REGISTERED OR EXEMPT.

TSCA:

ALL CHEMICAL SUBSTANCES IN THIS PRODUCT ARE EITHER LISTED ON THE TSCA INVENTORY OR ARE IN COMPLIANCE WITH A TSCA INVENTORY EXEMPTION.

DSL:

ALL CHEMICAL SUBSTANCES IN THIS PRODUCT COMPLY WITH THE CEPA 1999 AND NSNR AND ARE ON OR EXEMPT FROM LISTING ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL).

AICS: ALL INGREDIENTS LISTED OR EXEMPT.

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:

NFPA:

HEALTH 2  
FLAMMABILITY 1  
INSTABILITY 0  
SPECIAL HAZARD.

HMIS III:

HEALTH 2  
FLAMMABILITY 1  
PHYSICAL HAZARD 0

0 = NOT SIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

4 = EXTREME

\* = CHRONIC

SOURCES OF KEY DATA USED TO COMPILE THE MATERIAL SAFETY DATA SHEET:

INTERNAL TECHNICAL DATA, DATA FROM RAW MATERIAL SDSS, OECD ECHEM PORTAL SEARCH RESULTS AND EUROPEAN CHEMICALS AGENCY, [HTTP://ECHA.EUROPA.EU/](http://ECHA.EUROPA.EU/)

REVISION DATE: 03/02/2015

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 IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND SHALL NOT BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION OF ANY TYPE. THE INFORMATION PROVIDED RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED AT THE TOP OF THIS SDS AND MAY NOT BE VALID WHEN THE SDS MATERIAL IS USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT. MATERIAL USERS SHOULD REVIEW THE INFORMATION AND RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THEIR INTENDED MANNER OF HANDLING, USE, PROCESSING AND STORAGE, INCLUDING AN ASSESSMENT OF THE APPROPRIATENESS OF THE SDS MATERIAL IN THE USER'S END PRODUCT, IF APPLICABLE.

US / Z8



# Material Safety Data Sheet

Issuing Date 02-Sep-2011

Revision Date 01-Nov-2011

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Hi Performance White W/B Traffic  
**Product Code(s)** 7000RR  
**Recommended Use** Traffic paint  
**Product Technology** W/B

### Supplier Address

Ennis Paint Inc.  
5910 North Central Expressway  
Suite 1050  
Dallas TX 75206  
T: 800.331.8118  
800.331.8118 (For Technical Inquiries)

**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed  
Causes central nervous system depression.  
May cause skin, eye, and respiratory tract irritation  
May adversely affect liver and kidney.  
Cancer hazard

WARNING! This product contains a chemical known in the State of California to cause cancer.

**Appearance** White

**Physical State** Emulsion.

**Odor** Slight, Ammonia

### Potential Health Effects

#### Principle Routes of Exposure

Eye contact. Skin contact. Inhalation.

#### Acute Toxicity

##### Eyes

May cause irritation.

##### Skin

Harmful if absorbed through skin. May cause irritation.

##### Inhalation

Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

##### Ingestion

Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as listed under "Inhalation".

#### Chronic Effects

Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

<b>Aggravated Medical Conditions</b>	Respiratory disorders. Lungs. Pre-existing eye disorders. Skin disorders. Liver disorders. Kidney disorders. Central nervous system.
<b>Interactions with Other Chemicals</b>	Use of alcoholic beverages may enhance toxic effects.
<b>Environmental Hazard</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Titanium dioxide	13463-67-7	10-30
Methyl alcohol	67-56-1	5-10
2-Butoxyethanol	111-76-2	1-5
Ammonium hydroxide	1336-21-6	1-5
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	0.1-1
Quartz	14808-60-7	0.1-1

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	> 201°F / 93.8°C
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 2*	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

\*Indicates a chronic health hazard.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Use personal protective equipment. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup> STEL: 250 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	30/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, Total Dust;250/(%SiO <sub>2</sub> +5) mppcf TWA, respirable fraction; 10/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, respirable TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

#### Eye/Face Protection Skin and Body Protection Respiratory Protection

Safety glasses with side-shields.  
Protective gloves.  
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.

### Hygiene Measures

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White.	<b>Odor</b>	Slight, Ammonia.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Emulsion
<b>pH</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Flash Point</b>	> 201°F / 93.8°C	<b>Boiling Point/Boiling Range</b>	No information available
<b>Decomposition Temperature</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Melting Point/Range</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Flammability Limits in Air</b>	No information available.	<b>Vapor Density</b>	No data available.
<b>Solubility</b>	No information available.		
<b>Vapor Pressure</b>	No data available.		
<b>VOC (g/l)</b>	<100		



**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	None known based on information supplied.
<b>Conditions to Avoid</b>	Dust formation.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx).
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** Harmful if swallowed, inhaled, or absorbed through skin.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed heavy paraffinic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
2-Butoxyethanol	= 470 mg/kg ( Rat )	= 400 mg/kg ( Rabbit ) = 2270 mg/kg ( Rat )	= 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h
Ammonium hydroxide	= 350 mg/kg ( Rat )		
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg ( Rabbit )	83.2 mg/L ( Rat ) 4 h 64000 ppm ( Rat ) 4 h
Quartz	500 mg/kg ( Rat )		

### Chronic Toxicity

#### Chronic Toxicity

Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
2-Butoxyethanol	A3	Group 3		
Quartz	A2	Group 1	Known	X

#### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

#### IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

#### NTP: (National Toxicity Program)

Known - Known Carcinogen

#### OSHA: (Occupational Safety & Health Administration)

X - Present

#### Target Organ Effects

Respiratory system. Liver. Kidney. Central nervous system (CNS).

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol	-	LC50 96 h: 13500 - 17600 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-
2-Butoxyethanol		LC50 96 h: = 1490 mg/L static (Lepomis macrochirus) LC50 96 h: = 2950 mg/L (Lepomis macrochirus)		EC50 24 h: 1698 - 1940 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)
Ammonium hydroxide		LC50 96 h: = 8.2 mg/L (Pimephales promelas)		EC50 48 h: = 0.66 mg/L (Daphnia pulex) EC50 48 h: = 0.66 mg/L (water flea)
Petroleum distillates, solvent dewaxed heavy paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

Chemical Name	Log Pow
Methyl alcohol	-0.77
2-Butoxyethanol	0.81

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated Packaging

Do not re-use empty containers.

### US EPA Waste Number

U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream: F039		U154

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic Ignitable
Ammonium hydroxide	Toxic Corrosive

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend

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

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

### U.S. Federal Regulations

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	CAS-No	Weight %	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	2.902	1.0
Ammonium hydroxide	1336-21-6	1.2636	1.0
Methyl alcohol	67-56-1	6.9	1.0

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### 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
Ammonium hydroxide	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	Extremely Hazardous Substances RQs	RQ
Ammonium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
2-Butoxyethanol	X	X	X	X	X
Ammonium hydroxide	X	X	X		
Methyl alcohol	X	X	X	X	X
Titanium dioxide	X	X	X	-	X
Quartz	X	X	X	-	X

### International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
White mineral oil		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 360 mg/m <sup>3</sup>
Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m <sup>3</sup>
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>

### Canada

This 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 CPR.

#### WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



### Canadian National Pollutant Release Inventory (NPRI)

Chemical Name	NPRI
2-Butoxyethanol	X
Methyl alcohol	X

**Legend**

X - Listed

**16. OTHER INFORMATION**

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	02-Sep-2011
<b>Revision Date</b>	01-Nov-2011
<b>Revision Note</b>	(M)SDS sections updated. 9.

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. 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 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. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

**End of Safety Data Sheet**



## CANBERRA CORPORATION SAFETY DATA SHEET

### 1. Identification

**Product identifier:** HUSKY 1220 GLASS & CRT CLEANER

**Recommended use:** Cleaner

**Recommended restrictions:** None known.

**Company information:** CANBERRA CORP.  
3610 N. HOLLAND-SYLVANIA RD  
TOLEDO, OH 43615 United States

**Phone:** 419-841-6616

**Emergency telephone US:** 1-866-836-8855

### 2. Hazard(s) identification

**Physical hazards** Gases under pressure Liquefied gas

**Health hazards** Not classified.

**Label elements**

**Signal word** Warning

**Hazard statement** Contains gas under pressure; may explode if heated.

**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Protect from sunlight. Store in a well-ventilated place.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC):** None known.

### 3. Composition/information on ingredients

**Chemical characterization:** Mixture of water, solvents and auxiliary agents.

**Hazardous ingredients:** The exact percentage of composition has been withheld as a trade secret.

2 - 10% 2-Butoxyethanol CAS 111-76-2

2 - 10% Ethyl Alcohol CAS 64-17-5

1 - 3% Butane CAS 106-97-8

1 - 3% Propane CAS 74-98-6

### 4. First-aid measures

**Inhalation** Move to fresh air. Get medical attention if symptoms persist.

**Skin contact:** Get medical attention if irritation develops and persists.

**Eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth.

**Most important symptoms/effects, acute and delayed:** Direct contact with eyes may cause temporary irritation.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and 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** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**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. Gases hazardous to health may be formed in fire.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions:** In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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.

**General fire hazards** No unusual fire or explosion hazards noted.

**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. Wear appropriate protective equipment and clothing during clean-up. 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. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:** Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Prevent entry into waterways, sewer, basements or confined areas. 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 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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. 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. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**US. OSHA**

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3 (50 ppm)
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3 (1000 ppm)
Propane (CAS 74-98-6)	PEL	1800 mg/m3 (1000 ppm)

**US. ACGIH Threshold Limit Values**

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3 (5 ppm)
Butane (CAS 106-97-8)	TWA	1900 mg/m3 (800 ppm)
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3 (1000 ppm)
Propane (CAS 74-98-6)	TWA	1800 mg/m3 (1000 ppm)

**Exposure guidelines**

**US - California OELs: Skin designation:** 2-Butoxyethanol Can be absorbed through skin.

**US - Minnesota Haz Subs: Skin designation applies:** 2-Butoxyethanol Skin designation applies.

**US - Tennessee OELs: Skin designation:** 2-Butoxyethanol Can be absorbed through skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation:** 2-Butoxyethanol Can be absorbed through skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):** 2-Butoxyethanol Can be absorbed through skin.

**Appropriate engineering 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.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** If contact is likely, safety glasses with side shields are recommended.

**Hand protection:** For prolonged or repeated skin contact use suitable protective gloves.

**Other:** Wear suitable protective clothing.



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**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. **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:** Clear.

**Form:** Aerosol. Liquefied gas.

**Odor:** Butyl

**pH:** 9.5 - 10.5 estimated

**Melting point/freezing point:** Not available.

**Evaporation rate:** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit – lower (%):** Not available.

**Explosive limit - lower (%):** Not available.

**Vapor pressure:** 80 - 100 psig @70F estimated

**Relative density:** Not available.

**Partition coefficient (n-octanol/water):** Not available.

**Auto-ignition temperature:** Not available.

**Viscosity:** Not available.

**Deflagration density:** > 2.52 g/cm<sup>3</sup> Tested

**Aerosol spray ignition distance:** < 15 cm Tested estimated

**Physical state:** Gas.

**Color:** Colorless. Pale yellow

**Odor threshold:** Not available.

**Flash point:** -156.0 °F (-104.4 °C) Propellant estimated

**Initial boiling point and boiling range:** 212 °F (100 °C) estimated

**Flammability (solid, gas):** Not available.

**Flammability limit – upper (%):** Not available.

**Explosive limit - upper (%):** Not available.

**Vapor density:** Not available.

**Solubility (water):** Not available.

**Decomposition temperature:** Not available.

**Specific gravity:** 0.97 estimated

## **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.

**Incompatible materials:** Strong oxidizing agents.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

**Hazardous decomposition products:** No hazardous decomposition products are known.

## **11. Toxicological information**

**Information on likely routes of exposure:**

**Ingestion:** Expected to be a low ingestion hazard.

**Inhalation:** Prolonged inhalation may be harmful.

**Skin contact:** No adverse effects due to skin contact are expected. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

**Eye contact:** Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects:**

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation:** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization:** Not a respiratory sensitizer. **Skin sensitization:** Product is not expected to cause skin sensitization.

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity:**

2-Butoxyethanol                      3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:** Not classified.

**Specific target organ toxicity - repeated exposure:** Not classified.

**Aspiration hazard:** Not an aspiration hazard. Not likely, due to the form of the product.

**Chronic effects:** Prolonged inhalation may be harmful. May be harmful if absorbed through skin. 2-Butoxy ethanol may be absorbed through skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Product number 1000014505

## **12. Ecological information**

**Ecotoxicity:** Harmful to aquatic life.

**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)**

2-Butoxyethanol 0.83      Butane 2.89      Ethyl Alcohol -0.31      Propane 2.36

**Mobility in soil:** No data available.

**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 material.

## **13. Disposal considerations**

**Disposal instructions:** Consult authorities before disposal. 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.

**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 site for recycling or disposal. Emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## **14. Transport information**

**DOT:**      **UN number:** UN1950      **UN proper shipping name:** Aerosols      **Class:** 2.2      **Packing group:** N/A

**Special precautions for user:** Read safety instructions, SDS and emergency procedures before handling.

**Packaging exceptions:** Product meets the exception requirements of section 173.306 and may be shipped as a limited quantity.

## **15. Regulatory information**

**US federal regulations:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

**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 listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard – No      Delayed Hazard – No      Fire Hazard - No

Pressure Hazard – Yes      Reactivity Hazard - No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** No

**SARA 313 (TRI reporting):** 2-Butoxyethanol

**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, Propane

**Safe Drinking Water Act (SDWA):** Not regulated.

**US state regulations**

**US. Massachusetts RTK - Substance List      US. Rhode Island RTK**

**US. New Jersey Worker and Community Right-to-Know Act**

**US. Pennsylvania Worker and Community Right-to-Know Law**

2-Butoxyethanol, Butane, Ethyl Alcohol, Propane

**US. California Proposition 65:**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## **16. Other information, including date of preparation or last revision**




**Issue date** 01-05-2015

**Revision date** N/A

**References** EPA: AQUIRE database, NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

**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.

<b>WHMIS</b> 	<b>Personal Protection</b> 	<b>TDG Road/Rail</b> 
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## Section 1. Product Identification and Uses

<b>Common/Trade name</b>	<b>Husky 2-Cycle Engine Oil</b>						
<b>Synonyms</b>	Not available.			<b>CAS #</b>	Not available.		
<b>Chemical family</b>	A mixture of refined petroleum lubricant basestocks and petroleum solvent plus additives.				<b>DSL</b>	All components of this product are either on the Domestic Substances List (DSL) or are exempt.	
<b>Supplier</b>	Husky Oil Marketing Company PO Box 6525 Station D Calgary, Alberta T2P 3G7 (403) 298-6111			<b>Manufacturer</b>	Imperial Oil (Products Division) 111 St Clair Ave West Toronto, Ontario, Canada M5W 1K3 416-968-4111 Emergency 24 hr: 519-339-2145 Technical info. 800-268-3183		
<b>Material uses</b>	Premium quality ashless engine oil for use in air and liquid-cooled, premixed and oil injected, snowmobile engines.						

## Section 2. First Aid Measures

<b>Eye contact</b>	Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
<b>Skin contact</b>	Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse. If irritation persists, seek medical attention.
<b>Inhalation</b>	Vapour pressure of this material is low and as such inhalation under normal conditions is usually not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

## Section 3. Hazardous Ingredients

Name	CAS #	<i>Exposure Limits</i>						% by Weight
		TWA (ppm)	TWA (Mg/M3)	STEL (ppm)	STEL (Mg/M3)	CEIL (ppm)	CEIL (Mg/M3)	
Light hydrotreated distillate	8052-41-3	100						60% v/v
<b>Toxicity values of the hazardous ingredients</b>	<b>Husky 2-Cycle Engine Oil</b> LD50: Not available. LC50: Not available.							

## Section 4. Physical Data

<b>Physical state and appearance</b>	Liquid. Dark blue oil.
<b>Odor</b>	Petroleum odour.
<b>pH (1% soln/water)</b>	Not applicable.
<b>Odor threshold</b>	Not available.
<b>Evaporation rate</b>	< 0.1 (1= n-butylacetate)

**Continued on Next Page**

Freezing point	Not available.
Boiling point	150°C- 615°C
Specific gravity	Not available.
Volatility	Not available.
Vapor density	Not available.
Vapor pressure	4.2 KPa at 20 deg C
Water/oil dist. coeff.	Not available.
Solubility	negligible in water.
Molecular Weight	Not available.
Melting Point	Not available.
Density	Not available.

**Section 5. Fire and Explosion Data**

Auto-ignition temperature	Not available.
Flash points	CLOSED CUP: 50°C (122°F) (Pensky-Martens.)
Flammable limits	Not available.
Extinguishing Media	Use foam, dry chemical or water spray to extinguish fire.
Special fire fighting procedures	Use water spray to cool fire exposed surfaces and to protect personnel. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover. A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.
Flammability	Combustible liquid; may form combustible mixtures at or above the flash point. Toxic gases will form upon combustion.  <b>Remark</b> No additional remark.
Risks of explosion	Static Discharge; material may accumulate static charges which may cause a fire. This product is not sensitive to mechanical impact.  <b>Remark</b> No additional remark.

**Section 6. Reactivity Data**

Stability	This product is stable. Hazardous polymerization will not occur.
Hazardous decomp. products	Hazardous decomposition: None. Hazardous combustion products: smoke, carbon monoxide, carbon dioxide.
Reactivity	Incompatible materials: Strong oxidizing agents.  <b>Remark</b> No additional remark.

**Section 7. Toxicological Properties**

Routes of entry	Eye contact. Ingestion. Inhalation. Skin contact.
TLV	ACIGH recommends: for oil mists, 5 mg.m3 For stoddard solvent, 100 ppm, (525 mg/m3) Local regulated limits may vary.
Toxicity to animals	Based on animal testing data from similar material and product the acute toxicity of this product is expected to be : Oral LD50 > 5000 mg/kg (rat) Dermal LD50 > 2000 mg/kg (rabbit) Inhalation: LC50 > 2500 mg/M3 (Rat).  <b>Remark</b>

**Continued on Next Page**

No additional remark.

**Chronic effects**

Not available.

**Remark**

No additional remark.

**Acute effects**

No additional comments.

**Ingestion**

Low toxicity.

**Skin**

Low Toxicity. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**Eyes**

Slightly irritating, but will not injure eye tissue.

**Inhalation**

Negligible hazard at normal temperatures (up to 38 deg C). Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritation to the eyes nose, throat and lungs. High vapour concentration are irritating to the eyes, nose, throat and lungs; may cause headaches and dizziness; may be anesthetic and may cause other central nervous system effects. Avoid breathing vapours or mists.

**Remark**

No additional remark.

**Synergistic materials** Not available.

**Section 8. Preventive Measures**

**Waste disposal**

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional actions necessary to prevent and remedy the adverse effects of the spill.

**Storage**

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material. Do not handle or store near an open flame, sources of heat, or sources of ignition. Do not breath gas, vapour or mist. Empty containers may contain product residue, Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

**Ventilation**

The use of local exhause ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

**Spill and leak**

**Land Spill:**  
Eliminate source of ignition. Keep public away. Prevent additional discharge of materal, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustibile materials such as sawdust. Recover by pumping (use and explosion proof motor or hand pump), or by using a suitable absorbent.

**Water spill:**  
Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

**Section 9. Classification/Regulatory Information**

**TDG road / rail**

TDG CLASS 3: Flammable liquid with a flash point less than or equal to 60.5 C(140.9 F). Closed cup test method..



Shipping Name: PETROLEUM OIL UN 1268

**Remark**

Not applicable.

**WHMIS**

WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).

**Continued on Next Page**



**Remark**

Please be aware that other regulations may apply.

**Other**

No additional remark.  
Refer to federal, provincial, and local legislation for further requirements.

**Section 10. Protective Clothing**

**Eye** The selection of personal protective equipment varies, depending upon conditions of use. Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields

**Skin** Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

**Respiratory** Where concentrations in air may exceed the occupational exposure limits, and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

**Other** As required by the situation according to your companies policies and procedures. Contact your supervisor for direction.



**Section 11. Preparation Information**

**References** -Manufacturer's Material Safety Data Sheet.

**MSDS Status**

**Acronyms:** TLV = Threshold Limit Value N/AP = Not applicable N/AV = Not Available COC = Cleveland Open Cup PMCC = Pensky Martens Closed Cup

Validated by Husky Corporate Hygiene on 3/19/2009.

Verified by Husky Corporate Hygiene.

Supersedes: 03/19/2003

Printed 3/9/2009.

**Emergency Phone # 403-262-2111**

*While the company believes the data set forth herein are accurate as of the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.*



## CANBERRA CORPORATION SAFETY DATA SHEET

### 1. Identification

**Product Identifier:** HUSKY 725 WATER BASED DUST MOP TREATMENT

**Application or recommended use:** Dust mop treatment

**Restrictions on use:** Do not use in any fashion not specified on the product label.

**Manufacturer / supplier:** Canberra Corporation

3610 N. Holland-Sylvania Rd.

Toledo, Ohio 43615 USA

**Telephone:** 419-841-6616 **Emergency phone:** 800-832-8992 **National Poison Center:** 800-222-1222

### 2. Hazards Identification

**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200.

Eye Damage/Irritation - Category 2A

Flammable Liquids - Category 3

#### Label elements:



Symbol:

Signal word:

**WARNING**

Hazard statements:

Causes serious eye irritation.

Flammable liquid and vapor

Precautionary statements: Wash hands, face and any skin contact thoroughly after handling.

Wear protective gloves/eye protection/face protection.

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

Keep container tightly closed. Ground container and receiving equipment.

Use explosion proof electrical equipment. Use non-sparking tools.

Take precautionary measures against static discharge.

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 (or Hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

See 4. First-Aid Measures for specific treatment.

In case of fire: Use foam or water spray to extinguish.

Store in a cool, well-ventilated place.

Dispose of contents/container to an approved disposal facility.

#### Other Hazards:

Harmful if swallowed.

### 3. Composition / Information on Ingredients

**Chemical characterization:** Mixture of water, detergents, water soluble solvents and auxiliary agents.

**Hazardous ingredients:** The exact percentage of composition has been withheld as a trade secret.

5 - 10% \*2-(2-Butoxyethoxy)ethanol CAS 112-34-5, EINECS/ELINCS 203-961-6

1 - 5% \*2-(2-Ethoxyethoxy)ethanol CAS 111-90-0, EINECS/ELINCS 203-919-7

1 - 5% 2-Propanol CAS 67-63-0, EINECS/ELINCS 200-661-7

**Other ingredients (> 1%):**

> 87% Water CAS 7732-18-5, EINECS/ELINCS 231-791-2

### 4. First-Aid Measures

**Symptoms:** Irritation of affected areas. Causes eye irritation.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move person to fresh air. If respiratory irritation or dizziness occurs, seek immediate medical assistance.

**Skin Contact:** Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water. If irritation occurs, get medical advice/attention.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 5-10 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. If eye irritation persists, get medical advice/attention.

#### **4. First-Aid Measures (cont.)**

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration.

**Note to Physician:** Treat exposed patients symptomatically.

#### **5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide or foam extinguishing agents. In case of fire, keep containers cooled with water spray. **Unsuitable Extinguishing Media:** High pressure water jet.

**Specific hazards in case of fire:** None known.

**Special Fire Fighting Precautions:** Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

#### **6. Accidental Release Measures**

**Emergency Procedures:** Depending on the extent of release, consider the need for restriction of access to spill area.

**Personal Precautions:** Do not eat, drink or smoke during clean up. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

**Environmental Precautions:** Prevent spills from entering storm sewers/drains or contact with soil.

**Clean up Methods:** Small spills may be wiped up and rinsed with water. For larger spills, contain spill with inert material (sand, clay). Transfer material to labeled containers for recovery or proper disposal. After removal, flush area with water. Follow good industrial hygiene practices.

#### **7. Handling and Storage**

**Precautions for Safe Handling:** Read label before use. Avoid contact with eyes. Wear eye protection, face protection. Use product only according to label directions. If unsure about safe use, contact your supervisor. Do not eat, drink or smoke while using this product. Wash hands, face and any skin contact thoroughly after handling.

**Conditions for Safe Storage:** Keep out of reach of children. Do not contaminate water, food or feed by storage and disposal. Store in tightly closed original container in a cool (10° - 30°C), dry, well-ventilated area.

**Incompatibility:** Oxidizers.

#### **8. Exposure Controls / Personal Protection**

**Components with occupational exposure limits:**

Component	Reference	TWA (8 hr)	PEL (8 hr)	STEL
2-Propanol	ACGIH	200 ppm		400ppm
	OSHA		400 ppm	

**Engineering Controls:** Proper ventilation in accordance with good industrial hygiene should be provided.

**Personal Protective Equipment**

**Respiratory:** Respiratory protection is not necessary under normal conditions of use.

**Gloves:** Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established.

**Eye Protection:** Chemical resistant goggles or face protection.

**Other:** Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

#### **9. Physical and Chemical Properties**

**Physical State** - Liquid

**Color** - Light Blue

**Odor** - Lemon

**Odor Threshold** - Not available

**Boiling Point** - 212°F

**Decomposition temperature** - No data available

**Freezing Point** - 32°F

**pH (Neat)** - 5.5 - 7.5

**Relative Density** - 0.990

**Evaporation Rate** - Similar to water

**Auto-ignition temperature** - Not applicable

**Flash Point** - 138°F (ASTM D3278)

**Flammability** - No data available

**Flammability Limits** - No data available

**Partition coefficient** - Not applicable

**Solubility (Water)** - Complete

**Vapor Density** - No data available

**Vapor Pressure** - No data available

**Viscosity** - Water thin

**% VOC** - 4.0 (Excluding exempt material)

#### **10. Stability and Reactivity**

**Reactivity:** No specific reactivity test data is available for this mixture. Under normal conditions of storage and use, hazardous reactions are not expected. **Incompatible materials:** Oxidizers.

**Chemical stability:** This product is stable at ambient temperatures and pressures.

**Conditions to avoid:** Temperatures above 50°C or below 10°C.

**Hazardous decomposition products:** None known.



**11. Toxicological Information**

**Acute Toxicity:** Toxicity data is not available for this mixture. Data below are estimates based on summation methods.

Test	Results	Classification (A.0.4.1(c))	Basis (A.1.3.6.1)
Oral	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Dermal	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Inhalation	> 20 mg/L	Not applicable	Ingredient literature (Additive formula)
Eye Damage/Irritation	Irritation	Category 2A	Ingredient literature
Skin Damage/Irritation	Not applicable	Not applicable	Ingredient literature

**Summary:** Skin and eye contact are most likely routes of exposure. Causes serious eye irritation

**Subchronic/Chronic Toxicity:**

Test	Results	Classification	Basis
Skin Sensitization	Not a sensitizer	Not applicable	Ingredient literature.

**Summary:** Repeated or prolonged contact causes serious eye irritation.

**Carcinogens** - Ingredients are not listed on the NTP Report on Carcinogens, IARC Monographs or by OSHA

**Other data** - No other toxicological information is available for this mixture.

**12. Ecological Information**

This material has not been tested for acute environmental effects.

**Persistence and degradability:** Material is not persistent. All organic components > 1% are readily biodegradable.

**Bio-accumulative potential:** No evidence to suggest bio-accumulation will occur.

**Mobility:** Accidental spillage may lead to penetration of soil and groundwater.

**13. Disposal Considerations**

Do not contaminate water, food or feed by disposal. If these materials cannot be disposed of by use according to label directions, contact your State Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. Rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. If container is one gallon or less, wrap empty container in plastic bag and discard in trash.

**14. Transport Information**

<b>Proper Shipping Name:</b> Not regulated	<b>RQ</b> - Not Applicable
<b>Shipping emergency phone:</b> 800-424-9300	
<b>Transport hazard class:</b> Not Applicable	<b>Hazard Label:</b> Not Applicable
<b>Packing Group:</b> Not Applicable	<b>Emergency Guide No.:</b> Not Applicable <b>Marine Pollutant:</b> No

**15. Regulatory Information**

**Inventory status:** All components are listed on TSCA(US), EINECS/ELINCS(EU), DSL(Canada), AICS(Australia), ENCS(Japan).

**OSHA Hazard Communication Standard:** This product meets the §1910.1200 definition of a "Hazardous Chemical".

**Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Sections 311 and 312**

<b>Immediate (Acute) Health Hazard</b>	Yes	<b>Delayed (Chronic) Health Hazard</b>	No
<b>Fire Hazard</b>	Yes	<b>Reactive Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No		

**Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313**

\*Chemicals marked with an asterisk in "**3. Composition/Information on Ingredients**" are subject to reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372.

**Pennsylvania/New Jersey/Massachusetts Right to Know**

See "**3. Composition/Information on Ingredients**" for hazardous and top five ingredients over 1% (w/w).

**California Proposition 65:** This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**16. Other information****Date issued:** 31. 12. 2014

F725-001 Revision: N/A

**Disclaimer: No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document.** The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. **Prepared by:** R&D, Canberra Corporation

# Safety Data Sheet



## 1. Identification

<b>Product Name:</b>	IC LSPR 12PK SILVER MARKING PAINT	<b>Revision Date:</b>	12/13/2016
<b>Product Identifier:</b>	239007	<b>Supercedes Date:</b>	8/30/2016
<b>Product Use/Class:</b>	Marking Paint/Aerosol		
<b>Supplier:</b>	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	<b>Manufacturer:</b>	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
<b>Preparer:</b>	Regulatory Department		
<b>Emergency Telephone:</b>	24 Hour Hotline: 847-367-7700		

## 2. Hazard Identification

### Classification

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

33% of the mixture consists of ingredient(s) of unknown acute toxicity.

### GHS HAZARD STATEMENTS

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Eye Irritation, category 2	H319	Causes serious eye irritation.

### GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P201	Obtain special instructions before use.
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 and national regulations.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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.

### 3. Composition/Information On Ingredients

#### HAZARDOUS SUBSTANCES

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt.% Range</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Propane	74-98-6	10-25	GHS04	H280
Acetone	67-64-1	10-25	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	10-25	GHS02-GHS07	H226-336
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10-25	GHS08	H304
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
Aluminum Flake	7429-90-5	2.5-10	GHS02	H228-261
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-351-373
2-n-butylamine	111-92-2	0.1-1.0	GHS02-GHS06	H226-301-311-330

### 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:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. 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.

**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, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! 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. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat due to buildup of steam. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Evacuate area and fight fire from a safe distance. Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. 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. 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. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. 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 in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F. 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. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

## 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	25.0	N.E.	N.E.	1000 ppm	N.E.
Acetone	67-64-1	20.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	15.0	50 ppm	150 ppm	150 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	15.0	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	5.0	100 ppm	150 ppm	100 ppm	N.E.
Aluminum Flake	7429-90-5	5.0	1 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
2-n-butylamine	111-92-2	1.0	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. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**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 organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**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

<b>Appearance:</b>	Aerosolized Mist	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Solvent Like	<b>Odor Threshold:</b>	N.E.
<b>Relative Density:</b>	0.738	<b>pH:</b>	N.A.
<b>Freeze Point, °C:</b>	N.D.	<b>Viscosity:</b>	N.D.
<b>Solubility in Water:</b>	Slight	<b>Partition Coefficient, n-octanol/ water:</b>	N.D.
<b>Decomposition Temp., °C:</b>	N.D.	<b>Explosive Limits, vol%:</b>	0.9 - 13.0
<b>Boiling Range, °C:</b>	-37 - 150	<b>Flash Point, °C:</b>	-96
<b>Flammability:</b>	Supports Combustion	<b>Auto-ignition Temp., °C:</b>	N.D.
<b>Evaporation Rate:</b>	Faster than Ether	<b>Vapor Pressure:</b>	N.D.
<b>Vapor Density:</b>	Heavier than Air		

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Flammable hydrogen gas will evolve when product comes in contact with water or damp air. Heat will be generated. The amount of heat generated will depend upon the volume of material in contact. Avoid temperatures above 120°F (49° C). Avoid all possible sources of ignition. 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:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. May cause skin irritation. Allergic reactions are possible.

**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. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** 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). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. 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>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
74-98-6	Propane	N.I.	N.I.	658 mg/L Rat
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
106-97-8	n-Butane	N.I.	N.I.	658 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
111-92-2	2-n-butylamine	189 mg/kg Rat	768 mg/kg Rabbit	1.15 mg/L Rat

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.

### 14. Transport Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
<b>UN Number:</b>	N.A.	1950	1950	N.A.
<b>Proper Shipping Name:</b>	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
<b>Hazard Class:</b>	N.A.	2.1	2.1	N.A.
<b>Packing Group:</b>	N.A.	N.A.	N.A.	N.A.
<b>Limited Quantity:</b>	Yes	Yes	Yes	Yes

### 15. Regulatory Information

#### U.S. Federal Regulations:

##### CERCLA - 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:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

##### 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:

<u>Chemical Name</u>	<u>CAS-No.</u>
Xylenes (o-, m-, p- isomers)	1330-20-7
Aluminum Flake	7429-90-5
Ethylbenzene	100-41-4

##### Toxic Substances Control Act:

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****HMIS RATINGS**

Health: 2\*      Flammability: 4      Physical Hazard: 0      Personal Protection: X

**NFPA RATINGS**

Health: 2      Flammability: 4      Instability: 0

VOLATILE ORGANIC COMPOUNDS, g/L: 536

SDS REVISION DATE: 12/13/2016

REASON FOR REVISION: Substance Hazard Threshold % Changed  
Substance and/or Product Properties Changed in Section(s):  
02 - Hazard Identification  
03 - Composition/Information on Ingredients  
11 - Toxicological 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.



# SAFETY DATA SHEET

A03801004

## Section 1. Identification

**Product name** : KRYLON® Industrial QUIK-MARK™ Water-Based Inverted Marking Paint (APWA)  
Utility Yellow

**Product code** : A03801004

**Other means of identification** : Not available.

**Product type** : Aerosol.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Manufacturer** : Krylon Products Group  
101 Prospect Avenue NW  
Cleveland, OH 44115

**Emergency telephone number of the company** : (216) 566-2917

**Product Information Telephone Number** : (800) 247-3266

**Regulatory Information Telephone Number** : (216) 566-2902

**Transportation Emergency Telephone 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  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - 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) (lungs) - Category 1  
ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 26.3%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 37.2%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 21.8%

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger

**Date of issue/Date of revision** : 12/1/2017    **Date of previous issue** : 9/5/2017    **Version** : 10    1/15

A03801004    KRYLON® Industrial QUIK-MARK™ Water-Based Inverted Marking Paint (APWA)  
Utility Yellow

## Section 2. Hazards identification

- Hazard statements** : Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes serious eye irritation.  
Causes skin irritation.  
Suspected of damaging the unborn child.  
Suspected of causing 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. (lungs)
- Precautionary statements**
- 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. 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 hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
- 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: 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 and birth defects or other reproductive harm. 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 classified** : DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

## 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
Toluene	10.87	108-88-3
Propane	9.52	74-98-6
Light Aliphatic Hydrocarbon	8	64742-47-8
Butane	4.48	106-97-8
Calcium Carbonate	2.33	1317-65-3
Lt. Aliphatic Hydrocarbon Solvent	1.99	64742-89-8
Talc	1.01	14807-96-6
Titanium Dioxide	0.69	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## 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.

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. 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** : Causes skin irritation.
- 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/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
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.
- 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.
- 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. 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

## Section 6. Accidental release measures

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).

### 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.

**Conditions for safe storage, including any incompatibilities** : 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)

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Toluene	<p><b>OSHA PEL Z2 (United States, 2/2013).</b>                      TWA: 200 ppm 8 hours.                      CEIL: 300 ppm                      AMP: 500 ppm 10 minutes.  <b>NIOSH REL (United States, 10/2016).</b>                      TWA: 100 ppm 10 hours.                      TWA: 375 mg/m<sup>3</sup> 10 hours.                      STEL: 150 ppm 15 minutes.                      STEL: 560 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 3/2016).</b>                      TWA: 20 ppm 8 hours.</p>
Propane	<p><b>NIOSH REL (United States, 10/2016).</b>                      TWA: 1000 ppm 10 hours.                      TWA: 1800 mg/m<sup>3</sup> 10 hours.  <b>OSHA PEL (United States, 6/2016).</b>                      TWA: 1000 ppm 8 hours.                      TWA: 1800 mg/m<sup>3</sup> 8 hours.</p>
Light Aliphatic Hydrocarbon	<p><b>OSHA PEL (United States, 6/2016).</b>                      TWA: 100 ppm 8 hours.                      TWA: 400 mg/m<sup>3</sup> 8 hours.</p>
Butane	<p><b>NIOSH REL (United States, 10/2016).</b>                      TWA: 800 ppm 10 hours.                      TWA: 1900 mg/m<sup>3</sup> 10 hours.  <b>ACGIH TLV (United States, 3/2016).</b>                      STEL: 1000 ppm 15 minutes.</p>
Calcium Carbonate	<p><b>NIOSH REL (United States, 10/2016).</b>                      TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction                      TWA: 10 mg/m<sup>3</sup> 10 hours. Form: Total  <b>OSHA PEL (United States, 6/2016).</b>                      TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction                      TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>
Lt. Aliphatic Hydrocarbon Solvent Talc	<p>None.  <b>NIOSH REL (United States, 10/2016).</b>                      TWA: 2 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction  <b>ACGIH TLV (United States, 3/2016).</b>                      TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p>
Titanium Dioxide	<p><b>ACGIH TLV (United States, 3/2016).</b>                      TWA: 10 mg/m<sup>3</sup> 8 hours.  <b>OSHA PEL (United States, 6/2016).</b>                      TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>

### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
toluene	<p><b>CA Alberta Provincial (Canada, 4/2009).</b>  <b>Absorbed through skin.</b>                      8 hrs OEL: 50 ppm 8 hours.                      8 hrs OEL: 188 mg/m<sup>3</sup> 8 hours.  <b>CA British Columbia Provincial (Canada, 7/2016).</b>                      TWA: 20 ppm 8 hours.  <b>CA Ontario Provincial (Canada, 7/2015).</b>                      TWA: 20 ppm 8 hours.  <b>CA Québec Provincial (Canada, 1/2014).</b>  <b>Absorbed through skin.</b></p>



## Section 8. Exposure controls/personal protection

Propane	<p>TWAEV: 50 ppm 8 hours.          TWAEV: 188 mg/m<sup>3</sup> 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</b>          STEL: 60 ppm 15 minutes.          TWA: 50 ppm 8 hours.  <b>CA Alberta Provincial (Canada, 4/2009).</b>          8 hrs OEL: 1000 ppm 8 hours.  <b>CA British Columbia Provincial (Canada, 7/2016).</b>          TWA: 1000 ppm 8 hours.  <b>CA Québec Provincial (Canada, 1/2014).</b>          TWAEV: 1000 ppm 8 hours.          TWAEV: 1800 mg/m<sup>3</sup> 8 hours.  <b>CA Ontario Provincial (Canada, 7/2015).</b>          TWA: 1000 ppm 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b>          STEL: 1250 ppm 15 minutes.          TWA: 1000 ppm 8 hours.</p>
Solvent naphtha (petroleum), medium aliph.	<p><b>CA Québec Provincial (Canada, 1/2014).</b>          TWAEV: 400 ppm 8 hours.          TWAEV: 1590 mg/m<sup>3</sup> 8 hours.  <b>CA Ontario Provincial (Canada, 7/2015).</b>          TWA: 525 mg/m<sup>3</sup> 8 hours.</p>
Butane	<p><b>CA Alberta Provincial (Canada, 4/2009).</b>          8 hrs OEL: 1000 ppm 8 hours.  <b>CA British Columbia Provincial (Canada, 7/2016).</b>          TWA: 600 ppm 8 hours.          STEL: 750 ppm 15 minutes.  <b>CA Québec Provincial (Canada, 1/2014).</b>          TWAEV: 800 ppm 8 hours.          TWAEV: 1900 mg/m<sup>3</sup> 8 hours.  <b>CA Ontario Provincial (Canada, 7/2015).</b>          TWA: 800 ppm 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b>          STEL: 1250 ppm 15 minutes.          TWA: 1000 ppm 8 hours.</p>

### Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
toluene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 20 ppm 8 hours.
Propane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 ppm 8 hours.
Butane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 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.

## Section 8. Exposure controls/personal protection

### 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.
- 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 anti-static 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** : 7
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 2 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 0.9%  
Upper: 9.5%
- Vapor pressure** : 101.3 kPa (760 mm Hg) [at 20°C]
- Vapor density** : 1 [Air = 1]
- Relative density** : 0.87
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): <0.205 cm<sup>2</sup>/s (<20.5 cSt)



## Section 9. Physical and chemical properties

**Molecular weight** : Not applicable.

**Aerosol product**

**Type of aerosol** : Spray

**Heat of combustion** : 13.913 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).

**Incompatible materials** : No specific data.

**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
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
Butane	LD50 Oral	Rat	636 mg/kg	-
	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	870 Micrograms	-
	Skin - Mild irritant	Pig	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 250 microliters	-
	Skin - Moderate irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Talc	Skin - Mild irritant	Human	-	500 milligrams	-
			-	72 hours 300 Micrograms Intermittent	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-

**Sensitization**

Not available.

**Mutagenicity**

## Section 11. Toxicological information

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Talc	-	3	-
Titanium Dioxide	-	2B	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aliphatic Hydrocarbon	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Calcium Carbonate	Category 3	Not applicable.	Respiratory tract irritation
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Talc	Category 1	Inhalation	lungs

### Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

**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** : Causes skin irritation.
- 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
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
  - irritation
  - redness
  - 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 effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

- General** : Causes damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : 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	4309 mg/kg

**Section 12. Ecological information**

**Toxicity**

Product/ingredient name	Result	Species	Exposure
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
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours

**Persistence and degradability**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Toluene	-	90	low
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high

**Mobility in soil**






**Soil/water partition coefficient (K<sub>oc</sub>)** : 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
<b>UN number</b>	UN1950	UN1950	UN1950	UN1950	UN1950
<b>UN proper shipping name</b>	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
<b>Transport hazard class(es)</b>	2.1 	2.1 	2.1 	2.1 	2.1 
<b>Packing group</b>	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.
<b>Additional information</b>	-  <b>ERG No.</b> 126	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).  <b>ERG No.</b> 126	-  <b>ERG No.</b> 126	-	<b>Emergency schedules</b> F-D, S-U

**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 the IBC Code :** Not available.

**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.)

Health	*	2
Flammability		2
Physical hazards		0

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

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
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	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) (lungs) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

### History

Date of printing : 12/1/2017

Date of issue/Date of revision : 12/1/2017

Date of previous issue : 9/5/2017

Version : 10

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

Date of issue/Date of revision	: 12/1/2017	Date of previous issue	: 9/5/2017	Version	: 10	14/15
A03801004 KRYLON® Industrial QUIK-MARK™ Water-Based Inverted Marking Paint (APWA) Utility Yellow						

## Section 16. Other information

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.

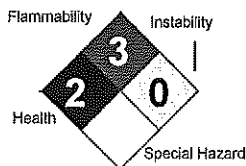
# MATERIAL SAFETY DATA SHEET

## Lacquer Thinner

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HEALTH	*	2
FLAMMABILITY		3
PHYSICAL		1
PPE		X



Printed: 04/01/2013  
Revision: 04/01/2013  
Supersedes Revision: 06/08/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** 1605.48  
**Product Name:** Lacquer Thinner  
**Manufacturer Information**  
**Company Name:** W. M. Barr  
 2105 Channel Avenue  
 Memphis, TN 38113  
**Phone Number:** (901)775-0100  
**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346  
**Information:** W.M. Barr Customer Service (800)398-3892  
**Web site address:** www.wmbarr.com  
**Preparer Name:** W.M. Barr EHS Dept (901)775-0100  
**Intended Use:** Paint thinning  
**Synonyms**  
 GML170, QML170, CML170, QML170L, DML170, GML170P, GML170PTMP, G17024, PA12782, Q17014, QJLT70, GJLT70, CJLT70  
**Revision Date:** 04/01/2013

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA TWA	ACGIH TWA	Other Limits
1. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	15.0 -40.0 %	200 ppm	200 ppm	No data.
2. Toluene {Benzene, Methyl-; Toluol}	108-88-3	1.0 -5.0 %	200 ppm	50 ppm	No data.
3. Acetone {2-Propanone}	67-64-1	10.0 -30.0 %	1000 ppm	500 ppm	No data.
4. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	111-76-2	1.0 -5.0 %	50 ppm	20 ppm	No data.
5. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	7.0 -13.0 %	400 ppm	400 ppm	No data.
6. Light aliphatic solvent naphtha (petroleum)	64742-89-8	15.0 -40.0 %	No data.	No data.	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PC1400000	No data.	No data.	250 ppm	No data.
2. Toluene {Benzene, Methyl-; Toluol}	XS5250000	500 ppm/(10min)	300 ppm	No data.	No data.
3. Acetone {2-Propanone}	AL3150000	No data.	No data.	750 ppm	No data.
4. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	KJ8575000	No data.	No data.	No data.	No data.
5. Acetic acid, ethyl ester {Ethyl acetate}	AH5425000	No data.	No data.	No data.	No data.
6. Light aliphatic solvent naphtha (petroleum)	NA	No data.	No data.	No data.	No data.

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

Danger! Extremely flammable. Poison. May be fatal or cause blindness if swallowed. Vapor harmful.

Use only with adequate ventilation to prevent buildup of vapors. If the work area is not well ventilated, do not use this product.



**MATERIAL SAFETY DATA SHEET**  
**Lacquer Thinner**

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Keep away from heat, sparks, flame and all other sources of ignition. Vapors may cause flash fire or ignite explosively.

Do not use in areas where vapors can accumulate and concentrate such as basements, bathrooms and small, enclosed areas. Whenever possible use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness – STOP – ventilation is inadequate. Leave area immediately.

**Potential Health Effects (Acute and Chronic)**

**Inhalation Acute Exposure Effects:**

Vapor harmful. May cause dizziness; headache; watering of eyes; irritation of respiratory tract; weakness; drowsiness; nausea; numbness in fingers, arms and legs; depression of central nervous system; loss of appetite; fatigue; hallucinations; light headedness; visual disturbances; giddiness and intoxication; sleepiness; cough and dyspnea; cold, clammy extremities; diarrhea; vomiting; dilation of pupils; spotted vision. Severe overexposure may cause convulsions; unconsciousness; coma; and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal.

**Skin Contact Acute Exposure Effects:**

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

**Eye Contact Acute Exposure Effects:**

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes.

**Ingestion Acute Exposure Effects:**

Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May cause dizziness; headache; nausea; vomiting; burning sensation in mouth, throat, and stomach; loss of coordination; depression of the central nervous system; narcosis; stupor; gastrointestinal irritation; liver, kidney, and heart damage; diarrhea; loss of appetite; coma and death. May produce symptoms listed under inhalation.

**Chronic Exposure Effects:**

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause conjunctivitis; gastric disturbances; insomnia; dizziness; headache; weakness; fatigue; nausea; heart palpitations; skin irritation; numbness in hands and feet; permanent central nervous system changes; some loss of memory; pancreatic damage; giddiness; visual impairment or blindness; kidney or liver damage; and death. May cause symptoms listed under inhalation.

**Target Organs:** Central Nervous System, Liver, Kidney, Heart, Stomach, Respiratory System

**Primary Routes of Entry:** Inhalation, Ingestion, Skin Absorption

**Signs and Symptoms Of Exposure**

See Potential Health Effects.

**Medical Conditions Generally Aggravated By Exposure**

Diseases of the skin, eyes, liver, kidneys, central nervous system and respiratory system.

**OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

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### 4. FIRST AID MEASURES

#### Emergency and First Aid Procedures

##### Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

##### Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

##### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

##### Ingestion:

If swallowed, do not induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

#### Note to Physician

Poison. This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Call your local poison control center for further information.

### 5. FIRE FIGHTING MEASURES

**Flammability Classification:** NFPA Class IB

**Flash Pt:** -4.0 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data available.

#### Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

#### Flammable Properties and Hazards

No data available.

#### Hazardous Combustion Products

Carbon monoxide and carbon dioxide.

#### Extinguishing Media

Use carbon dioxide, dry powder, or foam.

#### Unsuitable Extinguishing Media

Do not use a solid water stream, as this may spread the fire.

### 6. ACCIDENTAL RELEASE MEASURES

#### Steps To Be Taken In Case Material Is Released Or Spilled

Vapors may cause flash fire or ignite explosively.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low

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lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

## 7. HANDLING AND STORAGE

### Precautions To Be Taken in Handling

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

### Precautions To Be Taken in Storing

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Respiratory Equipment (Specify Type)

For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV.

For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

### Eye Protection

Protect eyes with chemical splash goggles.

### Protective Gloves

Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

### Other Protective Clothing

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

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### Engineering Controls (Ventilation etc.)

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - Stop - ventilation is inadequate. Leave area immediately.

Do not use in small enclosed spaces, such as basements and bathrooms.

### Work/Hygienic/Maintenance Practices

A source of clean water should be available in the work area for flushing eyes and skin.

Do not eat, drink, or smoke in the work area.

Wash hands thoroughly after use.

Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use.

Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Melting Point:	No data.		
Boiling Point:	130 F		
Autoignition Pt:	No data.		
Flash Pt:	-4.0 F Method Used: Setaflash Closed Cup (Rapid Setaflash)		
Specific Gravity (Water = 1):	0.7742 - 0.7942		
Density:	6.518 LB/GL		
Vapor Pressure (vs. Air or mm Hg):	115 MM HG at 68 F		
Vapor Density (vs. Air = 1):	> 1		
Evaporation Rate:	> 1		
Solubility in Water:	Slight		
Percent Volatile:	100 % by weight.		
VOC / Volume:	590 G/L		
Viscosity:	Water thin		
Appearance and Odor	Water White / Free and Clear		

## 10. STABILITY AND REACTIVITY

Stability: Unstable  Stable

### Conditions To Avoid - Instability

No data available.

### Incompatibility - Materials To Avoid

Incompatible with strong oxidizing agents, strong caustics, hydrogen peroxide, and nitrates.

### Hazardous Decomposition Or Byproducts

Decomposition may produce carbon monoxide; carbon dioxide; formaldehyde; and unidentified organic compounds in black smoke.

Hazardous Polymerization: Will occur  Will not occur

### Conditions To Avoid - Hazardous Polymerization

No data available.



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Mutagenicity: Mutation test: DNA damage., Oral, Rat, 10.00 UMOL/KG.

Result:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Tumorigenic: Tumors at site of application.

- Environmental Mutagenesis., For publisher information, see EMMUEG, New York, NY, Vol/p/yr: 4,317, 1982

Acute toxicity, LD50, Oral, Rat, 5628. MG/KG.

Result:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O

Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 19(11),27, 1975

Acute toxicity, LC50, Inhalation, Rat, 64000. PPM, 4 H.

Result:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Somnolence (general depressed activity).

Lungs, Thorax, or Respiration: Dyspnea.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research

Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,74, 1974

Acute toxicity, TDLo, Oral, Rat, 3.000 gm/kg.

Result:

Liver: Other changes.

- Toxicologist., Soc. of Toxicology, Inc., 475 Wolf Ledge Parkway, Akron, OH 44311, Vol/p/yr: 72,315, 2003

Standard Draize Test, Skin, Species: Rabbit, 20.00 MG, 24 H, Moderate.

Result:

Blood: Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,187, 1986

Standard Draize Test, Eyes, Species: Rabbit, 40.00 MG, Moderate.

Result:

Blood: Other hemolysis with or without anemia.

Blood: Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- Union Carbide Data Sheet, Union Carbide Corp., 39 Old Ridgebury Rd., Danbury, CT 06817, Vol/p/yr: 3/24, 1970

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, 24 H, Moderate.

Result:

Blood: Changes in serum composition (e.g.

Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Phosphatases.

Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Transaminases.

- Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,187, 1986

**Chronic Toxicological Effects**

This product has not been tested as a whole. Information below will be for individual ingredients.

Germ Cell Mutagenicity: No data available.

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### Reproductive Toxicity:

Gross toluene exposure during pregnancy can produce renal toxicity, fetal toxicity, and teratogenicity.

STOT-Single Exposure: No data available.

STOT-Repeated Exposure: No data available.

### Carcinogenicity/Other Information

IARC 3: Not Classifiable as to Carcinogenicity in Humans

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

ACGIH A4 - Not Classifiable as a Human Carcinogen

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	n.a.	n.a.	n.a.	n.a.
2. Toluene {Benzene, Methyl-; Toluol}	108-88-3	n.a.	3	A4	n.a.
3. Acetone {2-Propanone}	67-64-1	n.a.	n.a.	A4	n.a.
4. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	111-76-2	n.a.	3	A3	n.a.
5. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	n.a.	n.a.	n.a.	n.a.
6. Light aliphatic solvent naphtha (petroleum)	64742-89-8	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

### General Ecological Information

No information available for this product as a whole. Information below will be for individual ingredients:

#### Toxicity:

Toluene: LC50 FOR BLUEGILL WAS 17 MG/L/24 HR & 13 MG/L/96 HR

Acetone: LC50 Pimephales promelas (Fathead minnow, age 33 days, length 22.6 mm, weight 0.159 g) 8,120 mg/L/96 h (95% confidence limit: 7,530-8,760 mg/L); flow through, 25.0 deg C, dissolved oxygen 6.7 mg/L, hardness 48.5 mg/L CaCO<sub>3</sub>, alkalinity 45.8 mg/L CaCO<sub>3</sub>, pH 7.58 /99% pure/

#### Persistence and Degradability:

Toluene is readily degradable.

Acetone: Based on a vapor pressure of 231 mm Hg at 25 deg C, acetone is expected to exist solely as a vapor in the ambient atmosphere. Vapor-phase acetone is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals with an estimated atmospheric half-life of about 79 days. Acetone also undergoes photodecomposition by sunlight with an estimated half-life of about 80 days.

#### Bioaccumulative Potential:

Methanol is not expected to bioaccumulate in the environment.

Toluene: Bioaccumulation is low to moderate.

Acetone: Volatilization from moist soil surfaces is also expected based upon the measured Henry's Law constant of 3.97X10<sup>-5</sup> atm-cu m/mol. This compound is expected to biodegrade under aerobic and anaerobic conditions based upon the results of numerous screening tests. If released into water, acetone is not expected to adsorb to suspended solids or sediment based upon its estimated Koc value. Methyl ethyl ketone may volatilize from dry soil surfaces based upon its vapor pressure.

#### Mobility in Soil:

Methanol is expected to have very high mobility in soil.

Toluene is expected to have high to moderate mobility in soil.

Acetone is expected to have very high mobility in soils.

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Other Adverse Effects: No data available.

**Results of PBT and vPvB assessment**

CAS# 67-56-1:

LC50, Fathead Minnow (*Pimephales promelas*), 28400. MG/L, 24 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Fathead Minnow (*Pimephales promelas*), 28400. MG/L, 48 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Fathead Minnow (*Pimephales promelas*), 28100. MG/L, 96 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Water Flea (*Daphnia magna*), larva(e), 100000. UG/L, 96 H, Mortality, Water temperature: 20 C C, pH: 8.50.

Result:

Sex Effects.

- Simultaneous Evaluation of the Acute Effects of Chemicals on Seven Aquatic Species, Ewell, W.S., J.W. Gorsuch, R.O. Kringle, K.A. Robillard, and R.C. Spiegel, 1986

LC50, Water Flea (*Daphnia magna*), neonate, 4816. MG/L, 24 H, Mortality, Water temperature: 20 C C.

Result:

Age Effects.

- Acute Toxicity Test with *Daphnia magna*: An Alternative to Mammals in the Prescreening of Chemical Toxicity?, Guilhermino, L., T. Diamantino, M.C. Silva, and A.M.V.M. Soares, 2000

LC50, Water Flea (*Daphnia magna*), neonate, 3289. MG/L, 48 H, Mortality, Water temperature: 20 C C.

Result:

Age Effects.

- Acute Toxicity Test with *Daphnia magna*: An Alternative to Mammals in the Prescreening of Chemical Toxicity?, Guilhermino, L., T. Diamantino, M.C. Silva, and A.M.V.M. Soares, 2000

CAS# 111-76-2:

LC50, Bluegill (*Lepomis macrochirus*), 1490000. UG/L, 96 H, Mortality, Water temperature: 23 C C, pH: 7.90, Hardness: 55.00 MG/L.

Result:

Abnormal development.

- The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes, Dawson, G.W., A.L. Jennings, D. Drozdowski, and E. Rider, 1977



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LC50, Water Flea (Daphnia magna), 1720. MG/L, 24 H, Intoxication,, Water temperature: 20 C - 22 C C, pH:  
 7.70, Hardness: 16.00 dH.

Result:

Age Effects.

- Results of the Damaging Effect of Water Pollutants on Daphnia magna (Befunde der Schadwirkung Wassergefährdender Stoffe Gegen Daphnia magna), Bringmann, G., and R. Kuhn, 1977

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method

Dispose of in accordance with all applicable local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

#### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name**            Paint Related Material  
**DOT Hazard Class:**                    3  
**DOT Hazard Label:**                    FLAMMABLE LIQUID  
**UN/NA Number:**                        UN1263  
**Packing Group:**                        II

#### Additional Transport Information

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### 15. REGULATORY INFORMATION

#### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	No	Yes 5000 LB	Yes	No
2. Toluene {Benzene, Methyl-; Toluol}	108-88-3	No	Yes 1000 LB	Yes	Yes
3. Acetone {2-Propanone}	67-64-1	No	Yes 5000 LB	No	Yes
4. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	111-76-2	No	No	Yes-Cat. N230	No
5. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	No	Yes 5000 LB	No	No
6. Light aliphatic solvent naphtha (petroleum)	64742-89-8	No	No	No	No

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	HAP	No	Inventory	Yes
2. Toluene {Benzene, Methyl-; Toluol}	108-88-3	HAP	Yes	Inventory, 8A CAIR	Yes
3. Acetone {2-Propanone}	67-64-1	No	No	Inventory, 4 Test	No
4. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	111-76-2	HAP	No	Inventory	No
5. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	No	No	Inventory, 4 Test	No
6. Light aliphatic solvent naphtha (petroleum)	64742-89-8	No	No	Inventory	No

#### SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

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- Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. \* indicates 10000 LB TPQ if not volatile.
- Sec.304: EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. \*\* indicates statutory RQ.
- Sec.313: EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List

**TSCA (Toxic Substances Control Act) Lists:**

- Inventory: Chemical Listed in the TSCA Inventory.
- 5A(2): Chemical Subject to Significant New Rules (SNURS)
- 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
- 12(b): Notice of Export

**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

**International Regulatory Lists:**

**EPA Hazard Categories:**

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes  No Acute (immediate) Health Hazard
- Yes  No Chronic (delayed) Health Hazard
- Yes  No Fire Hazard
- Yes  No Sudden Release of Pressure Hazard
- Yes  No Reactive Hazard

**16. OTHER INFORMATION**

**Company Policy or Disclaimer**

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

**N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required**

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/25/2014

Revised On 09/25/2014

## 1 Identification of the substance and manufacturer

**Trade name:** WHITE

**Product code:** 95789

**Product category:** PC9a Paints and coatings.

**Manufacturer/Supplier:** Lawson Products, Inc.  
8770 W. Bryn Mawr Avenue  
Chicago, IL 60631  
USA

**Emergency telephone number:** phone: 773-304-5050  
888-426-4851



## 2 Hazard(s) identification

### Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.

Press. Gas H280 Contains gas under pressure; may explode if heated.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Eye Irrit. 2A H319 Causes serious eye irritation.

### GHS Hazard pictograms



GHS02 GHS04 GHS07 GHS08

### Signal word

Danger

### Hazard statements

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
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.  
Wash hands thoroughly after handling.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Use personal protective equipment as required.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
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/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

### Dangerous components:

74-98-6	propane	17.63%
1317-65-3	Calcium Carbonate	15.28%
64742-89-8	VM&P Naphtha	14.61%
106-97-8	n-butane	10.36%
13463-67-7	titanium dioxide	6.31%
64742-47-8	Mineral Spirits	5.34%

## 4 First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Rinse out mouth and then drink plenty of water.  
Rinse mouth with water. Do not induce vomiting.

### Most important symptoms and effects:

Dizziness

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US4

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**Trade name:** WHITE

(Contd. of page 1)

**Indication of any immediate medical attention needed:** No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Can form explosive gas-air mixtures.

**Protective equipment for firefighters:** A respiratory protective device may be necessary.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol.

**Methods and material for containment and cleaning up:** Absorb liquid components with liquid-binding material.

## 7 Handling and storage

**Precautions for safe handling:** Use only in well ventilated areas.

**Storage requirements:** Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

## 8 Exposure controls/personal protection

### Components with limit values that require monitoring at the workplace:

#### 74-98-6 propane

PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
 REL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
 TLV (USA) refer to Appendix F

#### 106-97-8 n-butane

REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm  
 TLV (USA) Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm

**Hygienic protection:** Keep away from foodstuffs and animal feed. Wash hands after use. Immediately remove all soiled and contaminated clothing. Wash hands after use. 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 exists, 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

## 9 Physical and chemical properties

**Appearance:** Aerosol.

**Odor:** Aromatic

**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.

**Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

**Lower Explosion Limit:** 1.5 Vol %

**Upper Explosion Limit:** 10.9 Vol %

**Vapor pressure:** Not determined.

**Relative Density:** Between 0.77 and 0.85 (Water equals 1.00)

**Vapour density:** Not determined.

**Evaporation rate:** Not applicable.

**Partition coefficient: n-octonal/water:** Not determined.

**Solubility:** Not determined.

**Viscosity:** Not determined.

(Contd. on page 3)  
US4

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/25/2014

Revised On 09/25/2014

Trade name: WHITE

(Contd. of page 2)

VOC content: 515.7 g/l / 4.30 lb/gl  
 VOC content (less exempt solvents): 49.4 %  
 Water: 20.3 %  
 MIR Value: 0.54  
 Solids content: 29.2 %

## 10 Stability and reactivity

**Reactivity:** Stable at normal temperatures.  
**Conditions to avoid:** Do not allow can to exceed 120 degrees Fahrenheit. 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.

## 11 Toxicological information

### LD/LC50 values that are relevant for classification:

#### 106-97-8 n-butane

Inhalative	LC50/4 h	658 mg/l (rat)
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#### 13463-67-7 titanium dioxide

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rbt)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**Information on toxicological effects:** No data available.  
**Sensitization:** No sensitizing effects known.

### 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

**Aquatic toxicity:** Hazardous for water, do not empty into drains.  
**Persistence and degradability:** The product is degradable after prolonged exposure to natural weathering processes.  
**Bioaccumulative potential:** No further relevant information available.  
**Mobility in soil:** No further relevant information available.  
**Other adverse effects:** No further relevant information available.

## 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.

## 14 Transport information

**UN-Number:** UN1950  
**DOT:** Aerosols, flammable  
**ADR:** 1950 Aerosols  
**Transport hazard class(es):**  
**Class:** 2.1  
**Marine pollutant:** No  
**Special precautions for user:** Warning: Gases  
**EMS Number:** F-D,S-U  
**Packaging Group:** --  
**UN "Model Regulation":** UN1950, Aerosols, 2.1

## 15 Regulatory information

### SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

(Contd. on page 4)

US4

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/25/2014

Revised On 09/25/2014

**Trade name: WHITE**

(Contd. of page 3)

**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
100-41-4	ethyl benzene

**EPA:**  
None of the ingredients is listed.

**16 Other information**

**Contact:** Regulatory Affairs

US4

# DRUMMOND™

A LAWSON BRAND

## SAFETY DATA SHEET

### 1. Identification

**Product Identifier:** DR8490 LIFEGUARD ONE STEP DISINFECTANT GERMICIDAL DETERGENT AND DEODORANT

**Application or recommended use:** Concentrated hard surface disinfectant cleaner

**Restrictions on use:** Do not use in any fashion not specified on the product label.

**Manufacturer / supplier:** Drummond, A Lawson Brand  
Lawson Products, INC.  
8770 W. Bryn Mawr Ave., Suite 900  
Chicago, IL 60631

**Telephone:** 773-304-5050 **Emergency phone:** 888-426-4851

### 2. Hazards Identification

**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200.  
Skin Corrosion/Irritation - Category 2  
Eye Damage/Irritation - Category 1

#### Label Elements:



Symbol:

Signal word: **DANGER**

Hazard statements: Causes skin irritation.  
Causes serious eye damage.

Precautionary statements: Wash hands, face and any skin contact thoroughly after handling.

Wear protective gloves/eye protection/face protection.

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 ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

See 4. First-Aid Measures for specific treatment.

**Other Hazards:** Harmful if swallowed.

### 3. Composition / Information on Ingredients

**Chemical characterization:** Concentrated mixture of water, detergents, germicides and auxiliary agents.

**Hazardous ingredients:** The exact percentage of composition has been withheld as a trade secret.

2.54% Didecyl dimethyl ammonium chlorides CAS 7173-51-5, EINECS/ELINCS 230-525-2

1.69% C<sub>12-16</sub> Alkyl dimethylbenzyl ammonium chlorides CAS 68424-85-1, EINECS/ELINCS 264-151-6

**Other ingredients (> 1%):**

> 92% Water CAS 7732-18-5, EINECS/ELINCS 231-791-2

### 4. First-Aid Measures

**Symptoms:** Burning or irritation of affected areas. Causes skin irritation. Causes serious eye damage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

**Skin Contact:** Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. If skin irritation occurs, get medical advice/attention.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration. Probable mucosal damage may contraindicate the use of gastric lavage.

**Note to Physician:** Treat exposed patients symptomatically.



## **5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** Not applicable. Product is not a fire hazard.

**Unsuitable Extinguishing Media:** High pressure water jet.

**Specific hazards in case of fire:** None known.

**Special Fire Fighting Precautions:** Prevent human exposure to fire, smoke, fumes or products of combustion. Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

## **6. Accidental Release Measures**

**Emergency Procedures:** Depending on the extent of release, consider the need for restriction to access of spill area.

**Personal Precautions:** Do not eat, drink or smoke during clean up. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

**Environmental Precautions:** Prevent spills from entering storm sewers/drains or contact with soil.

**Clean up Methods:** Small spills may be wiped up and rinsed with water. For larger spills, contain spill with inert material (sand, clay). Transfer material to labeled containers for recovery or proper disposal. After removal, flush area with water.

Follow good industrial hygiene practices.

## **7. Handling and Storage**

**Precautions for Safe Handling:** Read label before use. Avoid contact with skin or eyes. Avoid breathing vapor or spray mist. Wash hands, face and any skin contact thoroughly after handling. Wear protective gloves, eye protection, face protection. Use product only according to label directions. If unsure about safe use, contact your supervisor.

**Conditions for Safe Storage:** Keep out of reach of children. Do not contaminate water, food or feed by storage and disposal. Store in tightly closed, original container in a cool (10° - 30°C), dry area.

**Incompatibility:** Anionic detergents.

## **8. Exposure Controls / Personal Protection**

**Components with occupational exposure limits:** None

**Engineering Controls:** Proper ventilation in accordance with good industrial hygiene should be provided.

**Personal Protective Equipment**

**Respiratory:** Respiratory protection is not necessary under normal conditions of use.

**Gloves:** Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established.

**Eye Protection:** Chemical resistant goggles or face protection.

**Other:** Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

## **9. Physical and Chemical Properties**

**Physical State** - Liquid

**Color** - Green

**Odor** - Lemon

**Odor Threshold** - No data available

**Boiling Point** - 212°F

**Decomposition temperature** - No data available

**Freezing Point** - 32°F

**pH (Conc.)** - 6.0 - 8.0

**pH (RTU)** - 6.0 - 8.0

**Relative Density** - 1.000

**Evaporation Rate** - Similar to water

**Auto-ignition temperature** - Not applicable

**Flash Point** - None

**Flammability** - Not applicable

**Flammability Limits** - Not applicable

**Partition coefficient** - Not applicable

**Solubility (Water)** - Complete

**Vapor Density** - No data available

**Vapor Pressure** - No data available

**Viscosity** - Slightly viscous

**% VOC** - < 1 (Excluding exempt material)

## **10. Stability and Reactivity**

**Reactivity:** No specific reactivity test data is available for this mixture. Under normal conditions of storage and use, hazardous reactions are not expected.

**Incompatible materials:** Oxidizers, anionic detergents.

**Chemical stability:** This product is stable at ambient temperatures and atmospheric pressures.

**Conditions to avoid:** Temperatures above 50°C or below 10°C.

**Hazardous decomposition products:** None known.

## **11. Toxicological Information**

**Acute Toxicity:** Toxicity data is not available for this mixture. Data below are estimates based on summation methods.

Test	Results	Classification (A.0.4.1(c))	Basis (A.1.3.6.1)
Oral	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Dermal	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Inhalation	> 20 mg/L	Not applicable	Ingredient literature (Additive formula)
Eye Damage/Irritation	Corrosion	Category 1	Ingredient literature
Skin Damage/Irritation	Irritation	Category 2	Ingredient literature



**Summary:** Skin and eye contact are most likely routes of exposure. Exposure causes skin irritation and serious eye damage.

### **11. Toxicological Information (cont.)**

#### **Subchronic/Chronic Toxicity:**

Test	Results	Classification	Basis
Skin Sensitization	Not a sensitizer	Not applicable	Ingredient literature.

**Summary:** Repeated or prolonged contact causes skin irritation and eye damage.

**Carcinogens** - Ingredients are not listed on the NTP Report on Carcinogens, IARC Monographs or by OSHA

**Other data** - No other toxicological information is available for this mixture.

### **12. Ecological Information**

This material has not been tested for acute environmental effects.

**Persistence and degradability:** Material is not persistent. All organic components > 1% are inherently biodegradable.

**Bio-accumulative potential:** No evidence to suggest bio-accumulation will occur.

**Mobility:** Accidental spillage may lead to penetration of soil and groundwater.

### **13. Disposal Considerations**

Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. **Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

### **14. Transport Information**

**Proper Shipping Name:** Not regulated **RQ** - Not Applicable

**Shipping emergency phone:** 800-424-9300

**Transport hazard class:** Not Applicable **Hazard Label:** Not Applicable

**Packing Group:** Not Applicable **Emergency Guide No.:** Not Applicable **Marine Pollutant:** No

### **15. Regulatory Information**

**Inventory status:** All components are listed on TSCA(US), EINECS/ELINCS(EU), DSL(Canada).

**FIFRA:** This product is a U.S. EPA Registered pesticide, EPA Reg. No. 47371-131-40208, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

**Danger:** Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. The pesticide label also includes other important information, including directions for use.

**OSHA Hazard Communication Standard:** This product meets the §1910.1200 definition of a "Hazardous Chemical".

#### **Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Sections 311 and 312**

<b>Immediate (Acute) Health Hazard</b>	Yes	<b>Delayed (Chronic) Health Hazard</b>	No
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<b>Fire Hazard</b>	No	<b>Reactive Hazard</b>	No
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<b>Sudden Release of Pressure Hazard</b>	No
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#### **Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313**

\*Chemicals marked with an asterisk in "**3. Composition/Information on Ingredients**" are subject to reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372.

#### **Pennsylvania/New Jersey/Massachusetts Right to Know**

See "**3. Composition/Information on Ingredients**" for hazardous and top five ingredients present in concentration greater than 1%.

**California Proposition 65:** This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.



**16. Other information****Date issued:** 17. 09. 2014

F800-005 Revision: N/A

**Disclaimer: No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document.** The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. **Prepared by:** Regulatory Affairs Department

## SAFETY DATA SHEET



Issuing Date 21-Jan-2016

Revision Date 21-Jan-2016

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS product identifier**

**Product Name** Lith-Ease White Lithium Grease- WL-14, WL-15

**Other means of identification**

**Product Code(s)** WL-14, WL-15

**Synonyms** Lith-Ease White Lithium Grease

**Recommended use of the chemical and restrictions on use**

**Recommended Use** LITH-EASE is a high-quality, multi-purpose white lithium grease for automotive, marine, shop, farm, and home use. It is a long-lasting lubricant with excellent water and heat resistance, rust and corrosion protection, and high film strength. Won't melt, freeze, gum, or run off. Provides superior performance in all weather and all temps.

**Uses advised against** No information available

**Supplier's details**

**Supplier Address**  
 AGS Company  
 P.O. Box 729  
 Muskegon, MI  
 49443  
 TEL: 800-253-0403

**Emergency telephone number**

**Emergency Telephone Number** 800-255-3924

## 2. HAZARDS IDENTIFICATION

**Classification**

This product is not considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

**GHS Label elements, including precautionary statements**

### Emergency Overview

<b>Signal Word</b>	None
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**Hazard Statements**

- None

This product is not considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

**Appearance** Cream.

**Physical State** Solid (compressed).

**Odor** Petroleum.

**Precautionary Statements****Prevention**

- None

**General Advice**

- None

**Storage**

- None

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable.

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Lith-Ease White Lithium Grease

Chemical Name	CAS-No	Weight %	Trade secret
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	60-100	*
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10-30	*
Calcium carbonate	471-34-1	5-10	*
Titanium dioxide	13463-67-7	0.1-1	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures****Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.

**Skin Contact**

Wash skin with soap and water.

**Inhalation**

Move to fresh air.

**Ingestion**

Clean mouth with water and afterwards drink plenty of water.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

No information available.

**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** Ensure adequate ventilation.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral STEL: TWA: 10 mg/m <sup>3</sup> , as oil mist, mineral	TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral	-

Calcium carbonate 471-34-1	-	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

**Appropriate engineering controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

None required for consumer use. Risk of contact, wear: Safety glasses with side-shields.

**Skin and Body Protection**

None required for consumer use. Repeated or prolonged contact: Gloves should be worn.

**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.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Solid (compressed).	<b>Appearance</b>	Cream.
<b>Odor</b>	Petroleum.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	698 °F	None known
<b>Flash Point</b>	482 °F	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	0.98919	None known
<b>Water Solubility</b>	Insoluble in water.	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

**Other information**

<b>VOC Content (%)</b>	No data available
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## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**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**

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	May cause temporary eye irritation.
<b>Skin Contact</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion</b>	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg ( Rat )	-	> 6820 mg/m <sup>3</sup>

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains titanium dioxide which is classified as an IARC 2B carcinogen based on laboratory studies where animals were exposed to titanium dioxide dust. This is not a relevant route of exposure for this product since it is a moist solid material with little to no chance of producing dust. Petroleum products are known to cause cancer because of carcinogenic components (e.g. benzene). These carcinogenic components may be removed during the refinement process

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, solvent dewaxed heavy paraffinic	A2	Group 1		X



Petroleum distillates, hydrotreated heavy naphthenic	A2	Group 1		X
Titanium dioxide		Group 2B		X

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

#### Numerical measures of toxicity - Product

##### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral** 64501 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

#### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

### Legend

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

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

### U.S. 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

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### 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.

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Petroleum distillates, solvent dewaxed heavy paraffinic				X	
Petroleum distillates, hydrotreated heavy naphthenic				X	
Calcium carbonate	X	X	X		

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

---

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	21-Jan-2016
<b>Revision Date</b>	21-Jan-2016
<b>Revision Note</b>	Initial Release.

**General Disclaimer**

The information provided on this SDS 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 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.

**End of Safety Data Sheet**

# SAFETY DATA SHEET

Lysol® Brand Disinfectant Spray, All Scents (Aerosol)



HEALTH • HYGIENE • HOME

## 1. Product and company identification

**Product name** : Lysol® Brand Disinfectant Spray, All Scents (Aerosol)

**Supplier** : Reckitt Benckiser (Canada) Inc.  
1680 Tech Avenue, Unit #2  
Mississauga, Ontario L4W 5S9  
CANADA  
Telephone: +1 905 283 7000

**Material uses** : Multipurpose Cleaner

**Product use** : Consumer

**SDS #** : D0224478 v5.0

**Formulation #:** : 1178-172 (0175917 v1.0 & 0242193 v2.0) Crisp Linen  
1338-015 (0175918 v1.0 & 0258756 v1.0) Spring Waterfall  
1338-018 (0175934 v1.0) Green Apple / Green Apple Breeze  
1338-021 (0175938 v1.0) Crisp Berry  
1338-019 (0175919 v1.0) Country  
1338-026 (0175929 v1.0) Country Morning Breeze  
1338-017 (0172927 v1.0) Lemon Breeze

**DIN #** : 02395614

**UPC Code / Sizes** : Tin plate steel cans  
Crisp Linen - 6 oz, 12.5 oz, 19 oz, 350g  
"To Go" Crisp Linen - 1 oz, 28 g  
Spring Waterfall - 12.5 oz, 19 oz, 350g  
Green Apple - 350g  
Crisp Berry - 12.5 oz, 19 oz, 350g  
Country - 350g  
Country Morning Breeze - 350g  
Lemon Breeze - 200g, 350g and 539g

**Manufacturer** : Reckitt Benckiser LLC.  
Morris Corporate Center IV  
399 Interpace Parkway (P.O. Box 225)  
Parsippany, New Jersey 07054-0225  
+1 973 404 2600

**Validation date** : 23/04/2015.

**Emergency telephone number** : 1-800-338-6167

**Transport Emergency phone:** : 1-800-424-9300 (U.S. & Canada) CHEMTREC  
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

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## 2. Hazards identification

### Emergency overview

- Physical state** : Liquid. [Aerosol.]
- Color** : Clear.
- Odor** : Characteristic.
- Signal word:** : DANGER
- Hazard statements** : EXTREMELY FLAMMABLE.  
CONTAINER MAY EXPLODE IF HEATED
- Precautionary measures** : Keep out of reach of children. CONTENTS UNDER PRESSURE. Keep away from flames or sparks. Do not puncture, incinerate or store the container at temperatures above 120°F or in direct sunlight. Use only with adequate ventilation. Avoid contact with eyes and Food. Wash thoroughly after handling.
- OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

- Skin** : Slightly irritating to the skin.
- Eyes** : Moderately irritating to eyes.

### Potential chronic health effects

- Chronic effects** : Contains material that may cause target organ damage, based on animal data.
- Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
- Target organs** : Contains material which may cause damage to the following organs: blood, lungs, the reproductive system, liver, heart, upper respiratory tract, skin, eyes, central nervous system (CNS).

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Eyes** : Adverse symptoms may include the following:  
irritation  
redness
- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
- Hazard statements** :

## 3. Composition/information on ingredients

Name	CAS number	%
Ethanol	64-17-5	30 - 60
n-butane	106-97-8	5 - 10
Propane	74-98-6	1 - 2.5

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 or the environment and hence require reporting in this section.**

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## 4. First aid measures

### First aid

- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : Use personal protective equipment as required.
- Notes to physician** : Contains denatured ethanol; ingestion may result in ethanol poisoning.

## 5. Fire-fighting measures

- Flammability Remark** : Not available.
- Explosibility Remark** : Not available.
- Flammability of the product** Flammable aerosol. 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. Runoff to sewer may create fire or explosion hazard.
- Extinguishing media**
- Suitable** Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** None known.
- Special hazards arising from the substance or mixture**
- Special exposure hazards** 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.
- Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- NFPA (30B) aerosol Flammability** Level 1
- Fire or projection hazard.** Aerosol cans may explode with extreme heat and become projectiles.
- Advice for firefighters**
- 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.
- Special remarks on explosion hazards**
- Sensitivity to mechanical impact** Not available.
- Sensitivity to static discharge** Not available.

## 6. Accidental release measures

**Personal precautions** : 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 (see Section 8).

**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 for 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.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). 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. 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. 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 non-sparking tools. Empty containers retain product residue and can be hazardous.

Do not puncture or incinerate CONTENTS UNDER PRESSURE

**Storage** : Do not store above the following temperature: 50°C (120°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

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## 7. Handling and storage

CONTAINERS SHOULD BE KEPT OUT OF REACH OF CHILDREN. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn after use. Keep away from all sources of ignition. Fires involving flammable aerosols are severe and can spread very quickly. Warehouses and stores containing aerosols should therefore be separated from other areas by a fire resistant construction of at least one half hour duration. Stores should be well ventilated, particularly at low levels. The natural ventilation in a large open warehouse building will normally be suitable. Avoid the storage of aerosols in basements where practicable.

**EPA Product** : It is a violation of federal law to use this product in a manner inconsistent with its labeling.

## 8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling (ACGIH TLV)			Notations
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
butane	US ACGIH 6/2013	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	-	-	-	-	-	-	-	-	
	BC 7/2013	600	-	-	750	-	-	-	-	-	
	ON 1/2013	800	-	-	-	-	-	-	-	-	
	QC 12/2012	800	1900	-	-	-	-	-	-	-	
ethanol	US ACGIH 6/2013	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 7/2013	-	-	-	1000	-	-	-	-	-	
	ON 1/2013	-	-	-	1000	-	-	-	-	-	
	QC 12/2012	1000	1880	-	-	-	-	-	-	-	
propane	AB 4/2009	1000	-	-	-	-	-	-	-	-	
	BC 7/2013	1000	-	-	-	-	-	-	-	-	
	ON 1/2013	1000	-	-	-	-	-	-	-	-	
	QC 12/2012	1000	1800	-	-	-	-	-	-	-	

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Manufacturer: Exposure controls

**Engineering measures** : 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.

**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.



## 8. Exposure controls/personal protection

### Personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed 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.
- Hands** : 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.
- 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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin** : 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- 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.
- Other protection** : Not available.

## 9. Physical and chemical properties

- Physical state** : Liquid. [Aerosol.]
- Flash point** : Closed cup: 25.6°C (78.1°F)
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Clear.
- Odor** : Characteristic.
- Taste** : Not available.
- Molecular weight** : Not applicable.
- Molecular formula** : Not applicable.
- pH** : 10.8 to 11.8 [Conc. (% w/w): 100%]
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Critical temperature** : Not available.
- Relative density (g/ml)** : 0.8667 to 0.8967 g/cm<sup>3</sup> [20 to 25°C]
- Bulk density** : 7.1 to 7.5 lbs/gal
- Vapor pressure** : Not available.

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## 9. Physical and chemical properties

<b>Vapor density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Ionicity (in water)</b>	: Not available.
<b>Dispersibility properties</b>	: Not available.
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Physical/chemical properties comments</b>	: Not available.
<b>Aerosol product</b>	
<b>Type of aerosol</b>	: Spray
<b>Heat of combustion</b>	: 21.41 kJ/g
<b>Ignition distance</b>	: <45.72 cm

## 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Keep away from extreme heat. Protect from moisture. Keep from freezing. Do not store above 50°C
<b>Incompatible materials</b>	: Do not mix with household chemicals.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
*Lysol® Brand Disinfectant Spray, All Scents (Aerosol)	LC50 Inhalation Vapor	Rat	>2.12 mg/l	4 hours Maximum attainable concentration

**Conclusion/Summary** : Not classified Harmful. \*Information is based on toxicity test result of the concentrate of a similar product.

### Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				

**Conclusion/Summary** : Not available.

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## 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 microliters	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
				400 milligrams	-
*Lysol® Brand Disinfectant Spray, All Scents (Aerosol)	Eyes - Cornea opacity	Rabbit	< 1	24 hours	-
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.3	20 milligrams	4 days
				72 hours	72 hours

**Conclusion/Summary** : Not available.

**Skin** : Slightly irritating to the skin. \*Information is based on toxicity test result of the concentrate of a similar product.

**Eyes** : Moderately irritating to eyes. \*Information is based on toxicity test result of the concentrate of a similar product.

**Respiratory** : Not available.

### Sensitizer

Product/ingredient name	Route of exposure	Species	Result
Not available.			

**Conclusion/Summary** : Not available.

**Skin** : Not available.

**Respiratory** : Not available.

### Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				

**Conclusion/Summary** : Not available.

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanol	A3	1	-	-	-	-

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Not available.			

**Conclusion/Summary** : Not available.

### Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				

**Conclusion/Summary** : Not available.

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## 11. Toxicological information

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Not available.						

**Conclusion/Summary** : Not available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

**Conclusion/Summary** : Not available.

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

**Conclusion/Summary** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Bioconcentration factor** : Not available.

**Mobility** : Not available.

**Toxicity of the products of biodegradation** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations






**Waste disposal** : 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.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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## 14. Transport information

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-		Limited quantity
TDG Classification	UN1950	Aerosols, flammable	2.1	-		Limited quantity
Mexico Classification	UN1950	Aerosols, flammable	2.1	-		Limited quantity
IMDG Class	UN1950	Aerosols, flammable	2.1	-		Limited quantity
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-		See DG List

PG\* : Packing group

## 15. Regulatory information

### United States

**U.S. Federal regulations** : TSCA 8(a) PAIR: 2-methylpropan-2-ol  
 SARA 302/304: No products were found.  
 SARA 311/312 Hazards identification: Fire hazard, Delayed (chronic) health hazard  
 Clean Water Act (CWA) 311: ammonia  
 Clean Air Act (CAA) 112 regulated flammable substances: butane; propane

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

### SARA 311/312 HCS 1994

Classification : Fire hazard  
 Delayed (chronic) health hazard

### Composition/information on ingredients

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## 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
butane	5 - 10	Yes.	Yes.	No.	No.	Yes.
ethanol	30 - 60	Yes.	No.	No.	Yes.	Yes.
propane	1 - 2.5	Yes.	Yes.	No.	No.	Yes.

### State regulations

- Massachusetts** : The following components are listed: ETHYL ALCOHOL; BUTANE; PROPANE
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: ETHYL ALCOHOL; ALCOHOL; BUTANE; PROPANE
- Pennsylvania** : The following components are listed: DENATURED ALCOHOL; BUTANE; PROPANE

### Canada

- WHMIS (Canada)** : Class B-2: Flammable liquid  
Class B-5: Flammable aerosol.

### Canadian lists

- Canadian NPRI** : The following components are listed: Ethanol; Butane (all isomers); Propane
- CEPA Toxic substances** : None of the components are listed.
- Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

**Hazardous Material Information System (U.S.A.)** :

Health	1
Flammability	3
Physical hazards	0
Personal protection	B

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 MSDSs 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.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



NFPA (30B) aerosol Flammability Level 1

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## 16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Date of issue** : 23/04/2015.  
**Date of previous issue** : 22/04/2015.  
**Version** : 5  
**Prepared by** : Reckitt Benckiser LLC.  
Product Safety Department  
1 Philips Parkway  
Montvale, New Jersey 07646-1810 USA.  
FAX: 201-476-7770


**Revision comments** : Update & Revision of the SDS. Addition of formula #0175927.

📌 Indicates information that has changed from previously issued version.

### 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.

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29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : NAPA® PREM PERF 15W-40 MOTOR OIL

**Relevant identified uses of the substance or mixture and uses advised against**


<p><b>Details of the supplier of the safety data sheet</b>  Valvoline LLC  3499 Blazer Parkway  Lexington, KY 40509  United States of America (USA)  1-800-TEAMVAL</p>	<p><b>Emergency telephone number</b>  1-800-VALVOLINE</p> <p><b>Regulatory Information Number</b>  1-800-TEAMVAL</p> <p><b>Product Information</b>  1-800-TEAMVAL</p>
--	---

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Reproductive toxicity : Category 2

**GHS label elements**


Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**  
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.  
**Storage:**  
Store locked up.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.



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**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture


Chemical nature : Defatter

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts	113706-15-3	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.08
Dodecylphenol, mixed isomers (branched)	74499-35-7	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 2; H361	0.1449

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : 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 : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

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delayed the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Suspected of damaging fertility or the unborn child.

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 (CO<sub>2</sub>)  
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- 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  
 Nitrogen oxides (NO<sub>x</sub>)  
 Sulphur oxides  
 hydrogen sulfide  
 mercaptans  
 zinc oxide
- Specific extinguishing methods :  
 Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : 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.  
 Ensure adequate ventilation.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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.

Other information : Comply with all applicable federal, state, and local regulations.

## SECTION 7. HANDLING AND STORAGE


Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	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

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#### Hazardous components without workplace control parameters

Components	CAS-No.
------------	---------

**Engineering measures** : 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** : 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 air-purifying 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 air-purifying respirator may not provide adequate protection.

In the case of vapour formation use a respirator with an approved filter.

#### Hand protection

**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**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:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures** : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid  
Colour : amber  
Odour : hydrocarbon-like


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Odour Threshold : No data available  
 pH : No data available  
 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 : 6 %(V)  
 Calculated Explosive Limit  
 Lower explosion limit : 1 %(V)  
 Calculated Explosive Limit  
 Vapour pressure : 0.0133333 hPa (21.11 °C)  
 Calculated Vapor Pressure  
 Relative vapour density : No data available  
 Relative density : 0.89 (15.6 °C)  
 Density : 0.880 g/cm<sup>3</sup> (15.6 °C)  
 Solubility(ies)  
 Water solubility : negligible  
 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. 112 mm<sup>2</sup>/s (40 °C)  
 Oxidizing properties : No data available

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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

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Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Acids  
Strong oxidizing agents  
water

Hazardous decomposition products : carbon dioxide and carbon monoxide  
hydrogen sulfide  
Nitrogen oxides (NOx)  
Sulphur oxides  
zinc oxide  
mercaptans

---

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

#### **Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts:

Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**


Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts:

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

Dodecylphenol, mixed isomers (branched):

Result: Irritating to skin.

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**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Result: Corrosive

Remarks: Information given is based on data obtained from similar substances.

Dodecylphenol, mixed isomers (branched):

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Test Type: Buehler Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were not observed with in vivo test.

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Test species: Mouse  
 Cell type: peripheral blood cells  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.


**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Effects on fertility : Species: Rat  
 Application Route: Oral  
 Dose: 100 mg/kg bw/day  
 Symptoms: No effects on reproduction parameters

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 Developmental Toxicity: No observed adverse effect level F1:  
 100 mg/kg body weight

Dodecylphenol, mixed isomers (branched):  
 Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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**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

**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.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l

Exposure time: 96 h

Remarks: Information given is based on data obtained from similar substances.


Dodecylphenol, mixed isomers (branched):

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.



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**Persistence and degradability**

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Biodegradability : Result: Not readily biodegradable.

Remarks: Information given is based on data obtained from similar substances.

No data available

**Bioaccumulative potential**

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Bioaccumulation : Bioconcentration factor (BCF): 3

Remarks: Information given is based on data obtained from similar substances.

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations  
REGULATION**



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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

**U.S. DOT - ROAD**

Not dangerous goods
---------------------

**CFR\_RAIL\_C**

Not dangerous goods
---------------------

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods
---------------------

**TDG\_ROAD\_C**

Not dangerous goods
---------------------

**TDG\_RAIL\_C**

Not dangerous goods
---------------------

**TDG\_INWT\_C**

Not dangerous goods
---------------------

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods
---------------------

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods
---------------------

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**


Not dangerous goods
---------------------

**MX\_DG**

Not dangerous goods
---------------------

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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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.

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act  
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 311/312 Hazards** : Chronic Health Hazard

**SARA 313**

Phosphorodithioic acid, 113706-15-3 1.08 %  
mixed O,O-bis(sec-Bu and  
isooctyl) esters, zinc salts

**California Prop 65** Proposition 65 warnings are not required for this product based on the results of a risk assessment.

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

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : Not 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), TCSI (Taiwan), TSCA (USA)

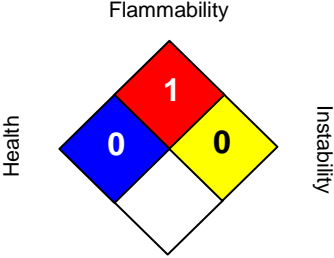
**SECTION 16. OTHER INFORMATION**

**Further information**

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<b>NFPA:</b>	<b>HMIS III:</b>
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 <p>Health: 0, Flammability: 1, Instability: 0, Special hazard: 0</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; text-align: center;"><b>HEALTH</b></td> <td style="text-align: center;"><b>0*</b></td> </tr> <tr> <td style="background-color: #FF0000; color: white; text-align: center;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: #FFFF00; text-align: center;"><b>PHYSICAL HAZARD</b></td> <td style="text-align: center;"><b>0</b></td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>0*</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>0*</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

**NFPA Flammable and Combustible Liquids Classification**  
Combustible Liquid Class IIIB

**Full text of H-Statements**


- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.

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).

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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

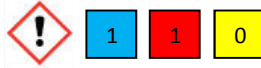
Purple Power Prime-Shine Tire Shine

## Section 1: Product and Company Identification:

**Product Name:** Purple Power Prime-Shine Tire Shine  
**Product Use:** Tire Shine  
**Part's:** 9624PS; 9617PS; 9620P; 9625P; 9640  
**Manufacture/Supplier:** Aiken Chemical Company  
P.O Box 27147, Greenville, SC 29616  
12 Shelter Drive, Greer, SC 29650  
**Phone Number:** (864) 968-1250  
1-800-828-1860  
**Emergency Phone:** 1-800-424-9300  
**Date of Preparation:** May 29, 2015

## Section 2: Hazards Identification:

Hazard Determination System (HDS): Health, Flammability, Reactivity



### **Emergency Overview:**

**Warning:** May cause skin, eye irritation  
**Potential Health Effects:** See Section 11 for more information.  
**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.  
**Eye:** May cause excess watering, redness & stinging which may result in mild irritation of the eyes.  
**Skin:** Overexposure may cause itching and redness similar to a rash. Symptoms may include burning, drying and cracking of skin.  
**Ingestion:** May cause gastrointestinal irritation, nausea and vomiting.  
**Inhalation:** This product is not volatile and as a result, inhalation is not seen as a potential hazard. Breathing large amounts of mist may be harmful.  
**Chronic Effects:** Pre-existing disorders of the following organs or organ systems may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions)  
**Carcinogenicity:** Ingredients not listed as carcinogen by OSHA, NTP or IARC.

## Section 3: Composition / Information on Ingredients:

<u>Ingredient:</u>	<u>CAS#</u>	<u>Percent</u>
Solvent Naphtha (petroleum), Heavy Aliphatic	64742-96-7	60-90
<b>TCSA Information:</b>	All ingredients of this product are listed on the TSCA inventory.	

## Section 4: First Aid Measures:

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Seek immediate medical attention.  
**Skin Contact:** Thoroughly wash exposed area with soap and water for at least 15 minutes. If irritation persists, seek medical attention.  
**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.  
**Ingestion:** Seek medical attention. If accidentally swallowed, DO NOT induce vomiting. Give large amounts of water if conscious and not drowsy. If possible, do not leave individual unattended.

# SAFETY DATA SHEET

Purple Power Prime-Shine Tire Shine

## **Section 5: Fire Fighting Measures:**

**Extinguishing Media:**

Carbon dioxide, dry powder chemical or foam

**Special Fire-Fighting Media:**

Fire-fighters wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA)

**Unusual Fire and Explosion Hazards:**

Extinguish all nearby sources of ignition. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. 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 liquid with water used for cooling purposes. Product is very slippery – use caution to avoid falls.

## **Section 6: Accidental Release Measures:**

**Personal Precautions:**

Use personal protection recommended in section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:**

Not Available.

**Methods for Containment:**

Stop spill at source. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Prevent the spill from spreading by diking off the area with soil, sand, or clay.

**Methods for Clean-up:**

Liquid may be pumped to a salvage container or taken up by an absorbent material and shoveled into salvage containers.

**Other Information:**

Spilled material is very slippery – use caution to avoid falls.

## **Section 7: Handling and Storage:**

**Handling:**

Avoid breathing vapor. Do not get in eyes, on skin or clothing. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Keep product away from all sources of heat. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in NFPA Document NFPA 77. Product can become electro statically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of product.

**Storage:**

Store in the original container.

**Other Precautions:**

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor and/or liquid), all hazard precautions given in the data sheet must be observed. Avoid contact with residual product. Spilled material is slippery on walkways and floors. Remove all spills promptly.

## **Section 8: Exposure Controls/Personal Protections:**

**Exposure Guidelines:**

Ingredient	Exposure Limits			
	OSHA-PEL	ACGIH-TLV	Other Limits	Percent
Solvent Naphtha (petroleum), Heavy Aliphatic:	100 ppm	100 ppm	None Known	60 - 90

**Engineering Controls:**

Use Ventilation adequate to keep exposures, (airborne levels of dust, fume, vapor, etc.), below recommended exposure limits.

**Personal Protective Equipment:**

**Eye/Face Protection:**

Splash goggles or safety glasses

**Hand Protection:**

Wear suitable gloves, (Neoprene, Nitrile Rubber, and Polyethylene).

**Skin and Body Protection:**

Wear Suitable protective clothing, (Wear body-covering, impervious clothing, chemical resistant gloves and boots).

**Respiratory:**

If workplace exposure limit(s) of product is exceeded, a NIOSH-approved air supplied respirator is advised in absence of proper environmental control.

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Purple Power Prime-Shine Tire Shine

**General Hygiene Considerations:** Always use caution when working with chemicals. Wash thoroughly before eating, smoking or drinking and after handling product.

## **Section 9: Physical and Chemical Properties:**

<b>Appearance and Odor:</b>	Clear, colorless liquid, cherry odor
<b>Physical State:</b>	Liquid
<b>pH:</b>	NA
<b>Freezing Point:</b>	~0°C (~32°F)
<b>Boiling Point:</b>	~100°C (~212°F)
<b>Flash Point (Method Used):</b>	>215°F (Seta Closed Cup)
<b>Evaporation Rate (Butyl Acetate= 1) :</b>	Not Determined
<b>LEL:</b>	Not Determined
<b>UEL:</b>	Not Determined
<b>Vapor Pressure (mm Hg.):</b>	Not Determined
<b>Vapor Density (AIR=1):</b>	Not Determined
<b>Specific Gravity:</b>	0.850
<b>Solubility in Water:</b>	Insoluble
<b>Melting Point:</b>	NA
<b>Auto-Ignition Temperature:</b>	Not Determined
<b>Percent Volatile, wt%:</b>	LVP Exemption
<b>VOC content, wt. %</b>	LVP Exemption

## **Section 10: Stability and Reactivity:**

<b>Stability:</b>	Stable under normal storage conditions.
<b>Conditions to Avoid:</b>	Heat, flame, sparks and strong oxidizing agents.
<b>Incompatibility (Materials to Avoid):</b>	Strong oxidizing agents, including chlorine and hypochlorite.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon monoxide, carbon dioxide, carbon and silicone oxides.
<b>Hazardous Polymenzation:</b>	Will Not Occur.

## **Section 11: Toxicology Information:**

<b>Effects of Acute Exposure</b>	May cause mild eye irritation, and skin irritation. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting which can results in lung inflammation and other lung injury.	
<b>Acute Oral Toxicity:</b>	Solvent Naphtha (Petroleum), Heavy aliphatic	LD 50 Rat: > 5g/kg
<b>Acute Inhalation Toxicity:</b>	Solvent Naphtha (Petroleum), Heavy aliphatic	LD 50 Rat: > 5 mg/l, 4h
<b>Acute Dermal Toxicity:</b>	Solvent Naphtha (Petroleum), Heavy aliphatic	LD 50 Rat: > 2,000 mg/kg

## **Section 12: Ecological Information:**

<b>Ecotoxicity:</b>	Not Available
<b>Persistence/Degradability:</b>	Not Available
<b>Bioaccumulation/Accumulation:</b>	Not Available
<b>Mobility in Environment:</b>	Not Available

## **Section 13: Disposal Considerations:**

**Disposal Instructions:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## **Section 14: Transportation Information:**

<b>DOT, TDG, IMDG Classification:</b>	Not D.O.T. Regulated
<b>Proper Shipping Name:</b>	Cleaning Compound, Non-Hazardous material
<b>UN Number:</b>	NA
<b>Hazard Class:</b>	NA
<b>Packing Group:</b>	NA



# SAFETY DATA SHEET

Purple Power Prime-Shine Tire Shine

## **Section 15: Regulatory Information:**

### **Chemical Inventories:**

**TSCA:** All components are listed on the Toxic Substance Control Act Chemical Substances Inventory

**SARA Section 311:** Hazard Category: Acute Health Hazard, Fire Hazard

**SARA Section 313:** Toxic Release Inventory Chemical: None

**California Safe Drinking Water Enforcement Act (Prop 65):** This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### **Pennsylvania (Worker and Community Right-to-Know act):**

**Pennsylvania Special Hazardous Substance List and/or Pennsylvania Environmental Hazardous**

**Substance list:** To the best of our knowledge, this product does not contain chemicals that require reporting under this statute.

**New Jersey Right-to-Know Hazardous Substance List:** To the best of our knowledge, this product does not contain chemicals that require reporting under this statute.

**Massachusetts Substance List:** To the best of our knowledge, this product does not contain chemicals that require reporting under this statute.

## **Section 16: Other Information:**

<b>NFPA</b>	<b>Health Hazard</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical &amp; Chemical Hazards</b>
	1	1	0	NA
<b>HMS</b>	<b>Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>	<b>Personal Protection</b>
	1	1	0	C

### **Prepared By:**

Aiken Chemical Company, Inc.  
12 Shelter Drive  
Greer, SC 29650

### **Preparation/Revision Date:**

May 29, 2015

### **Revision Date:**

### **General 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 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.

**1. Identification**

**Product identifier** SPRAY CLEAN HD

**Other means of identification**

**SDS number** 507N09B

**Product code** HIL01018

**Recommended use** General Cleaner

**Recommended restrictions** For Labeled Use Only

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** HILLYARD INDUSTRIES

**Address** 302 North Fourth St.

St. Joseph, MO 64501

**Contact person** Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

**Fax** (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

**2. Hazard(s) identification**

**Physical hazards** Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2A

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning

**Hazard statement** Causes serious eye irritation.

**Precautionary statement**

**Prevention** Wash thoroughly after handling. Wear eye protection/face protection.

**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.

**Storage** Store away from incompatible materials.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

**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	%
2-Methoxymethylethoxypropan ol [DPM]		34590-94-8	3 - < 5
Alcohols, C9-11, Ethoxylated		68439-46-3	1 - < 3
Ethanolamine		141-43-5	< 1
Other components below reportable levels			90 - 100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water.  Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following 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.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm
Ethanolamine (CAS 141-43-5)	PEL	6 mg/m3
		3 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm
Ethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8)	STEL	900 mg/m3
	TWA	150 ppm
		600 mg/m3
		100 ppm
Ethanolamine (CAS 141-43-5)	STEL	15 mg/m3
	TWA	6 ppm
		8 mg/m3
		3 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### US - California OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM]  
(CAS 34590-94-8) Can be absorbed through the skin.

#### US - Tennessee OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM]  
(CAS 34590-94-8) Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

2-Methoxymethylethoxypropan ol [DPM]  
(CAS 34590-94-8) Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Methoxymethylethoxypropan ol [DPM]  
(CAS 34590-94-8) Can be absorbed through the skin.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Methoxymethylethoxypropan ol [DPM]  
(CAS 34590-94-8) Can be absorbed through the skin.

### Appropriate engineering 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.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Avoid contact with eyes.
<b>Skin protection</b>	
<b>Hand protection</b>	Not normally needed.
<b>Other</b>	Not normally needed.
<b>Respiratory protection</b>	Not normally required with adequate ventilation.
<b>Thermal hazards</b>	None known.

**General hygiene considerations** 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

<b>Appearance</b>	Clear, dark purple liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Dark purple
<b>Odor</b>	Mountain berry
<b>Odor threshold</b>	Not available
<b>pH</b>	10.5 - 11.5
<b>Melting point/freezing point</b>	Not available
<b>Initial boiling point and boiling range</b>	207 °F (97.22 °C)
<b>Flash point</b>	> 212.0 °F (> 100.0 °C) Tag Closed Cup
<b>Evaporation rate</b>	< 1 Ethyl ether = 1
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	17.4 mm Hg
<b>Vapor density</b>	0.87 Air=1
<b>Relative density</b>	1.021 at 77°F
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	100 % complete
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other information</b>	
<b>Density</b>	8.50 lb/gal
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	> 98 %
<b>VOC</b>	6.2 %

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.

**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** No adverse effects due to skin contact are expected.  
**Eye contact** Causes serious eye irritation.  
**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** Not known.

Components	Species	Test Results
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Ethanolamine (CAS 141-43-5)

#### Acute

##### **Dermal**

LD50	Rabbit	1025 mg/kg
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\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Prolonged inhalation may be harmful.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** 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.

Product	Species	Test Results	
SPRAY CLEAN HD			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	478.3585 mg/l, 48 hours estimated
Fish	LC50	Fish	637.273 mg/l, 96 hours estimated

Components	Species	Test Results
Alcohols, C9-11, Ethoxylated (CAS 68439-46-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 2.9 - 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours
Ethanalamine (CAS 141-43-5)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 114 - 196 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

Ethanalamine -1.31

**Mobility in soil** No data available.

**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** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. 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). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

**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. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

**14. Transport information**

**DOT** Not regulated as dangerous goods.

**IATA** Not regulated as dangerous goods.

**IMDG** Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or Exempt.

**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.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
 Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
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** 01-22-2015  
**Revision date** 11-07-2017  
**Version #** 03  
**HMIS® ratings** Health: 2  
 Flammability: 0  
 Physical hazard: 0

**Disclaimer**

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

**Revision information**

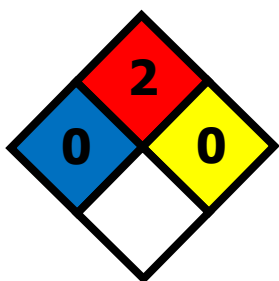
This document has undergone significant changes and should be reviewed in its entirety.



**Material Safety Data Sheet**



**NFPA**



**HMIS**

Health Hazard	0
Fire Hazard	2
Reactivity	0

Issuing Date **August 16, 2010**      Revision Date **November 18, 2013**      Revision Number **4**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** STIHL 2-CYCLE HP ENGINE OIL

**Product Code** F-3A, 0781-319-8008, 0781-319-8009, 0781-319-8010, 0781-319-8044, 0781-319-8045, 0781-319-8051, 0781-319-8008, 7010-871-0177, 7010-871-0208

**Recommended Use** 2-cycle Engine Oil

**Manufactured by:** Omni Specialty Packaging  
10399 S. Hwy 1  
Shreveport, LA 71115  
Phone: 1 (318) 524-1100

**Emergency Telephone Number** CHEMTREC  
1 (800) 424-9300

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Appearance** Blue      **Physical State** Liquid      **Odor** Mild

**Potential Health Effects**

**Principal Routes of Exposure** Eye contact, Skin contact, Inhalation, Ingestion

**Acute Toxicity**

**Eyes** Practically non- irritating to the eye upon direct contact.

**Skin** Substance minimally irritating upon direct contact.

**Inhalation** Low hazard at standard temperatures and pressures. Inhalation of oil mist or fumes can cause irritation of the nose, throat and upper respiratory tract

**Ingestion** Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

- Other** On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.
- Chronic Effects** Prolonged exposure may cause chronic effects.
- Aggravated Medical Conditions** Personnel with pre-existing skin disorders should avoid contact with this product.
- Environmental Hazard** See Section 12 for additional Ecological Information.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Formula** Mixture

Chemical Name	CAS-No	Weight %
Petroleum Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	10-20
Petroleum Distillates, Solvent Dewaxed heavy Paraffinic	64742-65-0	70-80
Additive Package	Mixture	5-10
Dye	Mixture	0-0.1

**4. FIRST AID MEASURES**

- Eye Contact** Flush with large amounts of water for 15 minutes. Get medical attention if eye irritation develops or persists. If material is hot, treat for thermal burns and take victim to the hospital immediately.
- Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention immediately if skin discoloration occurs.
- Inhalation** This material is not expected to present an inhalation exposure at ambient conditions
- Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention or advice.
- Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

- Flammable Properties** Not flammable.
- Flash Point** 170°F
- Suitable Extinguishing Media** Water Fog. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.
- Unsuitable Extinguishing Media** Not Available
- Hazardous Combustion Products** Not Available
- Explosion Data**
  - Sensitivity to Mechanical Impact** Not sensitive.
  - Sensitivity to Static Discharge** Not sensitive.
- Protective Equipment and Precautions for Firefighters** Wear positive pressure self-contained breathing apparatus (SCBA). Use water to cool containers exposed to flames. Structural firefighters' protective clothing will only provide limited protection. Mist or sprays may be flammable below the product normal flash point.

**NFPA** Health Hazard 0 Flammability 2 Stability 0 Physical and Chemical Hazards -

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.

**Methods for Containment** Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up** Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.

**Evacuation Procedures**  
**Large Spill** Consider initial downwind evacuate for at least 300 meters (1000 feet).  
**Fire** If tank, rail car or tank car 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.

**Reporting Requirements** Spills that enter a water body must be reported immediately to the USEPA's National Response Center at (800)424-8802. Check with your local and state regulators regarding their reporting requirements.

**7. HANDLING AND STORAGE**

**Handling** Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.

**Storage** Store away from heat, sparks, open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum Distillates, Hydrotreated Heavy Paraffinic 64742-54-7	5 mg/m3 8 hour(s). Form: Mist	5 mg/m3 8 hour(s). Form: Mist	2,500 mg/m3
Petroleum Distillates, Solvent Dewaxed heavy Paraffinic 64742-65-0	5 mg/m3 8 hour(s). Form: Mist	5 mg/m3 8 hour(s). Form: Mist	2,500 mg/m3

**Engineering Measures** Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended limits.

**Personal Protective Equipment**  
**Eye/Face Protection** Safety glasses with side-shields. If splashes are likely to occur, wear goggles. Full face-shield to be worn during emergencies.  
**Skin and Body Protection** As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.  
**Respiratory Protection** Not normally needed. During emergencies wear respirator.

**Hygiene Measures** Remove and wash contaminated clothing before re-use. Wash hands before

breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Blue	<b>Odor</b>	Mild Petroleum Oder
<b>Physical State</b>	Liquid	<b>pH</b>	N/A
<b>Flash Point</b>	170°F	<b>Autoignition Temperature</b>	N/A
<b>Boiling Point/Range</b>	N/A	<b>Freezing Point</b>	0°F
<b>Explosion Limits</b>	N/A	<b>Flammability Limits in Air</b>	N/A
<b>Specific Gravity</b>	0.87	<b>Solubility</b>	Negligible
<b>Evaporation Rate</b>	N/A	<b>Vapor Pressure</b>	<0.01
<b>Vapor Density</b>	Not Determined	<b>Density</b>	N/A

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Open Flame and strong oxidizing agents.
<b>Conditions to Avoid</b>	Heat, flames, and sparks.
<b>Hazardous Decomposition Products</b>	Decomposition and combustion products may include smoke, carbon dioxide, carbon monoxide, and toxic fumes.
<b>Hazardous Polymerization</b>	None under normal processing.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

<b>Product Information</b>	Test on similar materials show a low order of acute oral and dermal toxicity.
<b>Acute Oral Effects</b>	Test on similar materials indicates low order of acute toxicity.
<b>Acute Inhalation Effects</b>	Low acute toxicity expected on inhalation.
<b>Skin Effects</b>	Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.
<b>Eye Irritation</b>	Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum Distillates, Hydrotreated Heavy Paraffinic 64742-54-7	Rat >2000 mg/kg	Rabbit >2000 mg/kg	Rat > 2.18 mg/L 4 hours
Petroleum Distillates, Solvent Dewaxed heavy Paraffinic 64742-65-0	Rat >2000 mg/kg	Rabbit >2000 mg/kg	Rat > 2.18 mg/L 4 hours

**Chronic Toxicity**

<b>Chronic Toxicity</b>	Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%
<b>Target Organ Effects</b>	Respiratory system, Eyes, Skin, Central nervous system (CNS)

**Genotoxicity** This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of in accordance with local regulations. Keep this product out of sewers and waterways.

**Contaminated Packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum Distillates, Hydrotreated Heavy Paraffinic 64742-54-7	Present	X	265-157-1	X	X	X	X	X
Petroleum Distillates, Solvent Dewaxed heavy Paraffinic 64742-65-0	Present	X	265-169-7	X	X	X	X	X

**U.S. 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 No

Chronic Health Hazard No

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

**Clean Water Act**

**STIHL 2-CYCLE HP ENGINE OIL**

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452

Revision Date: **November 18, 2013**

If spilled into navigable waters it is reportable to National Response Center, 800-424-8802. Reportable Quantity = Oil Sheen present on navigable water surface. (40 CFR 116; 401.15)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**Florida**

No listed ingredients are present

**Massachusetts RTK**

No listed ingredients are present

**Minnesota RTK**

No listed ingredients are present

**New Jersey RTK**

Lists petroleum oil, but this product does not contain hazardous ingredients.

**Pennsylvania RTK**

Lists petroleum oil, but this product does not contain hazardous ingredients greater than 3%.

**Illinois DOL TSL**

No listed ingredients are present

**International Regulations**

**Mexico – Grade**

No information available.

**Canada**

Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation

**CONEG Metals**

Since cadmium, chromium, lead and mercury are not detectable and it does not exceed 100 ppm total in this product, it is compliant with CONEG Metals regulation.

**EEC (Europe)**

This product is not known to be a dangerous good internationally.

No known R-Phrases or S-Phrases

Hazard Label           None

Danger Symbol         None

**This 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 CPR.**

**WHMIS Hazard Class**

D2B Toxic materials

**16. OTHER INFORMATION**

<b>Prepared By</b>	Jim Prothro
<b>Issuing Date</b>	August 16, 2010
<b>Revision Date</b>	November 18, 2013
<b>Revision Note</b>	Updated product numbers

**Disclaimer**

The information provided on this MSDS 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 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.

The End

**Common Name:** LACQUER THINNER

**Manufacturer:** SUNNYSIDE

**SDS Revision Date:** 5/28/2015

**SDS Format:** GHS-US

**Grainger Item Number(s):** 22M494, 5KPY2

**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

PRODUCT NUMBER: 457

ISSUING DATE: NO DATA AVAILABLE

REVISION DATE: 05/28/15

REVISION NUMBER: 1

UL

THE SUPPLIER IDENTIFIED BELOW GENERATED THIS SDS USING THE UL SDS TEMPLATE. UL DID NOT TEST, CERTIFY, OR APPROVE THE SUBSTANCE DESCRIBED IN THIS SDS, AND ALL INFORMATION IN THIS SDS WAS PROVIDED BY THE SUPPLIER OR WAS REPRODUCED FROM PUBLICALLY AVAILABLE REGULATORY DATA SOURCES. UL MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE COMPLETENESS OR ACCURACY OF THE INFORMATION IN THIS SDS AND DISCLAIMS ALL LIABILITY IN CONNECTION WITH THE USE OF THIS INFORMATION OR THE SUBSTANCE DESCRIBED IN THIS SDS. THE LAYOUT, APPEARANCE AND FORMAT OF THIS SDS IS (C) 2014 UL LLC. ALL RIGHTS RESERVED.

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

AND OF THE COMPANY/UNDERTAKING

PRODUCT IDENTIFIER:

PRODUCT NAME: SUNNYSIDE LACQUER THINNER

OTHER MEANS OF IDENTIFICATION:

SYNONYMS: NONE

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: THINNING LACQUERS

USES ADVISED AGAINST: NO INFORMATION AVAILABLE

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER NAME: SUNNYSIDE CORPORATION

SUPPLIER ADDRESS:  
225 CARPENTER AVENUE  
WHEELING, IL 60090  
US

SUPPLIER PHONE NUMBER:

PHONE: 8003238611

FAX: 8475419043

SUPPLIER EMAIL: SSCONTACT@SUNNYSIDECORP.COM

EMERGENCY TELEPHONE NUMBER:

CHEM TREC: 8004249300

## 2. HAZARDS IDENTIFICATION



CLASSIFICATION:

THIS CHEMICAL IS CONSIDERED HAZARDOUS BY THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

ACUTE TOXICITY - ORAL: CATEGORY 4

ACUTE TOXICITY - DERMAL: CATEGORY 4

ACUTE TOXICITY - INHALATION (VAPORS): CATEGORY 4

SKIN CORROSION/IRRITATION: CATEGORY 2

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2

GERM CELL MUTAGENICITY: CATEGORY 1B

CARCINOGENICITY: CATEGORY 2

REPRODUCTIVE TOXICITY: CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): CATEGORY 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): CATEGORY 2

ASPIRATION TOXICITY: CATEGORY 1

FLAMMABLE LIQUIDS: CATEGORY 2

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:



EMERGENCY OVERVIEW:

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

HARMFUL IF SWALLOWED

HARMFUL IN CONTACT WITH SKIN

HARMFUL IF INHALED

CAUSES SKIN IRRITATION

CAUSES SERIOUS EYE IRRITATION

MAY CAUSE GENETIC DEFECTS

SUSPECTED OF CAUSING CANCER

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO ORGANS

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

HIGHLY FLAMMABLE LIQUID AND VAPOR

EXCLAMATION MARK

HEALTH HAZARD

FLAME

APPEARANCE: CLEAR

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

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

USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA

DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY

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 STATIC DISCHARGE

PRECAUTIONARY STATEMENTS - RESPONSE:

SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THIS LABEL)

IF EXPOSED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN

SKIN:

IF ON SKIN (OR HAIR):

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION

CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL

WASH CONTAMINATED CLOTHING BEFORE REUSE

INHALATION:

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

INGESTION:

RINSE MOUTH

IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

DO NOT INDUCE VOMITING

FIRE:

IN CASE OF FIRE: USE CO2, DRY CHEMICAL, OR FOAM FOR EXTINCTION

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

UNKNOWN TOXICITY:

0% OF THE MIXTURE CONSISTS OF INGREDIENT(S) OF UNKNOWN TOXICITY

OTHER INFORMATION:

HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS

INTERACTIONS WITH OTHER CHEMICALS:

USE OF ALCOHOLIC BEVERAGES MAY ENHANCE TOXIC EFFECTS.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NO	WEIGHT-%	TRADE SECRET
ETHYLACETATE	141-78-6	15 - 40	
METHYL ALCOHOL	67-56-1	10 - 30	
ACETONE	67-64-1	10 - 30	
TOLUENE	108-88-3	7 - 13	
ALIPHATIC NAPHTHA	64742-89-8	7 - 13	
XYLENE	1330-20-7	5 - 10	
METHYL ETHYL KETONE	78-93-3	3 - 7	
ETHYLBENZENE	100-41-4	1 - 5	

\*THE EXACT PERCENTAGE (CONCENTRATION) OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET

### 4. FIRST AID MEASURES



FIRST AID MEASURES:

GENERAL ADVICE:

SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.

EYE CONTACT:

RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. KEEP EYE WIDE OPEN WHILE RINSING. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. DO NOT RUB AFFECTED AREA.

IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

SKIN CONTACT:

WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER WHILE REMOVING ALL CONTAMINATED CLOTHES AND SHOES. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, (TRAINED PERSONNEL SHOULD) GIVE OXYGEN.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH IMMEDIATELY AND DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SELF-PROTECTION OF THE FIRST AIDER:

ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, TAKE PRECAUTIONS TO PROTECT THEMSELVES AND PREVENT SPREAD OF CONTAMINATION. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

MOST IMPORTANT SYMPTOMS AND EFFECTS:

BURNING SENSATION. COUGHING AND/ OR WHEEZING. DIFFICULTY IN BREATHING. DIZZINESS.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN:

TREAT SYMPTOMATICALLY. BECAUSE OF THE DANGER OF ASPIRATION, EMESIS OR GASTRIC LAVAGE SHOULD NOT BE EMPLOYED UNLESS THE RISK IS JUSTIFIED BY THE PRESENCE OF ADDITIONAL TOXIC SUBSTANCES.

## 5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

DRY CHEMICAL. CARBON DIOXIDE (CO2). ALCOHOL RESISTANT FOAM.

UNSUITABLE EXTINGUISHING MEDIA:

CAUTION:

ALL THESE PRODUCTS HAVE A VERY LOW FLASH POINT. USE OF WATER SPRAY WHEN FIGHTING FIRE MAY BE INEFFICIENT.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

VAPORS CAN FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL TO SOURCE OF IGNITION AND FLASH BACK. MOST VAPORS ARE HEAVIER THAN AIR. THEY WILL SPREAD ALONG GROUND AND COLLECT IN LOW OR CONFINED AREAS (SEWERS, BASEMENTS, TANKS). VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

UNIFORM FIRE CODE:

FLAMMABLE LIQUID: I-B

IRRITANT: LIQUID

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NO.

SENSITIVITY TO STATIC DISCHARGE: YES.

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:

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. FULL ENCAPSULATING, VAPOR PROTECTIVE CLOTHING SHOULD BE WORN FOR SPILLS AND LEAKS WITH NO FIRE. STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

OTHER INFORMATION:

WATER SPRAY MAY REDUCE VAPOR; BUT MAY NOT PREVENT IGNITION IN CLOSED SPACES.

ENVIRONMENTAL PRECAUTIONS:

ENVIRONMENTAL PRECAUTIONS:

PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS. ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS FOR LATER DISPOSAL.

METHODS FOR CLEANING UP:

USE CLEAN NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL. DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

## 7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. AVOID BREATHING VAPORS OR MISTS. USE PERSONAL PROTECTION EQUIPMENT. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. USE GROUNDING AND BONDING CONNECTION WHEN TRANSFERRING THIS MATERIAL TO PREVENT STATIC DISCHARGE, FIRE OR EXPLOSION. USE WITH LOCAL EXHAUST VENTILATION. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. KEEP IN AN AREA EQUIPPED WITH SPRINKLERS. USE ACCORDING TO PACKAGE LABEL INSTRUCTIONS.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE:

KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF THE REACH OF CHILDREN. PROTECT FROM MOISTURE. STORE AWAY FROM OTHER MATERIALS. STORE LOCKED UP. KEEP AWAY FROM HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (I.E., PILOT LIGHTS, ELECTRIC MOTORS AND STATIC ELECTRICITY). KEEP IN PROPERLY LABELED CONTAINERS. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. KEEP IN AN AREA EQUIPPED WITH SPRINKLERS. STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS. STORE IN ACCORDANCE WITH LOCAL REGULATIONS.

INCOMPATIBLE PRODUCTS:  
 STRONG ACIDS. STRONG OXIDIZING AGENTS. STRONG BASES. CHLORINATED COMPOUNDS.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



CONTROL PARAMETERS:

EXPOSURE GUIDELINES:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
ETHYLACETATE 141-78-6	TWA: 400 PPM	TWA: 400 PPM	IDLH: 2000 PPM
		TWA: 1400 MG/M3	TWA: 400 PPM
		(VACATED) TWA: 400 PPM	TWA: 1400 MG/M3
		(VACATED) TWA: 1400 MG/M3	
METHYL ALCOHOL 67-56-1	STEL: 250 PPM TWA: 200 PPM S*	TWA: 200 PPM	IDLH: 6000 PPM
		TWA: 260 MG/M3	TWA: 200 PPM
		(VACATED) TWA: 200 PPM	TWA: 260 MG/M3
		(VACATED) TWA: 260 MG/M3	STEL: 325 MG/M3
		(VACATED) STEL: 250 PPM	STEL: 250 PPM
		(VACATED) STEL: 325 MG/M3	
ACETONE	STEL: 750 PPM TWA: 500 PPM	TWA: 1000 PPM	IDLH:
		TWA: 2400 MG/M3	2500 PPM 10% LEL
		(VACATED) TWA: 1800 MG/M3	TWA: 250 PPM
		(VACATED) TWA: 750 PPM	TWA: 590 MG/M3
		(VACATED) STEL: 1000 PPM	
		(VACATED) STEL: 2400 MG/M3	
TOLUENE 108-88-3	TWA: 20 PPM	TWA: 200 PPM	IDLH: 500 PPM
		(VACATED) TWA: 100 PPM	TWA: 100 PPM
		(VACATED) TWA: 375 MG/M3	TWA: 375 MG/M3
		(VACATED) STEL: 150 PPM	STEL: 150 PPM
		(VACATED) STEL: 560 MG/M3	STEL: 560 MG/M3



INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

IF SPLASHES ARE LIKELY TO OCCUR: TIGHT SEALING SAFETY GOGGLES.

SKIN AND BODY PROTECTION:

WEAR PROTECTIVE GLOVES AND PROTECTIVE CLOTHING. LONG SLEEVED CLOTHING.  
IMPERVIOUS GLOVES. CHEMICAL RESISTANT APRON. ANTISTATIC BOOTS.

RESPIRATORY PROTECTION:

NO PROTECTIVE EQUIPMENT IS NEEDED UNDER NORMAL USE CONDITIONS. IF EXPOSURE LIMITS ARE EXCEEDED OR IRRITATION IS EXPERIENCED, VENTILATION AND EVACUATION MAY BE REQUIRED.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.  
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.  
WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. REGULAR CLEANING OF EQUIPMENT, WORK AREA AND CLOTHING IS RECOMMENDED.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR

ODOR: MILD

COLOR: NO INFORMATION AVAILABLE

ODOR THRESHOLD: NO INFORMATION AVAILABLE

PROPERTY	VALUES	REMARKS/METHOD
PH	N/A	NONE KNOWN
MELTING / FREEZING POINT	NO DATA AVAILABLE	NONE KNOWN
BOILING POINT / BOILING RANGE	56 DEG. C / 133 DEG. F	NONE KNOWN
FLASH POINT	-18 C / 0 F	NONE KNOWN
EVAPORATION RATE	NO DATA AVAILABLE	NONE KNOWN
FLAMMABILITY (SOLID, GAS)	NO DATA AVAILABLE	NONE KNOWN
FLAMMABILITY LIMIT IN AIR:		
UPPER FLAMMABILITY LIMIT	NO DATA AVAILABLE	
LOWER FLAMMABILITY LIMIT	NO DATA AVAILABLE	
VAPOR PRESSURE	NO DATA AVAILABLE	NONE KNOWN
VAPOR DENSITY	NO DATA AVAILABLE	NONE KNOWN
SPECIFIC GRAVITY	NO DATA AVAILABLE	NONE KNOWN
WATER SOLUBILITY	MODERATE	NONE KNOWN
SOLUBILITY IN OTHER SOLVENTS	NO DATA AVAILABLE	NONE KNOWN

PARTITION COEFFICIENT N-OCTANOL/WATER	NO DATA AVAILABLE	NONE KNOWN
AUTOIGNITION TEMPERATURE	NO DATA AVAILABLE	NONE KNOWN
DECOMPOSITION TEMPERATURE	NO DATA AVAILABLE	NONE KNOWN
KINEMATIC VISCOSITY	NO DATA AVAILABLE	NONE KNOWN
DYNAMIC VISCOSITY	NO DATA AVAILABLE	NONE KNOWN
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE	
OXIDIZING PROPERTIES	NO DATA AVAILABLE	
OTHER INFORMATION:		
SOFTENING POINT	NO DATA AVAILABLE	
VOC CONTENT (%)	90%	
PARTICLE SIZE	NO DATA AVAILABLE	
PARTICLE SIZE DISTRIBUTION:		

## 10. STABILITY AND REACTIVITY



REACTIVITY: NO DATA AVAILABLE.

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE UNDER NORMAL PROCESSING.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

CONDITIONS TO AVOID: EXCESSIVE HEAT. HEAT, FLAMES AND SPARKS.

INCOMPATIBLE MATERIALS:

STRONG ACIDS. STRONG OXIDIZING AGENTS. STRONG BASES. CHLORINATED COMPOUNDS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

## 11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

PRODUCT DOES NOT PRESENT AN ACUTE TOXICITY HAZARD BASED ON KNOWN OR SUPPLIED INFORMATION.

INHALATION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. MAY CAUSE IRRITATION OF RESPIRATORY TRACT. HARMFUL BY INHALATION. (BASED ON COMPONENTS). ASPIRATION INTO LUNGS CAN PRODUCE SEVERE LUNG DAMAGE. MAY CAUSE PULMONARY EDEMA. PULMONARY EDEMA CAN BE FATAL.

EYE CONTACT:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. EXPECTED TO BE AN IRRITANT BASED ON COMPONENTS. IRRITATING TO EYES. MAY CAUSE REDNESS, ITCHING, AND PAIN. MAY CAUSE TEMPORARY EYE IRRITATION. MAY CAUSE IRRITATION.

SKIN CONTACT:



SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. EXPECTED TO BE AN IRRITANT BASED ON COMPONENTS. IRRITATING TO SKIN. PROLONGED CONTACT MAY CAUSE REDNESS AND IRRITATION. MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. HARMFUL IN CONTACT WITH SKIN. (BASED ON COMPONENTS). REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

INGESTION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. INGESTION MAY CAUSE IRRITATION TO MUCOUS MEMBRANES. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. MAY BE HARMFUL IF SWALLOWED. (BASED ON COMPONENTS). POTENTIAL FOR ASPIRATION IF SWALLOWED. MAY CAUSE LUNG DAMAGE IF SWALLOWED. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
ETHYLACETATE 141-78-6	=5620 MG/KG (RAT)	>20 ML/KG (RABBIT)	
METHYL ALCOHOL 67-56-1	=5628 MG/KG (RAT)		=83.2 MG/L (RAT) 4 H
ACETONE 67-64-1			=50100 MG/M3 (RAT) 8 H
TOLUENE 108-88-3	=636 MG/KG (RAT)	=8390 MG/KG (RABBIT)	=12.5 MG/L (RAT) 4 H  >26700 PPM (RAT) 1 H
ALIPHATIC NAPHTHA 64742-89-8			=23500 MG/M3 (RAT) 8 H
XYLENE 1330-20-7	=4300 MG/KG (RAT)	>1700 MG/KG (RABBIT)	=47635 MG/L (RAT) 4 H  =5000 PPM (RAT) 4 H
METHYL ETHYL KETONE 78-93-3		=3000 MG/KG (RABBIT)	
ETHYLBENZENE 100-41-4	=3500 MG/KG (RAT)	=15354 MG/KG (RABBIT)	=17.2 MG/L (RAT) 4 H

INFORMATION ON TOXICOLOGICAL EFFECTS:

SYMPTOMS:

ERYTHEMA (SKIN REDNESS). MAY CAUSE REDNESS AND TEARING OF THE EYES. COUGHING AND/OR WHEEZING. DIFFICULTY IN BREATHING. ASTHMA-LIKE AND/OR SKIN ALLERGY-LIKE SYMPTOMS.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

SENSITIZATION: NO INFORMATION AVAILABLE.

MUTAGENIC EFFECTS:

THERE IS NO DATA AVAILABLE FOR THIS PRODUCT. CONTAINS A KNOWN OR SUSPECTED MUTAGEN.

CARCINOGENICITY:

THE TABLE BELOW INDICATES WHETHER EACH AGENCY HAS LISTED ANY INGREDIENT AS A CARCINOGEN.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
TOLUENE 108-88-3		GROUP 3		
XYLENE 1330-20-7		GROUP 3		
ETHYLBENZENE 100-41-4	A3	GROUP 2B		X

ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS):  
A3 - ANIMAL CARCINOGEN

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):  
GROUP 2B - POSSIBLY CARCINOGENIC TO HUMANS  
GROUP 3 - NOT CLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS

OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE US DEPARTMENT OF LABOR):  
X - PRESENT

REPRODUCTIVE TOXICITY:  
PRODUCT IS OR CONTAINS A CHEMICAL WHICH IS A KNOWN OR SUSPECTED REPRODUCTIVE HAZARD. CONTAINS A KNOWN OR SUSPECTED REPRODUCTIVE TOXIN.

STOT - SINGLE EXPOSURE:  
BASED ON CLASSIFICATION CRITERIA FROM THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), THIS PRODUCT HAS BEEN DETERMINED TO CAUSE SYSTEMIC TARGET ORGAN TOXICITY FROM ACUTE EXPOSURE. (STOT SE). IF THIS PRODUCT IS A MIXTURE, THE CLASSIFICATION IS NOT BASED ON TOXICOLOGY STUDIES FOR THIS PRODUCT, BUT IS BASED SOLELY ON TOXICOLOGY STUDIES FOR INGREDIENTS FOUND WITHIN THIS PRODUCT. DETAILED SUBSTANCE AND/OR INGREDIENT INFORMATION MAY BE PROVIDED IN OTHER SECTIONS OF THIS SDS. TARGET ORGANS EFFECTS LISTED IN THIS DOCUMENT MAY RESULT FROM A SINGLE OVEREXPOSURE TO THIS PRODUCT. CAUSES DAMAGE TO ORGANS IF SWALLOWED. CAUSES DAMAGE TO ORGANS IN CONTACT WITH SKIN. CAUSES DAMAGE TO ORGANS IF INHALED.

STOT - REPEATED EXPOSURE:  
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. BASED ON CLASSIFICATION CRITERIA FROM THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), THIS PRODUCT HAS BEEN DETERMINED TO CAUSE SYSTEMIC TARGET ORGAN TOXICITY FROM CHRONIC OR REPEATED EXPOSURE. (STOT RE).

CHRONIC TOXICITY:  
NO KNOWN EFFECT BASED ON INFORMATION SUPPLIED. CONTAINS A KNOWN OR SUSPECTED MUTAGEN. POSSIBLE RISK OF IRREVERSIBLE EFFECTS. CONTAINS A KNOWN OR SUSPECTED CARCINOGEN. CONTAINS A KNOWN OR SUSPECTED REPRODUCTIVE TOXIN. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. EFFECTS FROM THIS PRODUCT CAUSED BY ACUTE EXPOSURE MAY CAUSE PERMANENT DAMAGE TO TARGET ORGANS AND/OR MAY CAUSE CHRONIC CONDITIONS. AVOID REPEATED EXPOSURE. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS. MAY CAUSE ADVERSE LIVER EFFECTS. CONTAINS TOLUENE. EXPOSURE TO TOLUENE IN ANIMALS VIA INHALATION AND INTENTIONAL OVEREXPOSURE TO TOLUENE IN HUMANS HAS CAUSED ADVERSE FETAL DEVELOPMENT EFFECTS.

TARGET ORGAN EFFECTS:  
RESPIRATORY SYSTEM. EYES. SKIN. MAY AFFECT THE GENETIC MATERIAL IN GERM CELLS (SPERM AND EGGS). GASTROINTESTINAL TRACT (GI). REPRODUCTIVE SYSTEM. CENTRAL NERVOUS SYSTEM (CNS). KIDNEY. LIVER. BLOOD. SYSTEMIC TOXICITY.

ASPIRATION HAZARD: NO INFORMATION AVAILABLE.

NUMERICAL MEASURES OF TOXICITY PRODUCT INFORMATION:

THE FOLLOWING VALUES ARE CALCULATED BASED ON CHAPTER 3.1 OF THE GHS DOCUMENT:  
ATEMIX (ORAL): 427.00 MG/KG

ATEMIX (DERMAL): 1,275.00 MG/KG (ATE)  
 ATEMIX (INHALATION-GAS): 3,193.00 PPM (4 HR)  
 ATEMIX (INHALATION-DUST/MIST): 2.00 MG/L  
 ATEMIX (INHALATION-VAPOR): 13.00 ATEMIX

## 12. ECOLOGICAL INFORMATION



ECOTOXICITY: HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PERSISTENCE AND DEGRADABILITY: NO INFORMATION AVAILABLE.

BIOACCUMULATION:

CHEMICAL NAME	LOG POW
ETHYLACETATE 141-78-6	0.6
METHYL ALCOHOL 67-56-1	-0.77
ACETONE 67-64-1	-0.24
TOLUENE 108-88-3	2.65
METHYL ETHYL KETONE 78-93-3	0.29
XYLENE 1330-20-7	2.77 - 3.15
ETHYLBENZENE 100-41-4	3.118

OTHER ADVERSE EFFECTS: NO INFORMATION AVAILABLE.

## 13. DISPOSAL CONSIDERATIONS



WASTE TREATMENT METHODS:

DISPOSAL METHODS:

THIS MATERIAL, AS SUPPLIED, IS A HAZARDOUS WASTE ACCORDING TO FEDERAL REGULATIONS (40 CFR 261).

CONTAMINATED PACKAGING:

DISPOSE OF CONTENTS/CONTAINERS IN ACCORDANCE WITH LOCAL REGULATIONS.

US EPA WASTE NUMBER:

D001  
 D035  
 U220  
 U002  
 U154  
 U159  
 U239

CHEMICAL NAME	RCRA	RCRA - BASIS FOR LISTING	RCRA - D SERIES WASTES	RCRA - U SERIES WASTES
ETHYLACETATE 141-78-6		INCLUDED IN WASTE STREAM:		U112

F039

METHYL ALCOHOL  
67-56-1 INCLUDED IN WASTE STREAM: U154  
F039

ACETONE U002  
67-64-1

TOLUENE U220 INCLUDED IN WASTE STREAMS: U220  
108-88-3 F005, F024,  
F025, F039,  
K015, K036,  
K037, K149,  
K151

METHYL ETHYL WASTE INCLUDED IN =200.0 MG/L U159  
KETONE NUMBER WASTE STREAMS: REGULATORY  
78-93-3 U159 F005, F039 LEVEL

XYLENE INCLUDED IN U239  
1330-20-7 WASTE STREAM:  
F039

ETHYLBENZENE INCLUDED IN  
100-41-4 WASTE STREAM:  
F039

CHEMICAL NAME	RCRA - HALOGENATED ORGANIC COMPOUNDS	RCRA - P SERIES WASTES	RCRA - F SERIES WASTES	RCRA - K SERIES WASTES
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TOLUENE  
108-88-3

TOXIC WASTE  
WASTE NUMBER:  
F025

WASTE DESCRIPTION:  
CONDENSED LIGHT ENDS,  
SPENT FILTERS AND  
FILTER AIDS, AND SPENT  
DESICCANT WASTES FROM  
THE PRODUCTION OF  
CERTAIN CHLORINATED  
ALIPHATIC HYDROCARBONS,  
BY FREE RADICAL  
CATALYZED PROCESSES.  
THESE CHLORINATED  
ALIPHATIC HYDROCARBONS  
ARE THOSE HAVING CARBON  
CHAIN LENGTHS RANGING  
FROM ONE TO AND  
INCLUDING FIVE, WITH  
VARYING AMOUNTS AND  
POSITIONS OF CHLORINE  
SUBSTITUTION.

CALIFORNIA HAZARDOUS WASTE CODES: 214

THIS PRODUCT CONTAINS ONE OR MORE SUBSTANCES THAT ARE LISTED WITH THE STATE OF CALIFORNIA AS A HAZARDOUS WASTE.

CHEMICAL NAME CALIFORNIA HAZARDOUS WASTE

ETHYLACETATE TOXIC  
141-78-6 IGNITABLE

METHYL ALCOHOL 67-56-1	TOXIC IGNITABLE
ACETONE 67-64-1	IGNITABLE
TOLUENE 108-88-3	TOXIC IGNITABLE
METHYL ETHYL KETONE 78-93-3	TOXIC IGNITABLE
XYLENE 1330-20-7	TOXIC IGNITABLE
ETHYLBENZENE 100-41-4	TOXIC IGNITABLE

## 14. TRANSPORT INFORMATION



DOT:  
UN-NO.: UN1263  
PROPER SHIPPING NAME: PAINT RELATED MATERIAL  
HAZARD CLASS: 3  
PACKING GROUP: II  
DESCRIPTION: UN1263, PAINT RELATED MATERIAL, 3, PGII

TDG:

UN-NO.: UN1992  
PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.  
HAZARD CLASS: 3  
SUBSIDIARY CLASS: (6.1)  
PACKING GROUP: II

DESCRIPTION:  
UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

MEX:

UN-NO.: UN1992  
PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.  
HAZARD CLASS: 3  
SUBSIDIARY CLASS: 6.1  
PACKING GROUP: II

DESCRIPTION:  
UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

ICAO:

UN-NO.: UN1992  
PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

SUBSIDIARY CLASS: 6.1

PACKING GROUP: II

DESCRIPTION:

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

IATA:

UN-NO.: UN1992

PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

SUBSIDIARY CLASS: 6.1

PACKING GROUP: II

DESCRIPTION:

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

IMDG/IMO:

UN-NO.: UN1992

PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

SUBSIDIARY CLASS: 6.1

PACKING GROUP: II

EMS NO.: F-E, S-D

DESCRIPTION:

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II, FP -18C

RID:

UN-NO.: UN1992

PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

PACKING GROUP: II

CLASSIFICATION CODE: FT1

DESCRIPTION:

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

ADR/RID-LABELS: 6.1

ADR:

UN-NO.: UN1992

PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

PACKING GROUP: II

CLASSIFICATION CODE: FT1

DESCRIPTION:

UN1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHYL ALCOHOL), 3 (6.1), II

ADR/RID-LABELS: 6.1

ADN:

UN-NO.: UN1992

PROPER SHIPPING NAME: FLAMMABLE LIQUID, TOXIC, N.O.S.

HAZARD CLASS: 3

PACKING GROUP: II

CLASSIFICATION CODE: FT1

SPECIAL PROVISIONS: 274, 802

DESCRIPTION:

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHYL ACETATE, METHANOL),  
3 (6.1), II

HAZARD LABELS: 3 + 6.1

LIMITED QUANTITY: 1 L

VENTILATION: VE01, VE02

## 15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

TSCA: COMPLIES

DSL: ALL COMPONENTS ARE LISTED EITHER ON THE DSL OR NDSL.

TSCA - UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY

DSL/NDSL - CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

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	CAS NO	WEIGHT-%	SARA 313 - THRESHOLD VALUES %
METHYL ALCOHOL - 67-56-1	67-56-1	10 - 30	1.0
TOLUENE - 108-88-3	108-88-3	7 - 13	1.0
XYLENE - 1330-20-7	1330-20-7	5 - 10	1.0
ETHYLBENZENE - 100-41-4	100-41-4	1 - 5	0.1

SARA 311/312 HAZARD CATEGORIES:  
 ACUTE HEALTH HAZARD: YES  
 CHRONIC HEALTH HAZARD: YES  
 FIRE HAZARD: YES  
 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
TOLUENE 108-88-3	1000 LB	X	X	X
XYLENE 1330-20-7	100 LB			X
ETHYLBENZENE 100-41-4	1000 LB	X	X	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	EXTREMELY HAZARDOUS SUBSTANCES RQS	RQ
ETHYLACETATE 141-78-6			RQ: 5000 LB FINAL RQ RQ: 2270 KG FINAL RQ
METHYL ALCOHOL 67-56-1	5000 LB		RQ: 2270 KG FINAL RQ RQ: 5000 LB FINAL RQ
ACETONE 67-64-1	5000 LB		RQ: 2270 KG FINAL RQ RQ: 5000 LB FINAL RQ
TOLUENE 108-88-3	1000 LB		RQ: 1000 LB FINAL RQ RQ: 454 KG FINAL RQ
METHYL ETHYL KETONE 78-93-3	5000 LB		RQ: 5000 LB FINAL RQ RQ: 2270 KG FINAL RQ
XYLENE 1330-20-7	100 LB		RQ: 100 LB FINAL RQ RQ: 45.4 KG FINAL RQ
ETHYLBENZENE 100-41-4	1000 LB		RQ: 1000 LB FINAL RQ RQ: 454 KG FINAL RQ

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:  
 THIS PRODUCT CONTAINS THE FOLLOWING PROPOSITION 65 CHEMICALS.

CHEMICAL NAME	CALIFORNIA PROPOSITION 65
METHYL ALCOHOL - 67-56-1	DEVELOPMENTAL
TOLUENE - 108-88-3	DEVELOPMENTAL
ETHYLBENZENE - 100-41-4	CARCINOGEN



U.S. STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA	RHODE ISLAND	ILLINOIS
ETHYLACETATE 141-78-6	X	X	X	X	
METHYL ALCOHOL 67-56-1	X	X	X	X	X
ACETONE 67-64-1	X	X	X	X	
TOLUENE 108-88-3	X	X	X	X	X
METHYL ETHYL KETONE 78-93-3	X	X	X	X	X
XYLENE 1330-20-7	X	X	X	X	X
ETHYLBENZENE 100-41-4	X	X	X	X	X

INTERNATIONAL REGULATIONS:

MEXICO:

NATIONAL OCCUPATIONAL EXPOSURE LIMITS:

COMPONENT	CARCINOGEN STATUS	EXPOSURE LIMITS
ETHYLACETATE 141-78-6 (15 - 40)		MEXICO: TWA: 400 PPM  MEXICO: TWA: 1400 MG/M3
METHYL ALCOHOL 67-56-1 (10 - 30)		MEXICO: TWA: 200 PPM  MEXICO: TWA: 260 MG/M3  MEXICO: STEL: 250 PPM  MEXICO: STEL: 310 MG/M3
ACETONE 67-64-1 (10 - 30)		MEXICO: TWA: 1000 PPM  MEXICO: TWA: 2400 MG/M3  MEXICO: STEL: 1260 PPM  MEXICO: STEL: 3000 MG/M3
TOLUENE 108-88-3 (7 - 13)		MEXICO: TWA: 50 PPM

METHYL ETHYL KETONE  
78-93-3  
(7 - 13)

MEXICO:  
TWA: 188 MG/M3

MEXICO:  
TWA: 590 MG/M3

MEXICO:  
TWA: 200 PPM

MEXICO:  
STEL: 885 MG/M3

MEXICO:  
STEL: 300 PPM

XYLENE  
1330-20-7  
(5 - 10)

MEXICO:  
TWA: 100 PPM

MEXICO:  
TWA: 435 MG/M3

MEXICO:  
STEL: 150 PPM

MEXICO:  
STEL: 655 MG/M3

ETHYLBENZENE  
100-41-4  
(1 - 5)

MEXICO:  
TWA: 435 MG/M3

MEXICO:  
TWA: 100 PPM

MEXICO:  
STEL: 125 PPM

MEXICO:  
STEL: 545 MG/M3

MEXICO - OCCUPATIONAL EXPOSURE LIMITS - CARCINOGENS

CANADA:

WHMIS HAZARD CLASS:  
B2 - FLAMMABLE LIQUID  
D2A - VERY TOXIC MATERIALS

## 16. OTHER INFORMATION



NFPA:  
HEALTH HAZARDS 3  
FLAMMABILITY 3  
INSTABILITY 0  
PHYSICAL AND CHEMICAL HAZARDS

HMIS:  
HEALTH HAZARDS 3\*  
FLAMMABILITY 3  
PHYSICAL HAZARD 0  
PERSONAL PROTECTION X

CHRONIC HAZARD STAR LEGEND:  
\* = CHRONIC HEALTH HAZARD

PREPARED BY:

PRODUCT STEWARDSHIP  
23 BRITISH AMERICAN BLVD.  
LATHAM, NY 12110  
1-800-572-6501

REVISION DATE:

REVISION NOTE: NO INFORMATION AVAILABLE

DISCLAIMER:

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REVISION DATE: 08-NV-2013

**1. Identification**

**Product number** 0830  
**Product identifier** **Super Hil-Aire Fresh & Clean**  
**Revision date** 10-28-2014  
**Company information** HILLYARD INC  
 302 North 4th Street  
 St. Joseph, MO 64501 United States  
**Company phone** 816-383-8285  
**Version #** 02  
**Supersedes date** 10-10-2014  
**Recommended use** Cleaner  
**Recommended restrictions** None known.

**2. Hazard(s) identification**

**Physical hazards** Flammable aerosols Category 1  
 Gases under pressure Liquefied gas  
**Health hazards** Serious eye damage/eye irritation Category 2A  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
 Hazardous to the aquatic environment, long-term hazard 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. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**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. Avoid release to the environment. Wear eye/face protection.  
**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.  
**Storage** Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
**Disposal** Not available.

**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	%
Ethyl Alcohol		64-17-5	40 - 60
1,1-Difluoroethane		75-37-6	20 - 40
o-Phenylphenol		90-43-7	0.1 - 1

Chemical name	Common name and synonyms	CAS number	%
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportable levels			20 - 40

#: This substance has workplace exposure limit(s).

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** The full text for all R-phrases is displayed in Section 16 of the SDS.

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Headache. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
<b>General fire hazards</b>	Extremely flammable aerosol.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. 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 in a well-ventilated place. Refrigeration recommended. 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
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm

#### US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3 1000 ppm

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### 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. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear appropriate chemical resistant gloves.

**Skin protection**

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**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

Clear.

### Physical state

Gas.

### Form

Aerosol. Liquefied gas.

### Color

Light yellow.

<b>Odor</b>	Aromatic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	9.5 - 10.5 estimated estimated
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	135.34 °F (57.41 °C) estimated
<b>Flash point</b>	-58.0 °F (-50.0 °C) Propellant estimated
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	2.6 % estimated
<b>Flammability limit - upper (%)</b>	12.8 % estimated
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	>= 75 psig @70F estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	856.4 °F (458 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Specific gravity</b>	0.86 - 0.88 estimated estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Causes serious eye irritation.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Headache. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation.
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### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Super Hil-Aire Fresh & Clean (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	40120.6836 ml/kg estimated 33884.7344 mg/kg estimated
<i>Inhalation</i>		
LC50	Cat	171.3354 mg/l, 4.5 Hours estimated 87.6236 mg/l, 6 Hours estimated
	Mouse	159.3393 mg/l, 134 Minutes estimated 78.2353 mg/l, 4 Hours estimated 76.2293 mg/l, 24 Hours estimated
	Rat	20000 mg/m3, 4 Hours estimated 250.2502 mg/l/4h estimated 232.4994 mg/l, 4 Hours estimated 176.0007 %, 4 Hours estimated 102.9096 mg/l, 6 Hours estimated
<i>Oral</i>		
LD50	Guinea pig	11153.5498 mg/kg estimated
	Monkey	12036.2051 mg/kg estimated
	Mouse	21063.3574 ml/kg estimated 6920.8179 mg/kg estimated
	Rat	15647.0664 ml/kg estimated 12477.5332 mg/kg estimated
<i>Other</i>		
LD50	Mouse	12036.2051 mg/kg estimated
	Rat	8164.5591 mg/kg estimated
Components	Species	Test Results

1,1-Difluoroethane (CAS 75-37-6)

**Acute**

*Inhalation*

LC50 Rat 44 - 437500 %, 4 Hours

Ethyl Alcohol (CAS 64-17-5)

**Acute**

*Inhalation*

LC50 Cat 85.41 mg/l, 4.5 Hours  
43.68 mg/l, 6 Hours

Mouse > 60000 ppm  
79.43 mg/l, 134 Minutes

Rat > 115.9 mg/l, 4 Hours  
51.3 mg/l, 6 Hours

*Oral*

LD50 Monkey 6000 mg/kg

Mouse 10500 ml/kg

Rat 7800 ml/kg  
7060 mg/kg

*Other*

LD50 Mouse 6000 mg/kg

Rat 4070 mg/kg



Components	Species	Test Results
o-Phenylphenol (CAS 90-43-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
	Rat	> 2000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 949 mg/m <sup>3</sup> , 1f <1L: Consumer Commodity Hours
		> 36 mg/m <sup>3</sup> , 4 Hours
<i>Oral</i>		
LD50	Rat	> 2500 mg/kg
Sodium Nitrite (CAS 7632-00-0)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	180 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
o-Phenylphenol (CAS 90-43-7)	3 Not classifiable as to carcinogenicity to humans.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not listed.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not likely, due to the form of the product.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Product	Species	Test Results
Super Hil-Aire Fresh & Clean (CAS Mixture)		
<b>Aquatic</b>		
Algae	IC50	Algae 472.2222 mg/L, 72 Hours estimated
Crustacea	EC50	Daphnia 890.5405 mg/L, 48 Hours estimated
Fish	LC50	Fish 1649.4893 mg/L, 96 Hours estimated
Components	Species	Test Results
Ethyl Alcohol (CAS 64-17-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100.1 mg/l, 96 hours

Components	Species	Test Results
o-Phenylphenol (CAS 90-43-7)		
<b>Aquatic</b>		
Algae	IC50	Algae 0.85 mg/L, 72 Hours
Crustacea	EC50	Daphnia 1.75 mg/L, 48 Hours
		Water flea (Daphnia magna) 1 - 2.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 3.4 mg/l, 96 hours
Sodium Nitrite (CAS 7632-00-0)		
<b>Aquatic</b>		
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis) 16.14 - 26.61 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 0.15 - 0.25 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**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)**

1,1-Difluoroethane	0.75
Ethyl Alcohol	-0.31
o-Phenylphenol	3.09

**Mobility in soil** No data available.

**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** Consult authorities before disposal. 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 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** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

**DOT**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	None
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	153, N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.
<b>Packaging Exceptions</b>	LTD QTY

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

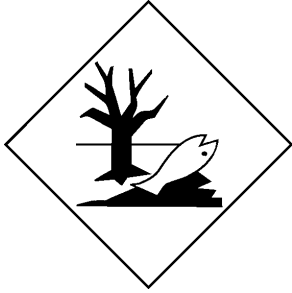
**DOT**



**IATA; IMDG**



Marine pollutant



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Nitrite (CAS 7632-00-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Table with 6 columns: Chemical name, CAS number, Reportable quantity, Threshold planning quantity, Threshold planning quantity, lower value, Threshold planning quantity, upper value. Row 1: Anhydrous Ammonia, 7664-41-7, 100, 500 lbs.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Table with 3 columns: Chemical name, CAS number, % by wt. Rows: o-Phenylphenol (90-43-7, 0.1 - 1), Sodium Nitrite (7632-00-0, 0.1 - 1), t-Butyl Alcohol (75-65-0, 0.1 - 1)

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)

1,1-Difluoroethane (CAS 75-37-6)

Safe Drinking Water Act (SDWA) Not regulated.

FIFRA Information FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No.706-69-1658, and is subject to certain labeling requirements under Federal pesticide law.

Hazard statement CAUTION!

US state regulations

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6)
Ethyl Alcohol (CAS 64-17-5)
o-Phenylphenol (CAS 90-43-7)

Sodium Nitrite (CAS 7632-00-0)

**US. New Jersey Worker and Community Right-to-Know Act**

1,1-Difluoroethane (CAS 75-37-6)

Ethyl Alcohol (CAS 64-17-5)

o-Phenylphenol (CAS 90-43-7)

Sodium Nitrite (CAS 7632-00-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ethyl Alcohol (CAS 64-17-5)

o-Phenylphenol (CAS 90-43-7)

Sodium Nitrite (CAS 7632-00-0)

**US. Rhode Island RTK**

1,1-Difluoroethane (CAS 75-37-6)

o-Phenylphenol (CAS 90-43-7)

Sodium Nitrite (CAS 7632-00-0)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

o-Phenylphenol (CAS 90-43-7)

Listed: August 4, 2000

**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

\*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** 10-10-2014

**Revision date** 10-28-2014

**Version #** 02

**Disclaimer** Plaze cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision Information** Product and Company Identification: Product and Company Identification

# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 12/11/2014

Revision date: 09/05/2017



SDSTSL

ENEU

Rev. B

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
Trade name : Throat Seal Liquid  
Chemical name : bis(2-propylheptyl) phthalate  
IUPAC name : bis(2-propylheptyl) phthalate  
EC no : 258-469-4  
CAS No : 53306-54-0  
REACH registration No : not available  
Product Code : 206994, 206995, 206996, 206997, 206998, 24C822, 24C823, 238049  
Formula : C<sub>28</sub>H<sub>46</sub>O<sub>4</sub>  
Synonyms : Bis(2-propylheptyl) phthalate / 1,2-Benzenedicarboxylic acid, 1,2-bis(2-propylheptyl) ester

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Anti-sticking agent

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Graco BVBA  
Industrieterrein Ounde Bunders  
Maasmechelen - Belgium  
T +32 89 770 700 - F +32 89 770 777  
[reach@graco.com](mailto:reach@graco.com)

#### 1.4. Emergency telephone number

Emergency number : 1- 703-741-5970 (Chemtrec)  
24/24

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards not contributing to the classification

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
bis(2-propylheptyl) phthalate	(CAS-No.) 53306-54-0 (EC-No.) 258-469-4 (REACH-no) not available	80 - 100

Full text of H-statements: see section 16

# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Wash contaminated clothing before reuse. Take off immediately all contaminated clothing. Wash with plenty of soap and water.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting unless directed to do so by medical personnel. Consult a doctor/medical service if you feel unwell.

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

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), water, dry chemical powder.
- Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : None known. Not flammable at ambient temperature and pressure.
- Explosion hazard : None known.
- Hazardous decomposition products in case of fire : Toxic gases and fumes may be released in a fire.

### 5.3. Advice for firefighters

- Precautionary measures fire : This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).
- Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Cool tanks/drums with water spray/remove them into safety. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Evacuate area.
- Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing.
- Emergency procedures : Eliminate all ignition sources if safe to do so. Evacuate personnel to a safe area.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.
- Emergency procedures : Evacuate area. Ventilate affected area.

### 6.2. Environmental precautions

Avoid release to the environment. Relevant water authorities should be notified of any large spillage to water course or drain.

### 6.3. Methods and material for containment and cleaning up

- For containment : In case of small spillages in closed waters, contain product with floating barriers or other equipment.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Remove from the water surface (e.g. skimming, sucking). Collect in closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Combustible liquid.

# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

Precautions for safe handling	: Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Keep container closed when not in use. Open and handle container with care. Ensure adequate ventilation.
Handling temperature	: > 60 °C
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Take care for general good hygiene and housekeeping.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store tightly closed in a dry, cool and well-ventilated place.
Incompatible products	: Oxidizing agent.
Storage temperature	: < 45 °C
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Throat Seal Liquid (53306-54-0)		
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Estonia	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Estonia	OEL STEL (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Lithuania	TPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	5 glycine unit/m <sup>3</sup>

### 8.2. Exposure controls

#### Personal protective equipment:

Protective goggles. Gloves.

#### Hand protection:

Wear suitable gloves tested to EN374. Neoprene. NBR (Nitrile rubber). (breakthrough time of > 240 minutes). Material thickness > 0.11 mm

#### Eye protection:

Safety glasses with side shields

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: Faint odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 252.5 - 253.4 °C @ 7 hPa
Flash point	: 220 °C (ASTM D92)
Auto-ignition temperature	: 345 °F
Decomposition temperature	: No data available



# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.00001 atm @ 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.9624 g/cm <sup>3</sup> @20°C
Solubility	: Soluble in organic solvents. Water: < 0.1 µg/l
Log Pow	: 10.6 - 10.8 @25°C
Viscosity, kinematic	: 127.86 cSt @20°C
Viscosity, dynamic	: No data available
Explosive properties	: not explosive.
Oxidising properties	: not oxidizing.
Explosive limits	: No data available

### 9.2. Other information

VOC content : not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

No hazardous decomposition products under suitable storage and usage conditions as prescribed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Throat Seal Liquid (53306-54-0)	
LD50 dermal rabbit	> 2000

Skin corrosion/irritation	: Not classified
Additional information	: (OECD 404)
Serious eye damage/irritation	: Not classified
Additional information	: OECD 405
Respiratory or skin sensitisation	: Not classified. (Results based on a similar product)
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

Throat Seal Liquid (53306-54-0)	
Viscosity, kinematic	127.86 mm <sup>2</sup> /s @20°C

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

Throat Seal Liquid (53306-54-0)	
Persistence and degradability	Readily biodegradable in water.

# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Throat Seal Liquid (53306-54-0)</b>	
Biodegradation	80 - 90 % 28d - OECD 301B

### 12.3. Bioaccumulative potential

<b>Throat Seal Liquid (53306-54-0)</b>	
BCF fish 1	< 14.4 Carp, 56d - OECD 305C
Log Pow	10.6 - 10.8 @25°C

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

<b>Throat Seal Liquid (53306-54-0)</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Throat Seal Liquid is not on the REACH Candidate List

# Throat Seal Liquid

## Safety Data Sheet

according to Regulation (EU) 2015/830

Throat Seal Liquid is not on the REACH Annex XIV List

VOC content : not available

### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on Turkish inventory of chemical  
Taiwan Chemical Substance Inventory

### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 1359)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out  
This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## SECTION 16: Other information

Indication of changes:

2.1. Classification of the substance or mixture. 2.2. Label elements. 3. Composition/information on ingredients. Regulation reference. According to Regulation (EU) 2015/830 (REACH Annex II).

Other information : 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. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. This SDS was prepared by Intertek. However, the information is provided without any warranty, expressed or implied regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. 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, Intertek does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

SDS EU (REACH Annex II)

*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*



# Material Safety Data Sheet

Revision Date 03-Jan-2014

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** 55561  
**Product name** Traffic Marking Paint - Black  
**Recommended Use** Coating

**Supplier** Lawson Products, Inc.  
 8770 W.Bryn Mawr Ave.- Suite 900  
 Chicago, IL 60631  
 1-866-529-7664

**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Extremely flammable. Contents under pressure. Harmful by inhalation.

**Aggravated Medical Conditions**  
 None Known.

**Principal Routes of Exposure**  
 Skin. Inhalation.

### Potential health effects

**Eyes** No adverse affects expected.

**Skin** No adverse affects expected.

**Inhalation** Harmful by inhalation. Narcosis. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage. Repeated or prolonged exposure may cause the following effects: Kidney damage. Lung damage. Liver damage. Cardiac abnormalities. Damage to blood . Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** May be harmful if swallowed.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Light Aliphatic Naptha Solvent	64742-89-8	10-30
Propane	74-98-6	10-30
N-Hexane	110-54-3	7-13
N-Butane	106-97-8	5-10

Isopropyl alcohol	67-63-0	1-5
PM Acetate	108-65-6	1-5
Mineral Spirits	64742-47-8	0.5-1.5
Carbon Black	1333-86-4	0.1-1
Ethyl benzene	100-41-4	0.1-1

## 4. FIRST AID MEASURES

**Eye contact** Remove to fresh air. Rinse thoroughly with plenty of water, also under the eyelids. Seek medical attention if irritation persists.

**Skin contact** Wash area thoroughly with soap and water. Remove and wash contaminated clothing before re-use.

**Ingestion** Call a physician or Poison Control Center immediately.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** -19  
**Flash point °F** -2  
**Method** Pensky-Martens C.C.

**Autoignition temperature °C** Product is not self-igniting  
**Autoignition temperature °F**

**Flammability Limits (% in Air)**  
**Upper** 10.9%  
**Lower** 1.2%

**Suitable extinguishing media**  
 Carbon dioxide (CO2). Water spray. Alcohol-resistant foam . Sand.

**Special protective equipment for firefighters**  
 As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Fire and Explosion Hazards**  
 Aerosol containers may vent, rupture or burst when heated to temperatures above 120°F. Vapors may form explosive mixture in air between upper and lower explosive limits which can be ignited by many sources, such as pilot lights, open flames, electrical motors and switches.

**Sensitivity to shock**  
 No information available.

**Sensitivity to static discharge**

Yes. Take precautionary measures against static discharges.

**6. ACCIDENTAL RELEASE MEASURES****Methods for cleaning up**

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Evacuate area of unprotected and unnecessary personnel. Ventilate area to maintain exposure below permissible exposure limits. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs.

**7. HANDLING AND STORAGE****Handling**

Do not spray on a naked flame or any other incandescent material. Do not smoke. Protect against electrostatic charges. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Observe pressurized container storage regulations. Consult with local authorities..

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Isopropyl alcohol	400 ppm 980 mg/m <sup>3</sup>	-	200 ppm	400 ppm
Propane	1000 ppm 1800 mg/m <sup>3</sup>	-	1000 ppm	-
PM Acetate	-	-	-	-
Ethyl benzene	100 ppm 435 mg/m <sup>3</sup>	-	20 ppm	-
N-Hexane	500 ppm 1800 mg/m <sup>3</sup>	-	50 ppm	-
Carbon Black	3.5 mg/m <sup>3</sup>	-	3 mg/m <sup>3</sup>	-
Light Aliphatic Naptha Solvent	-	-	-	-
Mineral Spirits	-	-	-	-
N-Butane	-	-	-	1000 ppm

**Ventilation and Environmental Controls**

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

**Hygiene measures**

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

**Respiratory protection**

None required if adequate ventilation is provided. Use NIOSH approved respirator if TLV limit is exceeded.

**Hand Protection**

Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

**Eye protection**

Tightly fitting safety goggles.

**Skin and body protection**

None necessary under normal conditions

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Aerosol
<b>Color</b>	Black
<b>Odor</b>	Aromatic
<b>Odor Threshold</b>	No information available
<b>pH</b>	No data available
<b>Specific Gravity</b>	0.77-0.85
<b>Vapor pressure</b>	40 PSI @ 70 F
<b>Density</b>	0.88 g/cm <sup>3</sup> @ 20°C (68°F)
<b>Vapor density</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Water solubility</b>	No data available
<b>VOC Content</b>	57.9%; 507.4 g/l; 4.23 lb/gl
<b>Solids content</b>	42.1%
<b>MIR value</b>	0.79
<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	-44
<b>Boiling point/range °F</b>	-47
<b>Melting point/range °C</b>	No data available
<b>Melting point/range °F</b>	No data available
<b>Flash point °C</b>	-19
<b>Flash point °F</b>	-2

**10. STABILITY AND REACTIVITY****Stability**

Stable under normal conditions.

**Conditions to avoid**

Do not store in temperatures above 120 degrees F.

**Incompatibility**

None known.

**Hazardous Decomposition Products**

None known.

**Polymerization**

Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION**

**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Isopropyl alcohol 67-63-0	4396 mg/kg	12800 mg/kg	16000 ppm
Propane 74-98-6	-	-	658 mg/L
PM Acetate 108-65-6	8532 mg/kg	5 g/kg	-
Ethyl benzene 100-41-4	3500 mg/kg	15354 mg/kg	17.2 mg/L
N-Hexane 110-54-3	-	3000 mg/kg	48000 ppm
Carbon Black 1333-86-4	-	-	-
Light Aliphatic Naptha Solvent 64742-89-8	-	3000 mg/kg	-
Mineral Spirits 64742-47-8	5000 mg/kg	2000 mg/kg	5.2 mg/L
N-Butane 106-97-8	-	-	658 g/m <sup>3</sup>

**Synergistic Products** None known

**Potential health effects**

**Sensitization** None known

**Chronic toxicity** None known

**Mutagenic effects** None known

**Teratogenic effects** None known

**Reproductive toxicity** None known

**Target Organ Effects** Reports have associated prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated occupational overexposure may affect the following: Kidney. Lungs. Liver. Heart. Blood.

**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Isopropyl alcohol	A4	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

PM Acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene	A3	Group 2B	Not Listed	Not Listed	Listed
N-Hexane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Black	A3	Group 2B	Not Listed	Not Listed	Listed
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Spirits	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**12. ECOLOGICAL INFORMATION**

Isopropyl alcohol

**Microtox Data**

*Photobacterium phosphoreum* EC50=35390 mg/L (5 min)

**Water Flea Data**

*Daphnia magna* EC50=13299 mg/L (48 h)

PM Acetate

**Water Flea Data**

*Daphnia magna* EC50>500 mg/L (48 h)

Ethyl benzene

**Microtox Data**

*Photobacterium phosphoreum* EC50=9.68 mg/L (30 min)

*Nitrosomonas* EC50=96 mg/L (24 h)

**Water Flea Data**

*Daphnia magna* EC501.8 - 2.4 mg/L (48 h)

**Aquatic toxicity** Harmful to aquatic organisms Do not let product enter drains.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Information**

Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate. Do not heat or cut empty containers with electric or gas torches . Please recycle empty container whenever possible.

**14. TRANSPORTATION INFORMATION**

**DOT**

Consumer commodity, ORM-D.

**TDG**

Consumer commodity, ORM-D.

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed
Ethyl benzene	Listed
N-Hexane	Listed

**State Regulations**

Product code **55561**

Product name **Traffic  
Marking Paint - Black**

<b>Chemical Name</b>	<b>New Jersey - RTK</b>	<b>Pennsylvania - RTK</b>	<b>California Prop. 65</b>
Isopropyl alcohol	Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
PM Acetate	Not Listed	Not Listed	Not Listed
Ethyl benzene	Listed	Listed	Carcinogen
N-Hexane	Not Listed	Listed	Not Listed
Carbon Black	Not Listed	Listed	Carcinogen
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed
Mineral Spirits	Not Listed	Not Listed	Not Listed
N-Butane	Not Listed	Listed	Not Listed

WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

**International Inventories**

<b>Chemical Name</b>	<b>EINECS</b>	<b>DSL</b>	<b>NDSL</b>	<b>TSCA</b>
Isopropyl alcohol	X	X	-	X
Propane	X	X	-	X
PM Acetate	X	X	-	X
Ethyl benzene	X	X	-	X
N-Hexane	X	X	-	X
Carbon Black	X	X	-	X
Light Aliphatic Naptha Solvent	X	X	-	X
Mineral Spirits	X	X	-	X
N-Butane	X	X	-	X

**CPR**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

**NFPA**

**Health - 1**  
**Flammability - 4**  
**Reactivity - 3**

**HMIS**

**Health - 1**  
**Flammability - 4**  
**Physical Hazard - 3**

**Prepared By**

V. Shargorodsky, Regulatory Affairs  
Engineer

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.



**TURTLE WAX, INC.**  
**2250 W. Pinehurst Blvd., STE 150**  
**Addison, IL 60101**

## **SAFETY DATA SHEET**

### **1. Product and Company Identification**

#### **1.1 Product Identifier**

Product Name: Turtle Wax Car Wash  
Product Code (SKU): T-148R (50152), T-149R (50154), T149RC (50155),  
T-47R1 (50346), T-47R1C (50347)

#### **1.2 Relevant Identified Uses Of The Substance**

Product Use: Motor Vehicle Wash

#### **1.3 Details of the Supplier of the SDS**

Company Name: Turtle Wax, Inc.  
Street Address: 2250 W. Pinehurst Blvd., Suite 150  
City, State, Zip Code: Addison, IL 60101

#### **1.4 Emergency Telephone Numbers**

Phone Number: 1(630)455-3700  
Fax Number: 1(630)455-3868  
Transportation: 1(800)424-9300 (CHEMTREC)  
Medical Assistance: Call your local Poison Control Center

### **2. Hazard Identification:**

#### **2.1 Classification of the Substance or Mixture**

Hazard Classification: Mildly irritating to eyes 2B

#### **2.2 Label Elements**

Pictogram: not required

Signal Word: Warning

Hazard Statement: Causes eye irritation

Precautionary Statement: Wash hands thoroughly after handling. If in eyes: rinse thoroughly with water for 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.

#### **2.3 Other Hazards**

Description of additional HNOC: none

### **3. Information on Ingredients:**

**3.1 Substance** not applicable

#### **3.2 Mixture Component**

<u>Component</u>	<u>CAS Number</u>	<u>Concentration (wt%)</u>
Water	7732-18-5	>90%



Sodium Dodecylbenzene Sulfonate	25155-30-0	1-5%
Sodium Lauryl Sulfate	151-21-3	<1.0%
Cocamidopropyl Betaine	61789-40-0	<1.0%

#### 4. **First Aid Measures:**

##### 4.1 **Description of First Aid Measures**

**Inhalation:** Remove to fresh air and promote deep breathing. Get medical attention if effects persist.

**Skin:** In case of skin contact, wash thoroughly with soap and water. If irritation persists, get medical attention.

**Eyes:** In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Give water to drink if conscious. Get medical attention if effects persist.

##### 4.2 **Most important symptoms and effects – acute and chronic**

**Inhalation:** May cause respiratory tract irritation.

**Skin:** May cause skin irritation. May cause drying, cracking, or mild dermatitis.

**Eyes:** May cause temporary eye irritation.

**Ingestion:** May cause stomach distress, nausea, and vomiting.

##### 4.3 **Indication of any immediate medical attention and special treatment**

Symptoms may not appear immediately. Seek medical attention promptly if effects persist and you feel unwell.

#### 5. **Fire Fighting Measures:**

##### 5.1 **Extinguishing media**

Water spray, carbon dioxide, dry chemical, and alcohol foam

##### 5.2 **Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, and hydrocarbons

##### 5.3 **Advice for Fire Fighters**

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). See Section 8 for personal protection. Classified as a Combustible liquid – NFPA 30 (III-A).

#### 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.

##### 6.2 **Methods and materials for containment and clean up**

**For containment:** Contain and absorb spill with inert material. Place in suitable container for disposal. Use personal protective equipment (PPE).

**For clean up:** Take up material and place in a suitable container. Provide adequate ventilation. Spilled material may be slippery.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not swallow. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

### 7.2 Conditions for safe storage including incompatibilities

Keep out of reach of children. Keep container tightly closed. Store in a well ventilated place. Keep from freezing and do not store above 49°C (120°F).

### 7.3 Specific end uses

**Shelf Life:** Shelf life is considered to be 7 – 10 years when properly stored and kept closed.

## 8. Exposure Control/Personal Protection:

### 8.1 Control parameters

<u>Exposure Limits</u> <u>8 hr TWA:</u>	<u>(OSHA PEL)</u>	<u>(ACGIH TWA)</u>
Sodium Dodecylbenzene Sulfonate	not applicable	not applicable
Sodium Lauryl Sulfate	not applicable	not applicable
Cocamidopropyl Betaine	not applicable	not applicable

### 8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

**Hand Protection Equipment:** Wear chemical resistant gloves and clothing to prevent skin contact.

**Eye Protection Equipment:** Wear safety glasses or splash goggles to prevent eye contact.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiration/Ventilation Protection Requirements:** Provide good ventilation.

**Ingestion Protection Requirements:** Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

## 9. Physical And Chemical Properties:

### 9.1 Information of basic chemical and physical properties

<b>Physical Form:</b>	viscous liquid
<b>Color:</b>	pale clear green
<b>Odor:</b>	citrus lemon
<b>Odor Threshold:</b>	not available
<b>pH:</b>	8.2
<b>Melting Point/Freeze Point:</b>	0°C (32°F) – Based on Water

<b>Initial Boiling Point:</b>	100°C (212°F) – Based on Water
<b>Flash Point (Seta Closed Cup):</b>	>93°C (200°F)
<b>Flammability Limits:</b>	<b>Upper:</b> not available <b>Lower:</b> not available
<b>Evaporation Rate:</b>	not available
<b>Flammability Solid/Gas:</b>	not applicable
<b>Vapor Pressure:</b>	not available
<b>Vapor Density:</b>	not available
<b>Specific Gravity:</b>	1.009
<b>Solubility in Water:</b>	soluble
<b>Auto Ignition Temperature:</b>	not available
<b>Partition coefficient (n/octonol/water):</b>	not available
<b>Viscosity:</b>	very thin (water like)

## 9. 2 Other information

<b>% NVM by Weight:</b>	2.3%
<b>% VOC Content (California):</b>	0.0%

## 10. Stability and Reactivity:

### 10.1 Reactivity

Does not react under normal conditions

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Does not react under normal conditions

### 10.4 Conditions to avoid

Heat and incompatible materials

### 10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, CO and hydrocarbons

## 11. Toxicological Information:

### 11.1 Information on Toxicological effects

#### Turtle Wax Car Wash

LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg
LC50 – Inhalation Rat	>20 mg/L (4 hr)

#### Sodium Dodecylbenzene Sulfonate (25155-30-0)

LD50 – Oral Rat	>2000 mg/Kg
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#### Sodium Lauryl Sulfate (151-21-3)

LD50 – Oral Rat	1288 mg/Kg
LC50 – Inhalation Rat	>3900 mg/m <sup>3</sup> (1hr)

Cocamidopropyl Betaine (61789-40-0)  
LD50 – Oral Rat 4900 mg/Kg

Skin corrosion/irritation	Based on available data, classification data are not met
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Based on available data, classification data are not met
Germ cell mutagenicity	Based on available data, classification data are not met
Carcinogenicity	Based on available data, classification data are not met
Reproductive toxicity	Based on available data, classification data are not met
Specific target organs – single exposure	Based on available data, classification data are not met
Specific target organs – repeated exposure	Based on available data, classification data are not met
Aspiration hazard	Based on available data, classification data are not met
Symptoms/injuries after inhalation	May cause respiratory tract irritation
Symptoms/injuries after skin contact	May cause skin irritation. May cause drying, cracking, or mild dermatitis.
Symptoms/injuries after eye contact	May cause temporary eye irritation.
Symptoms/injuries after ingestion	May cause stomach distress, nausea, and vomiting.

## **12. Ecological Information:**

### **12.1 Toxicity**

Not recommended for release into aquatic systems without treatment

### **12.2 Persistence and degradability**

Not established

### **12.3 Bioaccumulative potential**

Not established

### **12.4 Mobility in soil**

Not established

### **12.5 Other adverse effects**

None known

## **13. Disposal Considerations:**

### **13.1 Waste treatment methods**

**RCRA Hazardous Waste:**

Not regulated as a hazardous waste

**Waste Disposal Method:**

Dispose of in accordance with local, state and federal regulations

**Waste Disposal Vessel:**

Plastic or metal drums

## **14. Transportation Information:**

### **14.1 UN number**

None - not regulated as a hazardous material

### **14.2 UN Proper shipping name**

None

### **14.3 Transport Hazard class**

Not applicable

**14.4 Packaging group**

Not applicable

**14.5 Marine Pollutant**

No

**14.6 Transportation in Bulk**

Not applicable

**14.7 Special precautions**

None

**15. Regulatory Information:**

**15.1 US Federal Regulations**

**TSCA Status:** All ingredients are commercially available and listed by the manufacturer under TSCA.

**15.2 Foreign Regulations**

**Canadian Status:** All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

**European Union:** All materials contained in this product are listed on EINECS.

**AICS:** All materials are registered for AICS (Australia)

**15.3 State Regulations**

**State Regulatory Information:**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

**California Prop 65:**

<u>CAS Number</u>	<u>Concentration</u>	<u>State Code</u>
None		

**15.4 HMIS & NFPA Classifications**

HMIS Classification:	Health	1
	Flammability	1
	Reactivity	0

NFPA Classification:	Health	1
	Flammability	1
	Reactivity	0

**16. Other Information:**

<b>Reason For Issue</b>	Address Update
<b>Prepared By</b>	James Heidel
<b>Preparer's Title</b>	Technical Director, R&D
<b>Administrator</b>	Jean Mayszak - Technical Compliance Manager, R&D
<b>Approval Date</b>	February 1, 2017
<b>Supersedes Date</b>	March 6, 2015
<b>Revision Number</b>	A – 5

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their own particular use.



**TURTLE WAX, INC.**  
**2250 W. Pinehurst Blvd., STE 150**  
**Addison, IL 60101**

## **SAFETY DATA SHEET**

### **1. Product and Company Identification**

#### **1.1 Product Identifier**

Product Name: Turtle Wax Oxy Power Out! Carpet Cleaner  
Product Code (SKU): T244R1 (50209), T244R1S (50210), T244RC (50211)

#### **1.2 Relevant Identified Uses Of The Substance**

Product Use: Carpet & Upholstery Cleaner (Aerosol)

#### **1.3 Details of the Supplier of the SDS**

Company Name: Turtle Wax, Inc.  
Street Address: 2250 W. Pinehurst Blvd., Suite 150  
City, State, Zip Code: Addison, IL 60101

#### **1.4 Emergency Telephone Numbers**

Phone Number: 1(630)455-3700  
Fax Number: 1(630)455-3868  
Transportation: 1(800)424-9300 (CHEMTREC)  
Medical Assistance: Call your local Poison Control Center

### **2. Hazard Identification:**

#### **2.1 Classification of the Substance or Mixture**

Hazard Classification: Gas Under Pressure – Liquefied Gas  
Acute Toxic 4 (Inhalation)  
Skin Irritation 2  
Eye Irritation 2B

#### **2.2 Label Elements**



Pictogram:

Signal Word: Warning

Hazard Statement: Contains gas under pressure; May explode if heated.  
Harmful if inhaled. Causes skin and eye irritation.

Precautionary Statement: Keep away from heat, sparks, hot surfaces or open flames.  
Do not smoke or spray near open flame or source of ignition. Pressurized container: Do not puncture or incinerate. Avoid breathing fumes, gas, or vapors. Use in well ventilated area. Wash hands thoroughly after use. Remove contaminated clothing and laundry before re-use. If in eyes, rinse thoroughly with water for 15 minutes. Remove contact lenses if possible. If eye or skin irritation

persists, seek medical attention. Do not store in direct sunlight or at temperatures above 50°C (122°F). Store in a well ventilated place.

### 2.3 Other Hazards

Description of additional HNOC: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

## 3. Information on Ingredients:

3.1 Substance not applicable

### 3.2 Mixture

<u>Component</u>	<u>CAS Number</u>	<u>Concentration (wt%)</u>
Water	7732-18-5	>85%
Propane	74-98-6	1 – 3%
Isobutane	75-28-5	1 – 3%
Sodium Lauroyl Sarcosinate	137-16-6	1 – 5%
Lauryl Amine Oxide	1643-20-5	0.5 – 1.5%
Sodium Lauryl Sulfate	151-21-3	1-3%

## 4. First Aid Measures:

### 4.1 Description of First Aid Measures

**Inhalation:** Remove to fresh air and promote deep breathing. Get medical attention if effects persist.

**Skin:** In case of skin contact, wash thoroughly with soap and water. If irritation persists, get medical attention.

**Eyes:** In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

**Ingestion:** If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Give water to drink if conscious. Get medical attention if effects persist.

### 4.2 Most important symptoms and effects – acute and chronic

**Inhalation:** May cause respiratory tract irritation.

**Skin:** May cause skin irritation. May cause drying, cracking, or mild dermatitis.

**Eyes:** May cause temporary eye irritation. Symptoms may include excess blinking and tearing.

**Ingestion:** May cause stomach distress, nausea, and vomiting.

### 4.3 Indication of any immediate medical attention and special treatment

Symptoms may not appear immediately. Seek medical attention if effects persist and you feel unwell.

## 5. Fire Fighting Measures:

### 5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical, and alcohol foam

### 5.2 Special hazards arising from the substance or mixture

CO<sub>2</sub>, CO, and hydrocarbons



### 5.3 Advice for Fire Fighters

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). See Section 8 for personal protection.

## 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.

### 6.2 Methods and materials for containment and clean up

**For containment:** Contain and absorb spill with inert material. Place in suitable container for disposal. Spilled material may be slippery.

**For clean up:** Take up material and place in a suitable container. Provide adequate ventilation. Spilled material may be slippery.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not swallow. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

### 7.2 Conditions for safe storage including incompatibilities

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

### 7.3 Specific end uses

**Shelf Life:** Shelf life is considered to be 7 – 10 years when properly stored. Aerosol products have been known to last much longer in storage.

## 8. Exposure Control/Personal Protection:

### 8.1 Control parameters

<u>Exposure Limits</u>	<u>8 hr TWA:</u>	<u>(OSHA PEL)</u>	<u>(ACGIH TWA)</u>
Propane		1000 ppm	1000 ppm
Isobutane		not available	1000 ppm
Sodium Lauroyl Sarcosinate		not applicable	not applicable
Laurylamineoxide		not applicable	not applicable
Sodium Lauryl sulfate		not applicable	not applicable

### 8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

**Hand Protection Equipment:** Wear chemical resistant gloves and clothing to prevent skin contact.

**Eye Protection Equipment:** Wear safety glasses or splash goggles to prevent eye contact.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiration/Ventilation Protection Requirements:** Provide good ventilation.

**Ingestion Protection Requirements:** Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

## 9. Physical And Chemical Properties:

### 9.1 Information of basic chemical and physical properties

<b>Physical Form:</b>	Gas/Pressurized Liquid
<b>Color:</b>	Clear Thin Liquid (Dispensed as white foam)
<b>Odor:</b>	Fresh Lavender
<b>Odor Threshold:</b>	not available
<b>pH:</b>	9.8 (liquid phase)
<b>Melting Point/Freeze Point:</b>	0°C (32°F) – Based on Water (liquid phase)
<b>Initial Boiling Point:</b>	100°C (212°F) – Based on Water (liquid phase)
<b>Flash Point (Seta Closed Cup):</b>	not available
<b>Flammability Limits:</b>	<b>Explosive Limits:</b> <b>Upper:</b> not available <b>Lower:</b> not available
<b>Evaporation Rate:</b>	not available
<b>Flammability Solid/Gas:</b>	not applicable
<b>Vapor Pressure:</b>	not available
<b>Vapor Density:</b>	not available
<b>Specific Gravity:</b>	1.000 (liquid phase)
<b>Solubility in Water:</b>	Soluble
<b>Auto Ignition Temperature:</b>	not available
<b>Partition coefficient (n/octonol/water):</b>	not available
<b>Viscosity:</b>	Water Thin (liquid phase)

### 9.2 Other information

<b>% NVM by Weight:</b>	5.1%
<b>% VOC Content (California):</b>	4.5%

## 10. Stability and Reactivity:

### 10.1 Reactivity

Does not react under normal conditions

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Does not react under normal conditions

### 10.4 Conditions to avoid

Heat and incompatible materials

### 10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, CO and hydrocarbons

## 11. Toxicological Information:

### 11.1 Information on Toxicological effects

#### Turtle Wax Oxy Power Out Carpet Cleaner

LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg
LC50 – Inhalation Rat	>3.81 mg/L (4 hr)

#### Isobutane (75-28-5)

LD50 – Inhalation Rat	658 mg/L (4hr)
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#### Propane (76-98-6)

LD50 – Inhalation Rat	658 mg/L(4hr)
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#### Sodium Lauroyl Sarcosinate (137-16-6)

LD50 – Oral Rat	>5000 mg/Kg
LC50 – Inhalation Rat	0.05-0.5 mg/L (4 hr)

#### Laurylamineoxide (1643-20-5)

LD50 – Oral Rat	2700 mg/Kg
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#### Sodium Lauryl Sulfate (151-21-3)

LD50 – Oral Rat	1288 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg

Skin corrosion/irritation	Can cause mild skin irritation
Serious eye damage/irritation	Can cause mild eye irritation
Respiratory or skin sensitization	Based on available data, classification data are not met
Germ cell mutagenicity	Based on available data, classification data are not met
Carcinogenicity	Based on available data, classification data are not met
Reproductive toxicity	Based on available data, classification data are not met
Specific target organs – single exposure	Based on available data, classification data are not met
Specific target organs – repeated exposure	Based on available data, classification data are not met
Aspiration hazard	Based on available data, classification data are not met
Symptoms/injuries after inhalation	Harmful if inhaled. May cause respiratory tract irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Symptoms/injuries after skin contact	May cause skin irritation. May cause drying, cracking, or mild dermatitis.
Symptoms/injuries after eye contact	May cause temporary eye irritation. Symptoms may include discomfort, excess blinking, and tearing.
Symptoms/injuries after ingestion	May be harmful if swallowed. May cause stomach distress, nausea, and vomiting.

## 12. Ecological Information:

### 12.1 Toxicity

Not recommended for release into aquatic systems without treatment

### 12.2 Persistence and degradability

Not established

### **12.3 Bioaccumulative potential**

Not established

### **12.4 Mobility in soil**

Not established

### **12.5 Other adverse effects**

None known

## **13. Disposal Considerations:**

### **13.1 Waste treatment methods**

#### **RCRA Hazardous Waste:**

Regulated as a hazardous waste (D-001 Ignitable).

#### **Waste Disposal Method:**

Dispose of in accordance with local, state and federal regulations

#### **Waste Disposal Vessel:**

Metal drums are recommended. Dispose of un-used aerosol cans through a registered aerosol recycler.

## **14. Transportation Information:**

### **14.1 UN number**

1950

### **14.2 UN Proper shipping name**

Aerosol - Nonflammable

### **14.3 Transport Hazard class**

2.2 Nonflammable Gas

### **14.4 Packaging group**

Not applicable

### **14.5 Marine Pollutant**

No

### **14.6 Transportation in Bulk**

Not applicable

### **14.7 Special precautions**

NFPA (34b) Level 1 Aerosol

## **15. Regulatory Information:**

### **15.1 US Federal Regulations**

**TSCA Status:** All ingredients are commercially available and listed by the manufacturer under TSCA.

### **15.2 Foreign Regulations**

**Canadian Status:** All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

**European Union:** All materials contained in this product are listed on EINECS.

**AICS:** All materials are registered for AICS (Australia)

### 15.3 State Regulations

#### State Regulatory Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

#### California Prop 65:

<u>CAS Number</u>	<u>Concentration</u>	<u>State Code</u>
None		

### 15.4 HMIS & NFPA Classifications

HMIS Classification:	Health	2
	Flammability	2
	Reactivity	0
NFPA Classification:	Health	2
	Flammability	2
	Reactivity	0

### 16. Other Information:

<b>Reason For Issue</b>	Address Update
<b>Prepared By</b>	James Heidel
<b>Preparer's Title</b>	Technical Director, R&D
<b>SDS Administrator</b>	Jean Mayszak - Technical Compliance Manager, R&D
<b>Approval Date</b>	February 2, 2017
<b>Supersedes Date</b>	February 5, 2015
<b>Revision Number</b>	A – 7

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their own particular use.




# Safety Data Sheet

## 1 - Identification

<b>Product Name:</b> WD-40 Multi-Use Product Aerosol <i>NOT FOR SALE IN CALIFORNIA</i>  <b>Product Use:</b> Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion  <b>Restrictions on Use:</b> None identified  <b>SDS Date Of Preparation:</b> 09/01/2014	<b>Manufacturer:</b> WD-40 Company <b>Address:</b> 1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California, USA 92138 -0607  <b>Telephone:</b> <b>Emergency only:</b> 1-888-324-7596 (PROSAR) <b>Information:</b> 1-888-324-7596 <b>Chemical Spills:</b> 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)
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## 2 – Hazards Identification

<b>Hazcom 2012/GHS Classification:</b> Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas Aspiration Toxicity Category 1  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.  <b>Label Elements:</b>   <b>DANGER!</b> Extremely Flammable Aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. <b>Prevention</b> 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. <b>Response</b> IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. <b>Storage</b> Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. <b>Disposal</b> Dispose of contents and container in accordance with local and national regulations.
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## 3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
Aliphatic Hydrocarbon	64742-47-8	45-50	Flammable Liquid Category 3

			Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<35	Not Hazardous
LVP Aliphatic Hydrocarbon	64742-47-8	12-18	Aspiration Toxicity Category 1
Carbon Dioxide	124-38-9	2-3	Simple Asphyxiant Gas Under Pressure, Compressed Gas

Note: The 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:** May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. 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:** 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
Aliphatic Hydrocarbon	1200 mg/m <sup>3</sup> TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL ACGIH TLV 5 mg/m <sup>3</sup> TWA OSHA PEL
LVP Aliphatic Hydrocarbon	1200 mg/m <sup>3</sup> TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)

### 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:	122°F (49°C) Tag Closed Cup (concentrate)	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:	412 grams/liter (49.5%)	Pour Point:	-63°C (-81.4°F) ASTM D-97

## 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 dermatitis.

**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:

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 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:** Component 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 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.

**VOC Regulations:** This product complies with the consumer product VOC limits of the US EPA and states adopting the OTC VOC rules but does not comply with CARB.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product does not contain chemicals regulated under California Proposition 65.

**Canadian Environmental Protection Act:** One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

**Canadian WHMIS Classification:** Class A (Compressed gas), Class B-5 (Flammable Aerosol)  
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**16 – Other Information:**

**HMIS Hazard Rating:**

**Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)**

Revision Date: September 1, 2015

Supersedes: July 20, 2014

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

APPROVED By: I. Kowalski

Regulatory Affairs Dept.



# Material Safety Data Sheet

Issuing Date 01-Jul-2011

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Yellow W/B Traffic Paint

**Product Code(s)** 7003PLUS

**Recommended Use** Traffic paint

**Product Technology** W/B

### Supplier Address

Ennis Paint Inc.  
5910 North Central Expressway  
Suite 1050  
Dallas TX 75206  
T: 800.331.8118  
800.331.8118 (For Technical Inquiries)

**Emergency Telephone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed  
Causes central nervous system depression.

May cause skin, eye, and respiratory tract irritation

May adversely affect liver and kidney.

Cancer hazard

WARNING! This product contains a chemical known in the State of California to cause cancer.

**Appearance** Yellow

**Physical State** Emulsion.

**Odor** Slight, Ammonia

### Potential Health Effects

**Principle Routes of Exposure** Eye contact. Skin contact. Inhalation.

### **Acute Toxicity**

**Eyes**

May cause irritation.

**Skin**

Harmful if absorbed through skin. May cause irritation.

**Inhalation**

Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

**Ingestion**

Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as listed under "Inhalation".

### **Chronic Effects**

This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

<b>Aggravated Medical Conditions</b>	Respiratory disorders. Lungs. Skin disorders. Liver disorders. Kidney disorders. Central nervous system. Pre-existing eye disorders.
<b>Interactions with Other Chemicals</b>	Use of alcoholic beverages may enhance toxic effects.
<b>Environmental Hazard</b>	See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Titanium dioxide	13463-67-7	7-13
Methyl alcohol	67-56-1	3-7
2-Butoxyethanol	111-76-2	1-5
Ammonium hydroxide	1336-21-6	1-5
Quartz	14808-60-7	0.1-1
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	0.1-1

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	> 201°F / 93.8°C
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b><u>NFPA</u></b>	<b>Health Hazard</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b><u>HMIS</u></b>	<b>Health Hazard</b> 2*	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Use personal protective equipment. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup> STEL: 250 ppm
Methyl alcohol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

#### Eye/Face Protection Skin and Body Protection Respiratory Protection

Tightly fitting safety goggles.  
Protective gloves.  
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.

### Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellow.	<b>Odor</b>	Slight, Ammonia.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Emulsion
<b>pH</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Flash Point</b>	> 201°F / 93.8°C	<b>Boiling Point/Boiling Range</b>	No information available
<b>Decomposition Temperature</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Melting Point/Range</b>	No information available	<b>Solubility</b>	No information available.
<b>Flammability Limits in Air</b>	No information available.	<b>Vapor Pressure</b>	No data available
<b>Specific Gravity</b>	1.55-1.75	<b>EPA VOC (g/l)</b>	<100
<b>Evaporation Rate</b>	No information available		
<b>Vapor Density</b>	No data available		

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	None known based on information supplied.
<b>Conditions to Avoid</b>	Dust formation.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx).
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed heavy paraffinic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
Quartz	500 mg/kg ( Rat )		
Titanium dioxide	> 10000 mg/kg ( Rat )		> 6820 mg/m <sup>3</sup>
Ammonium hydroxide	= 350 mg/kg ( Rat )		
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg ( Rabbit )	83.2 mg/L ( Rat ) 4 h 64000 ppm ( Rat ) 4 h
Methyl alcohol	= 470 mg/kg ( Rat )	220 mg/kg ( Rabbit ) 2270 mg/kg ( Rat )	= 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h

### Chronic Toxicity

#### Chronic Toxicity

This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
2-Butoxyethanol	A3	Group 3		
Quartz	A2	Group 1	Known	X
Petroleum distillates, solvent dewaxed heavy paraffinic	A2	Group 1		X

#### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

#### IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

#### NTP: (National Toxicity Program)

Known - Known Carcinogen

#### OSHA: (Occupational Safety & Health Administration)

X - Present

#### Target Organ Effects

Central nervous system (CNS). Kidney. Liver. Respiratory system.



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol	-	LC50 96 h: 13500 - 17600 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-
2-Butoxyethanol		LC50 96 h: = 1490 mg/L static (Lepomis macrochirus) LC50 96 h: = 2950 mg/L (Lepomis macrochirus)		EC50 24 h: 1698 - 1940 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)
Ammonium hydroxide		LC50 96 h: = 8.2 mg/L (Pimephales promelas)		EC50 48 h: = 0.66 mg/L (Daphnia pulex) EC50 48 h: = 0.66 mg/L (water flea)
Petroleum distillates, solvent dewaxed heavy paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

Chemical Name	Log Pow
Methyl alcohol	-0.77
2-Butoxyethanol	0.81

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated Packaging

Do not re-use empty containers.

### US EPA Waste Number

U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream: F039		U154

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic Ignitable
Ammonium hydroxide	Toxic Corrosive

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**Marine Pollutant** Product is a marine pollutant according to the criteria set by IMDG/IMO

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA** Complies

### Legend

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

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

### U.S. Federal Regulations

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	CAS-No	Weight %	SARA 313 - Threshold Values %
Butoxyethanol	111-76-2	1-10	1.0
Ammonium hydroxide	1336-21-6	1.4403	1.0
Methyl alcohol	67-56-1	4	1.0

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### 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
Ammonium hydroxide	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	Extremely Hazardous Substances RQs	RQ
Ammonium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	X	X	X	-	X
Titanium dioxide	X	X	X	-	X
Ammonium hydroxide	X	X	X		
Methyl alcohol	X	X	X	X	X

### International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
White mineral oil		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>
Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m <sup>3</sup>
Solvent Blend		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 360 mg/m <sup>3</sup>

### Canada

This 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 CPR.

#### WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



### Canadian National Pollutant Release Inventory (NPRI)

Chemical Name	NPRI
Methyl alcohol	X

#### Legend

X - Listed

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 01-Jul-2011

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this MSDS 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 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.

**End of Safety Data Sheet**