

# SDS Binder

1/14/2025

Prepared for:

US LBM Holdings LLC

Meeks West



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# SAFETY DATA SHEET



## ACETONE

### Section 1. Identification

<b>GHS product identifier</b>	: ACETONE
<b>Product code</b>	: 0601
<b>Chemical name</b>	: acetone
<b>Other means of identification</b>	: propan-2-one; propanone; 2-Propanone; Ketone propane; Dimethyl ketone; dimethyl ketone; 2-propanone; $\beta$ -ketonepropane; acetonum; dimethylketone; methyl ketone; propanone; pyroacetic acid; pyroacetic ether; methyl ketone; Acetone (I); 2-Propanone (I); Cetona; Pyroacetic ether
<b>Product type</b>	: Liquid.

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

Industrial applications.

<b>Supplier's details</b>	: NORTH AMERICAN COMPOSITES 300 Apollo Drive Lino Lakes, MN 55014-3018 651.766.6892
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<b>Emergency telephone number (with hours of operation)</b>	: CHEMTREC 24-Hour Emergency Telephone US and Canada 800.424.9300 Outside US and Canada +1 703.741.5970
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### Section 2. Hazards identification

<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### GHS label elements

**Hazard pictograms**



<b>Signal word</b>	: Danger
<b>Hazard statements</b>	: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

#### Precautionary statements

**Prevention**

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
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## Section 2. Hazards identification

- Response** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Store in a well-ventilated place. Keep cool. Store containers in a safe place.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Chemical name** : acetone
- Other means of identification** : propan-2-one; propanone; 2-Propanone; Ketone propane; Dimethyl ketone; dimethyl ketone; 2-propanone;  $\beta$ -ketonepropane; acetonum; dimethylketone; methyl ketone; propanone; pyroacetic acid; pyroacetic ether; methyl ketone; Acetone (I); 2-Propanone (I); Cetona; Pyroacetic ether

### CAS number/other identifiers

- CAS number** : 67-64-1

Ingredient name	%	CAS number
acetone	> 99.5	67-64-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Any concentration shown as exact is based on formula.

**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.**

**VOC content is listed in Section 9.**

**Environmental composition is shown in Section 15.**

## 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. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## 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** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- 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. 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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

## Section 5. Fire-fighting measures

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. 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. Dispose of via a licensed waste disposal contractor. Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Wear appropriate respirator when ventilation is inadequate. Wear eye/face protection.
- 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. 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. Wear appropriate respiratory protection. Wear protective clothing and eye or face protection:

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**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. 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. See Section 10 for incompatible materials before handling or use. Store containers in a safe place.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
acetone	<p><b>ACGIH TLV (United States, 3/2017).</b>            TWA: 250 ppm 8 hours.            STEL: 500 ppm 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 750 ppm 8 hours.            TWA: 1800 mg/m<sup>3</sup> 8 hours.            STEL: 1000 ppm 15 minutes.            STEL: 2400 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2016).</b>            TWA: 250 ppm 10 hours.            TWA: 590 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 6/2016).</b>            TWA: 1000 ppm 8 hours.            TWA: 2400 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.

## 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** : Colorless.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : -94.7°C (-138.5°F)
- Boiling point** : 56.05°C (132.9°F)
- Flash point** : Closed cup: -20°C (-4°F)
- Evaporation rate** : 6.06 (butyl acetate = 1)
- Lower and upper explosive (flammable) limits** : Lower: 2.2%  
Upper: 13%
- Vapor pressure** : 24 kPa (180.01 mm Hg) [room temperature]
- Vapor density** : 2 [Air = 1]
- Relative density** : 0.8
- Solubility** : Not available.
- Solubility in water** : Not available.

## Section 9. Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	: -0.23	
<b>Auto-ignition temperature</b>	: 465°C (869°F)	
<b>Viscosity</b>	: Not available.	
<b>Molecular weight</b>	: 58.09 g/mole	
<b>Aerosol product</b>		
<b>Heat of combustion</b>	: -28493500 J/kg	
<b>VOC content</b>	: 100 % (w/w)	As shipped, including monomers and additives.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.  
Not available.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials  
Not available.

**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
acetone	LD50 Oral	Rat	5800 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	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-

#### Sensitization

## Section 11. Toxicological information

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### 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.	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**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.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

### 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:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

## Section 11. Toxicological information

**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** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/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 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetone	-0.23	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Acetone (I); 2-Propanone (I)	67-64-1	Listed	U002

## Section 14. Transport information

	DOT Classification	Mexico Classification	TDG Classification	IATA	IMDG
<b>UN number</b>	UN1090	UN1090	UN1090	UN1090	UN1090
<b>UN proper shipping name</b>	ACETONE	ACETONE	ACETONE	ACETONE	ACETONE
<b>Transport hazard class(es)</b>	3 	3 	3  	3 	3  
<b>Packing group</b>	II	II	II	II	II
<b>Environmental hazards</b>	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.

### Additional information

**DOT Classification** : **Reportable quantity** 5000 lbs / 2270 kg [758.12 gal / 2869.8 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

## Section 14. Transport information

- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).  
The marine pollutant mark is not required when transported by road or rail.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
Not listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- SARA 302/304**  
**Composition/information on ingredients**  
No products were found.
- SARA 304 RQ** : Not applicable.
- SARA 311/312**  
**Classification** : FLAMMABLE LIQUIDS - Category 2  
EYE IRRITATION - Category 2A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
- State regulations**
- Massachusetts** : This material is listed.
- New York** : This material is listed.
- New Jersey** : This material is listed.
- Pennsylvania** : This material is listed.
- California Prop. 65** : The following components are listed. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
- Inventory list**
- Australia** : This material is listed or exempted.
- Canada** : This material is listed or exempted.
- China** : This material is listed or exempted.
- Europe** : This material is listed or exempted.
- Japan** : **Japan inventory (ENCS):** This material is listed or exempted.  
**Japan inventory (ISHL):** This material is listed or exempted.
- Malaysia** : This material is listed or exempted.

## Section 15. Regulatory information

<b>New Zealand</b>	: This material is listed or exempted.
<b>Philippines</b>	: This material is listed or exempted.
<b>Republic of Korea</b>	: This material is listed or exempted.
<b>Taiwan</b>	: This material is listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: This material is listed or exempted.
<b>United States</b>	: This material is listed or exempted.
<b>Viet Nam</b>	: Not determined.

## 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 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.

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.

### National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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.

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Expert judgment Expert judgment Expert judgment

### History

<b>Date of printing</b>	: 10/16/2018
<b>Date of issue/Date of revision</b>	: 9/30/2018
<b>Date of previous issue</b>	: No previous validation

## Section 16. Other information

<b>Version</b>	: 1	New form 08-2018
<b>Prepared by</b>	: Health, Safety and Environmental Department	
<b>For questions about the SDS, contact</b>	: <a href="mailto:iasafety@ip-corporation.com">iasafety@ip-corporation.com</a>	
<b>Key to abbreviations</b>	: 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	
<b>References</b>	: 29 CFR 1910.1200 Hazard Communication Standard, March 2012 CCR Title 27 Division 4 Office of Environmental Health Hazard Assessment (California Prop. 65) American Composites Manufacturers Association Styrene Information and Research Center	

✔ 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.



The Procter & Gamble Company  
P&G Household Care  
Fabric & Home Care Innovation Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217-1087

## MATERIAL SAFETY DATA SHEET

MSDS #: RQ0704698, RQ0703560  
RQ0701082, RQ0809933

Issue Date: July 3, 2008

Supersedes: FH/F/2006/MYMT-6VZQDN  
FH/F/2006/MYMT-6W8NUK

Issue Date: February, 2007

### SECTION I - PRODUCT IDENTIFICATION

**Identity:** AEROSOL AIR REFRESHER

**Finished Product**

**Brands:** FEBREZE AIR EFFECTS (Linen & Sky, Meadows & Rain, Spring & Renewal, Citrus & Light, Blossoms and Breeze, Mint & Refresh, Summer & Splash, Apple Spice & Delight, Vanilla & Baking, Fresh Evergreen & Snow, Autumn Spice & Crisp, Lavendar Vanilla & Comfort, Rocky Springs & Cool, Berries & Paradise, Summer & Splash, Winds & Springtime, Vanilla & Refresh, Powder & Pamper, Pumkin Harvest & Fall, Winter Evening & Warmth, Pet Odor Eliminator, Pure Refreshment and Clean Citrus, Hawaiian Aloha, Moroccan Bazaar, Brazilian Carnival, and other seasonal scents)

**P&G Telephone Number:** 1-800-308-EASY (1-800-308-3279) or call Local Poison Control Center or your physician.

**Emergency (24 hour) Telephone Number:** CHEMTREC 1-800-424-9300 – in the U.S. and Canada  
1-703-527-3887 - for calls originating elsewhere

### SECTION II - HAZARDS IDENTIFICATION

**Potential Health Hazards (Acute and Chronic):** (See Section 11 for more information)

Ingestion: None

Eye Contact: Mild eye irritant

Skin: None

Inhalation: None

**Signs and Symptoms of Exposure:**

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Eye Contact: Do not spray toward face. If eye contact occurs, rinse well with water.

Skin Contact: Prolonged skin contact or instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.

Inhalation: Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. Inhalation of high concentrations of ethanol vapor may cause irritation of the eyes and respiratory tract, drowsiness and fatigue.

Medical Conditions Generally Known to be Aggravated by Exposure: None

**Potential Environmental Effects:** (See Section 12 for more information)

### SECTION III - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Water, alcohol, odor eliminator derived from corn, fragrance, non-flammable natural propellant, quality control ingredients. Contents under pressure with nitrogen.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethanol	Alcohol	64-17-5	3-7%	7.06 g/kg rat, oral

### SECTION IV – FIRST AID INFORMATION

#### **First Aid Procedures:**

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water.

Inhalation: Remove to fresh air.

**Note to Physician:** (if applicable)

**Other:** Consumer product package has the following precautionary statement:

#### **US Product Package:**

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.** Read back panel carefully.

BACK PANEL: **CAUTION:** Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water. If irritation persists, get medical attention. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

#### **Canadian Product Package:**

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.**

BACK PANEL: **CAUTION: CONTAINER MAY EXPLODE IF HEATED.** Do not puncture. Do not burn. Store away from heat. Some hard surfaces may become damp when sprayed. Avoid slips or falls. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water.

### SECTION V - FIRE FIGHTING INFORMATION

**Flash Point (Method Used):** 125-140°F (cc)/ 51.66- 60°C Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.

**Flammable Properties:** Mixture and propellant are not flammable.

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

**Explosive Limits:** UEL: N/A LEL: N/A

**Auto-ignition Temperature:** N/K

**Hazardous Combustion Products:** N/K

**Explosion Data (Sensitivity to Mechanical Impact):** N/A

**Explosion Data (Sensitivity to Static Discharge):** N/A

#### **Extinguishing Media:**

Suitable: CO<sub>2</sub>, water or dry chemical may be used.

Unsuitable: N/K

#### **Protection of Firefighters:**

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None

**Environmental Precautions:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some US states because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

**Methods for Containment:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

**Methods for Cleanup:** For individual cans, expel liquid, collect, incinerate, puncture container and send as scrap metal for recycling.

**Other Information:** (if applicable): N/A

## SECTION VII – HANDLING AND STORAGE

### Precautions For Safe Handling

**For Household Setting:** Keep out of reach of children. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

**For Non – Household Setting:** Avoid puncturing or otherwise damaging aerosol containers and packaging when using forklifts or other material handling equipment.

**Conditions for Safe Storage:** Do not expose to heat or flame.

**For Household Setting:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F.

**For Non-Household Use:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F. Store in accordance with local requirements for Aerosol Level 1 products.

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm  
OSHA Z-1 PEL 1000 ppm

**Engineering Controls:** N/A

### Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use.

*Industrial setting:* If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

*Industrial setting:* Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

*Industrial setting:* Use ventilation to minimize exposure to vapor or mist (ethanol).

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):**

Clear liquid.

**Flash Point (Method Used):** 125-140°F (cc)/ 51.66- 60°C. Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.

**Odor:** Perfume

**Solubility in Water:** Soluble

**Odor Threshold:** N/A

**Decomposition Temperature:** N/A

**Physical State:** liquid

**Evaporation Rate (nBuOAc=1):** N/K

**Vapor Pressure (mm Hg):** N/A

**Specific Gravity/Density (H<sub>2</sub>O=1):** ~ 1.0

**Vapor Density (Air=1):** N/A

**Melting/Freezing Point:** N/A

**Boiling Point:** 212°F / ~100°C

**Reserve Alkalinity:** N/A

**Partition Coefficient (n-octanol/water):** N/A

**pH (neat):** 4.0-5.0

**pH (neat):** 7.0 (Pet Odor Eliminator, Pure Refreshment and Clean Citrus)

**Volatile Organic Compound (VOC):** Product complies with State and Federal regulations for VOC content.

## SECTION X - STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Conditions to Avoid:** Avoid extreme heat.

**Incompatible Materials:** N/K

**Hazardous Decomposition Products:** N/K

**Possibility of Hazardous Reactions:** N/K

## SECTION XI – TOXICOLOGICAL INFORMATION

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.  
LD50 (rats oral) – estimated >5000 mg/kg

**Chronic Effects:** No chronic health effects reported.

**Target Organs:** No target organs reported.

**Carcinogenicity:** This finished consumer product is not carcinogenic.

NTP: No

IARC: No

## SECTION XII - ECOLOGICAL INFORMATION

This product is intended for dispersive use. The ingredients do not pose a significant hazard to aquatic organisms and will not cause any long-term adverse effects in the environment at environmentally relevant concentrations. The container is compatible with municipal solid waste systems and will not pose a hazard to the environment when properly handled.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

*Non-Household Setting (federal):* For individual bottles, expel liquid, collect and incinerate. Puncture container and send as scrap metal for recycling.

*Non-Household Setting (California):* Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

*Household Use:* Consumer may discard empty container in trash, or recycle where facilities exist.

**SECTION XIV - TRANSPORT INFORMATION**

**Transportation Information** – Products covered by this MSDS, in their original form, are regulated for transportation.

For finished packaged product transported by ground (US DOT): **Consumer Commodity ORM-D.**

For finished packaged product transported by sea (IMDG): UN1950, Aerosols, 2.2

For finished packaged product transported by air (IATA): **ID8000 Consumer Commodity, 9**

**SECTION XV - REGULATORY INFORMATION**

**UNITED STATES - FEDERAL**

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA chemicals: This product contains the following SARA 313/302/304/311/312 chemicals: NONE

**STATES:**

This product is not subject to warning labeling under California Proposition 65.

**State Right-to-Know and CERCLA:**

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

<b>Ingredient</b>	<b>CAS#</b>	<b>Level</b>	<b>States</b>					<b>CERCLA RQ</b>
Ethanol	64-17-5	1-5%	IL	MA	NJ	PA	RI	100 lbs

**Canada**

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

## SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	2	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

\*N/A. - Not Applicable

\*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

## Section 1. Product and Company Identification

<b>Product Name</b>	<b>AIRWICK® STICK UPS®, AIR FRESHENER, VARIOUS SCENTS</b>	<b>MSDS#</b>	Not available.
<b>Product Description</b>	Air freshener infused onto an absorbent pad which is in a plastic holder with an adhesive backing for mounting on various surfaces.	<b>Validation Date</b>	2/5/2004
<b>Manufacturer</b>	Reckitt Benckiser North America, Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, N.J. 07054-0225	<b>Print Date</b>	2/5/2004
<b>Product Identifier</b>	Not available.	<b>In case of Emergency:</b>	Telephone: 800-228-4722
<b>Item Number</b>	26600-70506-10	<b>Transportation Emergencies:</b>	Chemtrec: 1-800-424-9300 (U.S. & Canada)  Outside the U.S & Canada (North America), call: 703-527-3887
<b>Formula Number</b>	Country Potpourri (449.058) F/F 375434; Crisp Breeze (UK015712/00) F/F 380249; Peach Sensation (006731) F/F 370541; Sparkling Citrus (150.845X) F/F 375539; White Bouquet (UJ002823/00) F/F 375368.		
<b>UPC Number</b>	26600-70524 (Country Potpourri); 26600-74735 (Crisp Breeze); 26600-70506 (Peach Sensation); 26600-74372 (Sparkling Citrus); 26600-74177 (White Bouquet); all are 2 packs of Airwick® Stick-ups® Disks.		

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
No hazardous ingredient.			

## Section 3. Hazards Identification

**Emergency Overview** Eye contact may cause transient eye discomfort. KEEP OUT OF REACH OF CHILDREN.

## Section 4. First Aid Measures

<b>Eye Contact</b>	As with any material contacting the eye, it is recommended to rinse the eyes thoroughly with water.
<b>Skin Contact</b>	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Rinse mouth with water. Contact a physician or poison control center if symptoms develop. NEVER give an unconscious person anything to ingest.

## Section 5. Fire and Explosion Data

<b>Flammability</b>	Not flammable. See Section 14 for any Shipping Classifications.
<b>Flash Point</b>	Not applicable.
<b>Explosive Limits in Air</b>	Not available.
<b>Products of Combustion</b>	Fumes, smoke, carbon monoxide and other unknown decomposition products from the plastic disk.

<b>Fire and Explosion Hazards</b>	None known.
<b>Fire Fighting Media and Instructions</b>	Not a fire hazard. Use extinguishing media suitable for surrounding materials.
<b>Special Fire Fighting Instructions</b>	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.

**Section 6. Accidental Release Measures**

<b>Accidental Spill</b>	If the disk breaks a small amount of liquid may be present on the floor or other surface. Absorb with an inert material and put the spilled material and broken disk in an appropriate container for household waste.
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**Section 7. Handling and Storage**

<b>Handling and Storage</b>	KEEP OUT OF REACH OF CHILDREN. Store containers in a cool, dry place in areas inaccessible to children and pets.
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**Section 8. Exposure Controls/Personal Protection**

<b>Ventilation Requirements</b>	No specific controls are needed.
<b>Eye Protection</b>	None required.
<b>Skin Protection</b>	None required.
<b>Respiratory Protection</b>	None required.
<b>Other Protection</b>	None required.
<b>Work/Hygienic Practices</b>	None required.

**Section 9. Physical and Chemical Properties**

<b>Description</b>	Liquid. (A pad with an absorbed clear, water thin liquid fragrance inside a plastic container.)	<b>Odor</b>	Various scents.
<b>pH</b>	Not available.	<b>Color</b>	Colorless to very pale yellow liquid on an absorbent pad.
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not determined.		
<b>Vapor Density</b>	Not determined.		
<b>Viscosity</b>	Not available.		
<b>Solubility</b>	Insoluble.		
<b>Physical Chemical Comments</b>	Not available.		

**Section 10. Stability and Reactivity Data**

<b>Chemical Stability</b>	The product is stable.
<b>Conditions of Instability</b>	None known.
<b>Incompatibility with Various Substances</b>	None known.
<b>Hazardous Decomposition Products</b>	Carbon dioxide, carbon monoxide, smoke and unidentified organic compounds may be formed during thermal decomposition.
<b>Hazardous Polymerization</b>	Will not occur.

**Section 11. Toxicological Information**

**Exposure effects**

<b>Eye Contact</b>	Not an eye irritant. Direct contact with eyes may cause irritation due to mechanical abrasion or the liquid in the pad may cause temporary minor irritation.
<b>Skin Contact</b>	Not a primary skin irritant.
<b>Inhalation</b>	Not toxic by inhalation.
<b>Ingestion</b>	Not orally toxic.
<b>Carcinogenicity</b>	Not listed as carcinogenic by OSHA, NTP or IARC.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
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**Section 13. Disposal Considerations**

<b>Waste Disposal</b>	Discard with trash collection or dispose of in accordance with local, state and federal regulations for non-hazardous materials.
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**Section 14. Transport Information**

<b>DOT Classification</b>	Not regulated by DOT (United States).	
<b>Proper Shipping Name</b>	Not applicable.	
<b>DOT Identification Number</b>	Not applicable.	
<b>Packing Group</b>	Not applicable.	
<b>Maritime Transportation</b>	Not applicable.	
<b>Hazardous Substances Reportable Quantity</b>	Not applicable.	
<b>Special Provisions for Transport</b>	Not applicable.	
<b>TDG Classification</b>	Not regulated by TDG.	
<b>ADR Classification</b>	Not applicable.	

**IMDG Classification** Not regulated by IMDG.

**IATA Classification** Not regulated by IATA.

**Section 15. Regulatory Information**

**Federal and State Regulations** SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:  
None  
  
California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:  
1) None

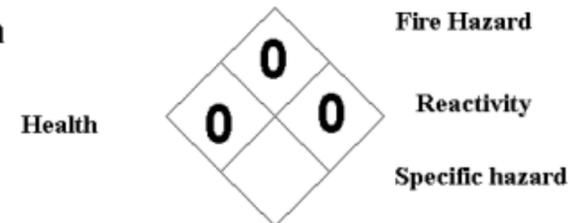
**Other Classifications** **WHMIS (Canada)** Not controlled under WHMIS (Canada).

**Section 16. Other Information**

**HMIS (U.S.A.)**

Health Hazard	0
Fire Hazard	0
Reactivity	0
Personal Protection	A

**National Fire Protection Association (U.S.A.)**



**NFPA Aerosol Level** Not applicable.

**Validated by Product Safety on 2/5/2004.**

**Printed 2/5/2004.**

**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.*

## Polyisocyanurate Foam Boards

Version 2.1

Revision Date 10/12/2020

Print Date 10/12/2020

### SECTION 0. GENERAL INFORMATION

This product meets the definition of an article according to 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015).

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : AP™ Breathing Sheathing, AP™ Foil-Faced Foam Sheathing, CI Max® Foam Sheathing, GoBoard®, GoBoard® LT, GoBoard® LW, R-Panel® Roof Insulation, XSPECT® ISOfoam APF Board

Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80127  
Telephone : +1-303-978-2000  
Emergency telephone number : 24-Hour Number: +1-800-424-9300 (CHEMTREC)

Prepared by : productsafety@jm.com

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Non-hazardous according to 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015), when used as intended.

### SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.  
If inhaled : If unconscious, place in recovery position and seek medical advice.  
If breathing is irregular or stopped, administer artificial respiration.  
If symptoms persist, call a physician.  
In case of skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.  
In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.

## Polyisocyanurate Foam Boards

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If swallowed	: Protect unharmed eye. If eye irritation persists, consult a specialist. : Do NOT induce vomiting. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Carbon dioxide (CO <sub>2</sub> ) Dry chemical Foam
Hazardous combustion products	: carbon oxides
Specific extinguishing methods	: Standard procedure for chemical fires.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid dust formation.
Methods and materials for containment and cleaning up	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	: Keep in a dry, cool place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

#### Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required.
Hand protection	: For prolonged or repeated contact use protective gloves.
Remarks	: Safety glasses
Eye protection	: If used and stored as directed, no special protective equipment is necessary.
Skin and body protection	: Handle in accordance with good industrial hygiene and safety practice. Written instructions for handling must be available at the work
Hygiene measures	:

## Polyisocyanurate Foam Boards

Version 2.1

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place.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No decomposition if used as directed.  
No hazards to be specially mentioned.  
Conditions to avoid : Heat, flames and sparks.

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### SECTION 11. TOXICOLOGICAL INFORMATION

**Further information**

No data available

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### SECTION 12. ECOLOGICAL INFORMATION

**Further information**

No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

---

### SECTION 14. TRANSPORT INFORMATION

**International transport regulations**

## Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

## Sea transport

IMDG: Not classified as a dangerous good under transport regulations

## Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

## Polyisocyanurate Foam Boards

Version 2.1

Revision Date 10/12/2020

Print Date 10/12/2020

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### SECTION 15. REGULATORY INFORMATION

**TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals : Not relevant

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : Not relevant

**SARA 311/312 Hazards** : No SARA Hazards

**California Prop. 65**

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

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### SECTION 16. OTHER INFORMATION

**Further information**

Prepared by [productsafety@jm.com](mailto:productsafety@jm.com)

The information provided in this Safe Use Instruction (SUI) 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 emergency response 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.

# Safety Data Sheet



## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### Chevron and Texaco Unleaded Gasolines (All Grades)

**Product Use:** Fuel

**Synonyms:** Automotive; Calco Mid-Grade Unleaded Gasoline; Calco Premium Gasoline; Calco Regular Unleaded Gasoline; CHEVRON and TEXACO MID-GRADE UNLEADED GASOLINES; CHEVRON and TEXACO PREMIUM UNLEADED GASOLINES; CHEVRON and TEXACO REGULAR UNLEADED GASOLINES; Chevron Mid-Grade Unleaded Gasoline; Chevron Plus Unleaded Gasoline; Chevron Premium Unleaded Gasoline; Chevron Regular Unleaded Gasoline; Chevron Supreme Plus Unleaded Gasoline; Chevron Supreme Unleaded Gasoline; Chevron UL/CQ Gasoline; GASOLINE (GENERIC); Gasolines; Texaco Power Plus Gasoline; Texaco Power Premium Unleaded Gasoline; Texaco Unleaded Gasoline; UNLEADED GASOLINE FOR EXPORT

**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

## 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:** In case of fire: Use media specified in the SDS to extinguish. IF exposed or concerned: Get medical advice/attention. IF INHALED: Call a poison center or doctor/physician if you feel unwell. Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (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. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. 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**

**Hazardous Substance(s) or Complex Substance(s) required for disclosure**

COMPONENTS	CAS NUMBER	AMOUNT
Gasoline	86290-81-5	100 %volume

**Hazardous Constituent(s) Contained in Complex Substance(s) required for disclosure**

COMPONENTS	CAS NUMBER	AMOUNT
Toluene	108-88-3	1 - 35 %volume
Xylene	1330-20-7	1 - 15 %volume
Pentane isomers (pentanes)	MIXTURE	1 - 13 %volume
Butane	106-97-8	1 - 12 %volume
Ethanol	64-17-5	0 - 10 %volume
Benzene	71-43-2	0.1 - 5 %volume
Hexane	110-54-3	1 - 5 %volume
Heptane	142-82-5	1 - 4 %volume
Cyclohexane	110-82-7	1 - 3 %volume
Ethylbenzene	100-41-4	0.1 - 3 %volume
Naphthalene	91-20-3	0.1 - 2 %volume
Methylcyclohexane	108-87-2	1 - 2 %volume

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 See Section 11 for additional information. Risk depends on duration and level of exposure.

**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, CO<sub>2</sub>, Aqueous Film Forming Foam (AFFF) 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. Use only as a motor fuel. Do not use for cleaning, pressure appliance fuel, or any other such use. 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:** Improper filling of portable gasoline containers creates danger of fire. Only dispense gasoline into approved and properly labeled gasoline containers. Always place portable containers on the ground. Be sure pump nozzle is in contact with the container while filling. Do not use a nozzle's lock-open device. Do not fill portable containers that are inside a vehicle or truck/trailer bed.

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:** 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	Form	TWA	STEL	Ceiling	Notation
Gasoline	ACGIH	Vapor	300 ppm	500 ppm	--	A3
Gasoline	ACGIH	--	300 ppm	500 ppm	--	--
Toluene	ACGIH	--	20 ppm	--	--	--
Toluene	OSHA Z-2	--	200 ppm	--	300 ppm	--
Xylene	ACGIH	--	100 ppm	150 ppm	--	--
Xylene	OSHA Z-1	--	435 mg/m3	--	--	--
Butane	ACGIH	--	--	1000 ppm	--	--
Ethanol	ACGIH	--	1000 ppm	--	--	A4
Ethanol	OSHA Z-1	--	1900 mg/m3	--	--	--
Benzene	ACGIH	Vapor	.5 ppm	2.5 ppm	--	--

Benzene	ACGIH	--	.5 ppm	2.5 ppm	--	Skin
Benzene	CVX	Vapor	1 ppm	5 ppm	--	--
Benzene	OSHA SRS	--	1 ppm	5 ppm	--	--
Benzene	OSHA Z-2	--	10 ppm	--	25 ppm	--
Hexane	ACGIH	--	50 ppm	--	--	Skin
Hexane	OSHA Z-1	--	1800 mg/m3	--	--	--
Heptane	ACGIH	--	400 ppm	500 ppm	--	--
Heptane	OSHA Z-1	--	2000 mg/m3	--	--	--
Cyclohexane	ACGIH	--	100 ppm	--	--	--
Cyclohexane	OSHA Z-1	--	1050 mg/m3	--	--	--
Ethylbenzene	ACGIH	Vapor	100 ppm	--	--	--
Ethylbenzene	ACGIH	--	20 ppm	--	--	--
Ethylbenzene	OSHA Z-1	--	435 mg/m3	--	--	--
Naphthalene	ACGIH	Vapor	10 ppm	15 ppm	--	A4 Skin
Naphthalene	ACGIH	--	10 ppm	--	--	Skin
Naphthalene	OSHA Z-1	--	50 mg/m3	--	--	--
Methylcyclohexane	ACGIH	--	400 ppm	--	--	--
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 - 15.50 psi (Typical) @ 37.8 °C (100 °F)

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

**Initial Boiling Point:** 27.2°C (81°F) - 52.8°C (127°F) (Typical)

**Solubility:** Negligible

**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/m<sup>3</sup> (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.

### 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 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

Gasoline studies have been conducted in the laboratory under a variety of test conditions with a range of fish and invertebrate species. An even more extensive database is available on the aquatic toxicity of individual aromatic constituents. The majority of published studies do not identify the type of gasoline evaluated, or even provide distinguishing characteristics such as aromatic content or presence of lead alkyls. As a result, comparison of results among studies using open and closed vessels, different ages and species of test animals and different gasoline types, is difficult.

The bulk of the available literature on gasoline relates to the environmental impact of monoaromatic (BTEX) and diaromatic (naphthalene, methylnaphthalenes) constituents. In general, non-oxygenated gasoline exhibits some short-term toxicity to freshwater and marine organisms, especially under closed vessel or flow-through exposure conditions in the laboratory. The components which are the most prominent in the water soluble fraction and cause aquatic toxicity, are also highly volatile and can be readily biodegraded by microorganisms.

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.

## 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

### EPCRA 311/312 CATEGORIES:

Aspiration Hazard  
Carcinogenicity  
Flammable (gases, aerosols, liquids, or solids)  
Germ cell mutagenicity  
Reproductive toxicity  
Serious eye damage or eye irritation  
Skin Corrosion or Irritation  
Specific target organ toxicity (single or repeated exposure)

### 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.

Gasoline	01-2B, 07
Toluene	04, 05, 06, 07
Xylene	03, 05, 06, 07
Butane	05, 06, 07
Ethanol	01-1, 02, 04, 05, 06, 07
Hexane	04, 05, 06, 07
Benzene	01-1, 02, 03, 04, 05, 06, 07
Heptane	05, 06, 07
Ethylbenzene	01-2B, 03, 04, 05, 06, 07
Cyclohexane	05, 06, 07
Methylcyclohexane	05, 06
Naphthalene	01-2B, 02, 04, 05, 06, 07

### 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

Revision Number: 0  
Revision Date: March 13, 2020

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Chevron and Texaco Unleaded Gasolines  
(All Grades)  
SDS : 43251

**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).

**REVISION STATEMENT:** This is a new Safety Data Sheet. No revision information

**Revision Date:** March 13, 2020

**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.**



<b>I Product:</b> CLOROX COMMERCIAL SOLUTIONS® SOFT SCRUB® WITH BLEACH DISINFECTANT CLEANSER		
<b>Description:</b> WHITE, VISCOUS, FRAGRANCED LIQUID		
<b>Other Designations</b>	<b>Distributor</b>	<b>Emergency Telephone Nos.</b>
Commercial Solutions Soft Scrub with Bleach Disinfectant Cleanser  EPA Reg. No. 5813-25-67619	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call (800) 446-1014  For Transportation Emergencies, call Chemtrec (800) 424-9300

<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>		
Causes eye irritation. May cause skin irritation. Keep out of reach of children.  Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g., irritation) occurs during exposure. Under normal consumer use conditions the likelihood of any adverse health effects are low.  There are no known medical conditions aggravated by exposure to this product.  <u>FIRST AID:</u>  <u>Eye Contact:</u> Hold eye open and rinse with water for 15-20 minutes. Remove contact lenses, after first 5 minutes. Continue rinsing eye. Call a physician.  <u>Skin Contact:</u> Wash skin with water. If irritation develops, call a physician.  <u>Ingestion:</u> Do not induce vomiting. Drink a glassful of water. If irritation develops, call a physician. Do not give anything by mouth to an unconscious person.  <u>Inhalation:</u> Remove to fresh air. If breathing is affected, call a physician.	<u>Ingredient</u>	<u>Concentration</u>	<u>Exposure Limit</u>
	Calcium carbonate CAS# 1317-65-3	25-40%	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction) <sup>1</sup>
	Sodium hypochlorite CAS# 7681-52-9	1.1%	Not established
	Aluminum distearate CAS# 300-92-5	0.5-1%	Not established
	Sodium hydroxide CAS# 1310-73-2	<1%	2 mg/m <sup>3,2</sup> 2 mg/m <sup>3</sup> ; 1
	<sup>1</sup> OHSA Permissible Exposure Limit (PEL) – Time Weighted Average (TWA) <sup>2</sup> ACGIH Threshold Limit Value (TLV) – Time Weighted Average (TWA)  None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.		

<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>
No special protection or precautions have been identified for using this product under directed consumer use conditions. The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.  <u>Hygienic Practices:</u> Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.  <u>Engineering Controls:</u> None specified.  <u>Personal Protective Equipment:</u> Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods.	<u>US DOT:</u> Not restricted.  <u>IMDG:</u> Not restricted.  <u>IATA:</u> Not restricted.  <u>EPA- SARA Title III/CERCLA:</u> Product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313. Contains sodium hypochlorite and sodium hydroxide, which are regulated under 304/CERCLA.  <u>TSCA/DSL:</u> All chemicals in this product are listed on the TSCA Inventory. The DSL status for some components has not been determined.

<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>
<u>Spill Procedures:</u> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.  <u>Waste Disposal:</u> Disposal must be made in accordance with applicable federal, state and local regulations.	<u>Stability:</u> Stable under normal use and storage conditions.  <u>Reactivity:</u> Reacts with chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegars and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.  <u>Storage/Disposal:</u> Do not use or store near heat or open flame.

<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>
<u>Fire Extinguishing Agents:</u> Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ) <u>Flashpoint:</u> >200°F (closed cup). <u>Unusual Fire and Explosion Hazards:</u> None.	<u>Specific Gravity:</u> ..... ~1.3 <u>pH:</u> ..... 12.0-13.0 <u>Solubility (Water):</u> ..... Dispersible <u>Viscosity:</u> ..... 10000-15000 cP



# SAFETY DATA SHEET

Issuing Date 14-Jun-2016

Revision Date 09-Oct-2017

Revision Number 3

NGHS - English

## 1. IDENTIFICATION

### Product identifier

**Product Name** Clorox® Disinfecting Wipes with Micro-Scrubbers (Crisp Lemon)

### Other means of identification

**EPA Pesticide registration number** 5813-79

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

**Recommended Use** Wipes, Disinfecting  
**Uses advised against** No information available

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

**Supplier Identification** The Clorox Company

**Address** 1221 Broadway  
Oakland  
CA  
94612  
US

**Telephone** 1-510-271-7000

**E-mail**

### Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** White

**Physical state** Pre-Moistened Towelette  
(no free liquids)

**Odor** Lemon

### GHS Label elements, including precautionary statements

### **Hazard statements**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Other information

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance

Chemical Name	CAS-No	Percent	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethylene glycol monohexyl ether	112-25-4	1-5	-	-
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	85409-23-0	0.1-1	-	-
Alkyl C12-18 Dimethylbenzyl Ammonium Chloride	68391-01-5	0.1-1	-	-

**4. FIRST AID MEASURES**

First aid measures

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	No information available.

**Hazardous Combustion Products** Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 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 material 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.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol monoethyl ether 112-25-4	None	None	None
Alkyl C12-18 Dimethylbenzyl Ammonium Chloride 68391-01-5	None	None	None

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

**Engineering controls** None under normal use conditions.

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**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.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical and Chemical Properties

**Physical state** Pre-Moistened Towelette (no free liquids)  
**Appearance** White  
**Odor** Lemon  
**Color** No information available  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	6-9	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	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
Relative density	1.0	None known
Water Solubility	Soluble in water	None known
Solubility(ies)	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 information available	
Oxidizing properties	No information available	

Other Information

**Softening Point** No information available  
**Molecular Weight** No information available  
**VOC Content (%)** No information available  
**Liquid Density** No information available  
**Bulk Density** No information available  
**Particle Size** No information available  
**Particle Size Distribution** No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

### Information on toxicological effects

**Symptoms** No information available.

### Numerical measures of toxicity

#### Acute Toxicity

**Unknown acute toxicity Component Information** No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol monoethyl ether	739 mg/kg (Rat)	721 mg/kg (Rabbit)	>0.5 mg/L (Rat, 4 h)
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	-	-	-
Alkyl C12-18 Dimethylbenzyl Ammonium Chloride	-	-	-

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

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.

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<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	NOT REGULATED
<b><u>TDG</u></b>	NOT REGULATED
<b><u>MEX</u></b>	NOT REGULATED
<b><u>ICAO</u></b>	NOT REGULATED
<b><u>IATA</u></b>	NOT REGULATED
<b><u>IMDG/IMO</u></b>	NOT REGULATED
<b><u>RID</u></b>	NOT REGULATED
<b><u>ADR</u></b>	NOT REGULATED

ADN

NOT REGULATED

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

#### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

#### 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  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Percent	SARA 313 - Threshold Values %
Ethylene glycol monohexyl ether - 112-25-4	112-25-4	1-5	1.0

<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

#### **CWA (Clean Water Act)**

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

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethylene glycol monohexyl ether 112-25-4		s	X	X	X

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide label**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 1	Flammability 0	Instability 0	<b>Physical and Chemical Properties - Personal Protection X</b>
<b>HMIS</b>	Health hazards 1	Flammability 0	Physical hazards 0	

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 14-Jun-2016

**Revision Date** 09-Oct-2017

**Revision Note** No information available

**Disclaimer**

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

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date 10-Dec-2020

Revision Number 3

## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

### Product identifier

**Product Name** Clorox® Regular-Bleach<sub>1</sub>

### Other means of identification

**EPA Registration Number** 5813-100

**Document Number** US001066

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

**Recommended use** Household disinfecting, sanitizing, and laundry bleach

**Uses advised against** No information available

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

#### **Supplier Address**

The Clorox Company  
1221 Broadway  
Oakland, CA 94612

Phone: 1-510-271-7000

### Emergency telephone number

**Emergency Phone Numbers** For Medical Emergencies, call: 1-800-446-1014  
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

**2. HAZARDS IDENTIFICATION**

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b>	<b>Danger</b>
<b>Hazard Statements</b>	
Causes severe skin burns and eye damage	
Causes serious eye damage	
	
<b>Appearance</b>	Clear, pale yellow
<b>Physical State</b>	Thin liquid
<b>Odor</b>	Bleach

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.  
 Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

**Precautionary Statements - Response**

Immediately call a poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see supplemental first aid instructions on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents in accordance with all applicable federal, state, and local regulations.

**Hazards not otherwise classified (HNOC)**

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

**Unknown Toxicity**

Not applicable.

**Other information**

Very toxic to aquatic life with long lasting effects.

**Interactions with Other Chemicals**

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium hypochlorite	7681-52-9	5 - 10	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First aid measures****General Advice**

Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance.

**Eye Contact**

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

**Skin Contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation**

Move to fresh air. If breathing is affected, call a doctor.

**Ingestion**

Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

**Protection of First-aiders**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Burning of eyes and skin.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific Hazards Arising from the Chemical**

This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition can release sodium chlorate and irritating gases and vapors.

### **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**

Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. For spills of multiple products, responders should evaluate the SDSs of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

#### **Environmental Precautions**

This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological information.

### **Methods and material for containment and cleaning up**

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for Cleaning Up**

Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product.

**Incompatible Products** Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hypochlorite 7681-52-9	None	None	None

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.

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.

**Skin and Body Protection** Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.

**Respiratory Protection** If 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. Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Thin liquid	<b>Odor</b>	Bleach
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	Pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	~12	None known
Melting/freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	Not flammable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.1	None known
Water Solubility	Soluble	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	Not explosive	
Oxidizing Properties	No data available	

### Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Exposure to vapor or mist may irritate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.
<b>Eye Contact</b>	Corrosive. May cause severe damage to eyes.
<b>Skin Contact</b>	May cause severe irritation to skin. Prolonged contact may cause burns to skin.
<b>Ingestion</b>	Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. May cause burns to eyes. May cause redness or burns to skin. Inhalation may cause coughing.

### Delayed and immediate effects as well as 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Carcinogenic potential is unknown.

**Target Organ Effects** Respiratory system, eyes, skin, gastrointestinal tract (GI).

**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)**

54 g/kg

**ATEmix (inhalation-dust/mist)**

58 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No information available.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this product.

**Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

**14. TRANSPORT INFORMATION**

**For shipments:** Less than 119 gallons / 450 liters

**DOT** NOT REGULATED

**IMDG** NOT REGULATED

**IATA** NOT REGULATED

**For shipments:** 119 gallons / 450 liters or more

-

**DOT**

<b>UN-No.</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite),
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	RQ UN3082, Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite), 9, III, Marine Pollutant

**IATA**

<b>UN-No.</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite),
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	RQ UN3082, Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite), 9, III, Marine Pollutant

**IMDG/IMO**

<b>UN-No.</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite),
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	RQ UN3082, Environmentally Hazardous Substance, Liquid, N.O.S (Sodium Hypochlorite), 9, III, Marine Pollutant

**15. REGULATORY INFORMATION**

**Chemical Inventories**

**TSCA** All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.  
**DSL/NDSL** All components are 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

**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**

<b>Acute Health Hazard</b>	Yes
<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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 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
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**DANGER: CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

**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	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	X	X	X	X	
Sodium chlorate 7775-09-9	X	X	X		

**16. OTHER INFORMATION**

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Revision Date</b>	10-Dec-2020
<b>Revision Note</b>	Updated transport
<b>Reference</b>	N/A /235335.051

**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 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

Issuing Date November 27, 2018

Revision Date June 30, 2020

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** CloroxPro™ Clorox® Clean-Up® Disinfectant Cleaner with Bleach

### Other means of identification

**EPA Registration Number** 67619-17

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

**Recommended use** Disinfecting bleach spray cleaner

**Uses advised against** No information available

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

#### **Supplier Address**

Clorox Professional Products Company  
1221 Broadway  
Oakland, CA 94612

Phone: 1-510-271-7000

### Emergency telephone number

**Emergency Phone Numbers** For Medical Emergencies, call: 1-800-446-1014  
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

**2. HAZARDS IDENTIFICATION**

**Classification**

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2A
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**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b>	<b>Warning</b>
<b>Hazard Statements</b> Causes serious eye irritation	
	
<b>Appearance</b> Clear, pale yellow	<b>Physical State</b> Liquid
	<b>Odor</b> Citrus, herbaceous, bleach

**Precautionary Statements - Prevention**

Wash hands and any exposed skin thoroughly after handling.  
Wear eye protection/face protection such as safety glasses.

**Precautionary Statements - Response**

**Eyes**

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.

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema, or obstructive lung disease.

**Unknown Toxicity**

0.08% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Toxic to aquatic life with long lasting effects

**Interactions with Other Chemicals**

Reacts with other household chemicals such as products containing ammonia, toilet bowl cleaners, rust removers, or acids to produce hazardous gases, such as chlorine and other chlorinated compounds.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium hypochlorite	7681-52-9	1 - 5	*
Sodium hydroxide	1310-73-2	0.1 - 1	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Rinse skin with plenty of water for 15-20 minutes. If irritation develops and persists, call a doctor.
<b>Inhalation</b>	Move to fresh air. If breathing is affected, call a doctor.
<b>Ingestion</b>	Call a poison control center or doctor. Have person sip a glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor.
<b>Protection of First-aiders</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

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

<b>Most Important Symptoms and Effects</b>	Stinging and irritation of eyes.
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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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

No information available.

#### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
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<b>Sensitivity to Static Discharge</b>	None.
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#### 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** Avoid contact with eyes, skin, and clothing. Use personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental Precautions** See Section 12 for ecological information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

## 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.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Products containing ammonia, toilet bowl cleaners, rust removers, or acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Sodium hypochlorite 7681-52-9	None	None	None

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.

**Appropriate engineering controls**

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
-----------------------------	--

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

<b>Eye/Face Protection</b>	If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.
<b>Skin and Body Protection</b>	None required under normal use conditions.
<b>Respiratory Protection</b>	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.
<b>Hygiene Measures</b>	Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Citrus, herbaceous, bleach
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	Pale yellow		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/Method</u></b>
<b>pH</b>	12.4 - 12.8	None known
<b>Melting/freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash Point</b>	Not flammable	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>		
<b>Upper flammability limit</b>	No data available	None known
<b>Lower flammability limit</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	~1.03	None known
<b>Water Solubility</b>	Soluble 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>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive Properties</b>	Not explosive	
<b>Oxidizing Properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with other household chemicals such as products containing ammonia, toilet bowl cleaners, rust removers, or acids to produce hazardous gases, such as chlorine and other chlorinated compounds.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Products containing ammonia, toilet bowl cleaners, rust removers, vinegar, or acids.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Exposure to vapor or mist may irritate respiratory tract.
<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Prolonged contact may cause irritation.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea, vomiting, and diarrhea.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-
Sodium hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-

### Information on toxicological effects

**Symptoms** Causes redness and tearing of the eyes.

### Delayed and immediate effects as well as 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Carcinogenic potential is unknown.

**Target Organ Effects** Respiratory system, eyes, skin, gastrointestinal tract (GI).

**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  
Not applicable

**12. ECOLOGICAL INFORMATION**

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

**Persistence and Degradability**  
No information available.

**Bioaccumulation**  
No information available.

**Other adverse effects**  
No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**  
Dispose of in accordance with all applicable federal, state, and local regulations.

**Contaminated Packaging**  
Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated.

**TDG** Not regulated if shipped by road or rail.

**ICAO**  
**UN Number:** UN3082  
**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite)  
**Hazard Class:** 9  
**Packing Group:** III  
**Environmental Hazards:** Marine Pollutant  
**Description:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite), 9, III, Marine Pollutant.

**IATA****UN Number:** UN3082**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite)**Hazard Class:** 9**Packing Group:** III**Environmental Hazards:** Marine Pollutant**Description:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite), 9, III, Marine Pollutant.**IMDG/IMO****UN Number:** UN3082**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite)**Hazard Class:** 9**Packing Group:** III**Environmental Hazards:** Marine Pollutant**Description:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite), 9, III, Marine Pollutant.**Transport in Limited Quantities ≤ 5L. Complete package net weight ≤ 30kg (66 lbs.):****IMDG –** Limited Quantity per IMDG Code 3.4. Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exception**Limited Quantity Aircraft ≤ 30kg (66 lbs.) Gross (complete package weight):****IATA –** Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exceptionNot restricted, as per IATA Special Provision A197, Environmentally Hazardous Substance exception

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**15. REGULATORY INFORMATION**

**Chemical Inventories**

**TSCA** All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.  
**DSL/NDSL** All components are 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

**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**

<b>Acute Health Hazard</b>	Yes
<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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			X
Sodium hydroxide 1310-73-2	1000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**WARNING: EYE AND SKIN IRRITANT.** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Harmful if swallowed. For sensitive skin or prolonged use, wear gloves. Vapors may irritate. Avoid prolonged breathing of vapors. Use only in well ventilated areas. **Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.**

**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	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	X	X	X	X	
Sodium hydroxide 1310-73-2	X	X	X	X	

**International Regulations**

**Canada**

**WHMIS Hazard Class**

D2B - Toxic materials



**16. OTHER INFORMATION**

**NFPA** Health Hazard 2 Flammability 0 Instability 0 Physical and Chemical Hazards -

**HMIS** Health Hazard 2 Flammability 0 Physical Hazard 0 Personal Protection B

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Revision Date** June 30, 2020

**Revision Note** Updated transportation classifications.

**Reference** 1103369/50546003.004

**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 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**

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**1. Identification**


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<b>Product identifier</b>	<b>CloroxPro Pine-Sol All Purpose Cleaner - Lemon Fresh</b>		
<b>Other means of identification</b>	Document Number: US001121		
<b>Recommended use</b>	Cleaner		
<b>Recommended restrictions</b>	None known.		
<b>Manufacturer/Importer/Supplier/Distributor information</b>			
<b>Manufacturer</b>			
<b>Company name</b>	The Clorox Company		
<b>Address</b>	1221 Broadway Oakland, CA 94612 United States		
<b>Telephone</b>	1-510-271-7000		
<b>E-mail</b>	Not available.		
<b>Emergency phone number</b>	Medical Emergency:	1-800-446-1014	
	Transportation Emergency:	1-800-424-9300 (Chemtrec)	

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**2. Hazards Identification**


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<b>Physical hazards</b>	Not classified.		
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2B	
<b>Environmental hazards</b>	Not classified.		
<b>OSHA defined hazards</b>	Not classified.		
<b>Label elements</b>			
<b>Hazard symbol</b>	None.		
<b>Signal word</b>	Warning		
<b>Hazard statement</b>	Causes eye irritation.		
<b>Precautionary statement</b>			
<b>Prevention</b>	Wash hands thoroughly after handling.		
<b>Response</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 attention.		
<b>Storage</b>	Store away from incompatible materials.		
<b>Disposal</b>	Dispose of container in accordance with local, regional, national and international regulations.		
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.		
<b>Supplemental information</b>	This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure. This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations.		

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**3. Composition/Information on Ingredients**


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**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C10-14, ethoxylated		66455-15-0	1-5*
Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether		166736-08-9	1-5*

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

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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**4. First Aid Measures**


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<b>Inhalation</b>	If breathed in, move person into fresh air.
<b>Skin contact</b>	If on skin, rinse well with water.
<b>Eye contact</b>	If in eyes, IMMEDIATELY rinse with water for 15 minutes. If irritation persists, call a doctor.

<b>Ingestion</b>	IF SWALLOWED - Drink a glassful of water. DO NOT induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Causes eye irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. KEEP OUT OF REACH OF CHILDREN AND PETS. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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## 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Treat for surrounding material.
<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.

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## 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. 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>	Prevent entry into waterways, sewer, basements or confined areas. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and Storage

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<b>Precautions for safe handling</b>	Avoid contact with eyes, skin or 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>	Keep in original container. Store in a cool, dry, well-ventilated place. Do not reuse containers. 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>	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
<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>	For sensitive skin or prolonged use, wear rubber gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing. 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>	Wash hands before breaks and immediately after handling the product. 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, Slightly viscous.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Yellow
<b>Odor</b>	Lemon, Grapefruit, Floral
<b>Odor threshold</b>	Not available.
<b>pH</b>	10 - 11
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	Not available.
<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>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1
<b>Solubility(ies)</b>	Soluble
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	15 cP

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Oxidizers. Acids.
<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

<b>Inhalation</b>	No adverse effects due to inhalation are expected. Excessive intentional inhalation may cause respiratory tract irritation.
<b>Skin contact</b>	Not expected to be a primary skin irritant.
<b>Eye contact</b>	Causes eye irritation.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.

**Symptoms related to the physical, chemical and toxicological characteristics** Causes serious eye irritation.

**Information on toxicological effects**

**Acute toxicity** See below.

**Components** **Species** **Test Results**

Alcohols, C10-14, ethoxylated (CAS 66455-15-0)

**Acute**

*Dermal*

LD50 Rabbit 2500 mg/kg

*Inhalation*

LC50

*Oral*

LD50 Rat 1800 mg/kg

**Skin corrosion/irritation** Not expected to be a primary skin irritant.

**Exposure minutes** Not available.

**Erythema value** Not available.

**Oedema value** Not available.

**Serious eye damage/eye irritation** Causes eye irritation.

**Corneal opacity value** Not available.

**Iris lesion value** Not available.

**Conjunctival reddening value** Not available.

**Conjunctival oedema value** Not available.

**Recover days** Not available.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

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

Not listed.

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

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

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

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Not available.

**Further information** Not available.

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## 12. Ecological Information

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**Ecotoxicity** Not available.

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

**Mobility in general** Not available.

**Other adverse effects** Not available.

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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal. Discard in garbage or recycle product according to local regulations.
<b>Waste from residues / unused products</b>	Not available.
<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: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.  Canada: TDG: Not regulated as dangerous goods.  US: DOT: Not regulated as dangerous goods.  IMDG: Not regulated as dangerous goods.  IATA: Not regulated as dangerous goods.
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### 15. Regulatory Information

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<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  Product is compliant with CPSC regulatory guidelines.  CAUTION:  EYE IRRITANT. Do not get in eyes. For sensitive skin or prolonged use, wear rubber gloves.
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**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 1910.1001-1052)**

Not regulated.

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

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Serious eye damage or eye irritation

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

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

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

**US state regulations** See below

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**  
Not listed.

**California Proposition 65**

This product is not subject to warning labeling under the California Proposition 65 regulation.

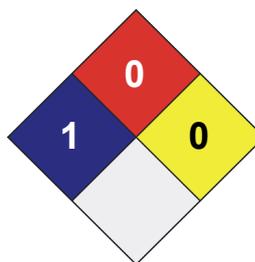
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

<b>HEALTH</b>	/ 1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	X



**Disclaimer**

The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) 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.

**Issue date**

26-July-2021

**Version #**

01

**Further information**

Not available.

**Other information**

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

Item: Not available

Reference Item: 204497.001

Prepared by: The Clorox Company, 4900 Johnson Drive, Pleasanton, CA 94588, 925-368-6000

**CLR - CALCIUM LIME & RUST REMOVER  
MATERIAL SAFETY DATA SHEET**

This Material Safety Data Sheet is being provided to your company for the purpose of providing current health and safety information to your management and employees who work or may be exposed to this product. Please read the data provided and then provide it to those people at your company who have the responsibility to insure compliance with both Federal and State Right to Know regulations, and to those employees that request information on this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire protection as necessary and/or appropriate to use and understand the data contained in this MSDS.

Federal Regulations: Parts 29 and 42 Code of Federal Regulations  
State of Illinois: Public Act 83-240

**SECTION 1 - PRODUCT IDENTIFICATION**

<b>Manufacturer:</b>	Jelmar	<b>Emergency Phone Number:</b>	(847) 675-8400
<b>Address:</b>	5550 W. Touhy Ave. Skokie, IL 60077	<b>Emergency Contact:</b>	Chemtrec (800) 424-9300
<b>Chemical Name:</b>	N/A		
<b>Chemical Family:</b>	Aqueous Acidic Solution		
<b>Formula:</b>	N/A- Mixture		
<b>Common Name:</b>	CLR		
<b>Hazard Classification:</b>	Non-Hazardous		
<b>DOT Classification:</b>	Non-Hazardous (ORM-D)		
<b>NFPA Rating System:</b>	Health-1/Flammability-1/Reactivity-0		

**SECTION 2 - COMPOSITION INFORMATION**

<u>Component</u>	<u>CAS#</u>	<u>PEL/TLV</u>	<u>%</u>
1. Water	7732-18-5	NE	68-74
2. Glycolic Acid	79-14-1	NE	13-16
3. Sulfamic Acid	5329-14-6	NE	3-6
4. Disodium Capryloamphodipropionate	68815-55-4	NE	4-7
5. Ethylene Glycol n-Butyl Ether	111-76-2	20 ppm TLV	1-4
6. Citric Acid	77-92-9	NE	1-4

ND = Not Determined

NE = Not Established

This product is a mixture for which no health hazard data exist. The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do the components that constitute at least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of the individual components may be altered by including them in a mixture. Components of this product that are listed are present in quantities as defined in OSHA 29 CFR 1910.1200

**REGULATORY INFORMATION**

**FEDERAL/NATIONAL:**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986, as amended, and of 40 CFR 372 (for SARA 313): Glycolic Acid, Glycol Ethers

CERCLA requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product which would require reporting under this statute are: Glycolic Acid

**C L R - CALCIUM LIME & RUST REMOVER  
MATERIAL SAFETY DATA SHEET**

(Regulatory Information continued)

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning (SARA Title III Sections 302 & 304):

Glycol Ethers

SARA Title III Sections 311 and 312:

Delayed Hazard:	No
Fire Hazard:	No
Immediate Health Hazard:	Yes (irritant)
Reactive Hazard:	No
Sudden Release or Pressure Hazard:	No

National VOC Emissions Standards for Consumer Products: (40 CFR Parts 9 & 59)  
Category: Non Applicable

**STATE/LOCAL:**

New Jersey: NJ Hazardous Substance = or > 1.0%: Ethylene Glycol n-Butyl Ether  
Pennsylvania: PA Hazardous Substance = or > 1.0%: Ethylene Glycol n-Butyl Ether  
California:  
Prop. 65: Not Listed  
Cal Air Resources Board Classification: Not listed

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**SECTION 3 - PHYSICAL DATA**

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<b>Boiling point:</b>	100° C	<b>Specific Gravity:</b>	1.07 – 1.08
<b>Vapor Pressure:</b>	ND	<b>Percent Volatiles:</b>	80.3%
<b>Vapor Density:</b>	ND	<b>Evaporation Rate:</b>	< 1
<b>pH:</b>	.7 - .9 (n-ethyl acetate=1)		
<b>Solubility in Water:</b>	Yes	<b>Biodegradability:</b>	Yes
<b>Appearance, Color &amp; Odor:</b>	Clear, green colored liquid, acidic aroma		

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**SECTION 4 - FIRE AND EXPLOSION DATA**

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**Flash Point:** <130° C (Method: TCC)  
**Extinguishing Media:** Water, Carbon Dioxide, Dry Chemical or Foam  
**Special Fire Fighting Procedures:** None  
**Unusual Fire & Explosion Hazards:** None Expected

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**SECTION 5 - HEALTH HAZARD DATA**

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**EFFECTS OF OVEREXPOSURE:**

**Eyes:** Can cause eye corrosion with ulceration  
**Skin:** May cause irritation with discomfort or rash, prolonged skin contact may cause ulceration  
**Inhalation:** Excessive inhalation may cause irritation of the respiratory passages  
**Ingestion:** May cause irritation of the gastrointestinal tract with abdominal pain, nausea, vomiting and diarrhea and corrosion of the mucous membranes.

**C L R - CALCIUM LIME & RUST REMOVER  
MATERIAL SAFETY DATA SHEET**

**EMERGENCY FIRST AID PROCEDURES:**

**Eye Contact:** Immediately flush with water for at least 15 minutes. Contact physician.

**Skin Contact:** Immediately flush with water for at least 15 minutes. Contact physician.

**Inhalation:** Remove to fresh air immediately. If not breathing give artificial respiration. Contact physician.

**Ingestion:** DO NOT INDUCE VOMITING. Give large quantities of water. Contact physician.

**Medical Conditions Aggravated by Exposure:** None Expected.

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**SECTION 6 - REACTIVITY DATA**

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**Stability:** Stable

**Incompatibility:** Strong bases

**Hazardous Decomposition Products:** Will not decompose, thermal decomposition products may include toxic oxides or carbon.

**Hazardous Polymerization:** Will Not Occur

---

**SECTION 7 - SPILL OR LEAK PROCEDURES**

---

**Steps to be Taken in Case Material is Released or Spilled:** No special clean up is necessary for small (less than 1 gallon) spills. Rinse area with water. For larger spills, dam the spill and adsorb material with earth, sand or similar inert material. May be carefully neutralized with lime or soda ash. Place adsorbed material in suitable containers and discard solid waste in accordance with federal, state and local regulations. After removal of the contaminated adsorbent, flush spill area with water.

---

**SECTION 8 - SPECIAL PROTECTION**

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**Respiratory Protection:** Not required during normal usage.

**Ventilation:** General room ventilation is normally adequate.

**Protective Gloves:** Wear plastic or rubber gloves.

**Eye Protection:** Not required during normal usage.

**Other Protective Equipment:** None required during normal usage

---

**SECTION 9 - SPECIAL PRECAUTIONS OR COMMENTS**

---

**Precautions to be Taken in Handling & Storing:** Avoid exposure to excessive heat and prevent from freezing.

**Other Precautions:** None required.

---

**Revision Date: March 2001**

**Prepared by: F. J. Goldberg**

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## SAFETY DATA SHEET

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### 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Product Name** CLR® CALCIUM, LIME & RUST REMOVER

**Restrictions on Use** Incompatible with strong oxidizing agents, metals (except stainless steel, chrome), acids, bases, and bleach.

**Product Use** Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces  
Retail Package: (14, 28, 42, 128 fl. oz.)

**Manufacturer:** Jelmar, LLC  
**Address:** 5550 W. Touhy Ave.  
Skokie, IL 60077 USA  
1(847) 675-8400

**Emergency Phone Number:** 1(800) 323-5497 (USA) 8:30 A.M. – 4:30 P.M. CST Monday – Friday

**Emergency 24- hour Contact:** Chemtrec 1(800) 424-9300

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### 2 – HAZARDS IDENTIFICATION

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**COMPLIES WITH 29CFR 1900.1200 DATED FEBRUARY 2013**



#### WARNING

ACUTE EYE IRRITATION (Category 2A)  
ACUTE DERMAL IRRITATION (Category 4)

#### HAZARD NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable

#### OTHER INFORMATION

No information available

DO NOT get in eyes, on skin, or clothing.

DO NOT mix with bleach or other household chemicals; harmful fumes may result.

DO NOT ingest.

DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use.

#### KEEP OUT OF REACH OF CHILDREN

#### Hazard statement(s)

Causes eye irritation.

May cause mild skin irritation.



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### Precautionary statement (s)

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.

Wash skin thoroughly after handling.

If skin irritation or rash occurs: Get medical advice/attention.

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

Wear protective gloves.

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

IF ON SKIN: Wash with plenty of soap and water.

Avoid breathing fumes.

---

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Lactic Acid	79-33-4	YES	5.00-18.00
2. Lauramine Oxide	1643-20-5	YES	1.50-7.50

The exact percentages (concentration) of mixture has been withheld as a trade secret in accordance to paragraph (i) of §1910.1200.

---

### SECTION 4 – FIRST AID MEASURES

**EYE CONTACT:** In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. If irritation persists, get medical attention.

**SKIN CONTACT:** Can be irritating to skin, prolonged contact can be more severe, no adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. If irritation persists get medical attention.

**INHALATION:** Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** DO NOT induce vomiting. If fully conscious, drink 16 ounces of water followed with milk. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest.

---

### SECTION 5 – FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Not flammable. Use appropriate media for area. Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.

**FIRE FIGHTING METHODS:** Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

**FIRE AND EXPLOSION HAZARDS:** None known.

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### SECTION 6 – ACCIDENTAL RELEASES MEASURES

**Steps to be taken in Case Material is Released or Spilled:** Avoid contact with skin and eyes

**Small Spill:** No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

**Large Spill:** Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place



## SAFETY DATA SHEET

in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters.

### SECTION 7 – HANDLING AND STORAGE

**HANDLING and STORAGE:** Avoid contact with eyes, skin, or clothing. May be harmful if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hands thoroughly after use. Consumer size containers (28, 42 fluid ounces and gallon containers) should be rinsed and recycled. Store in cool well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original containers in a secure area away from children and pets.

**DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.**

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

<u>COMPONENT</u>	<u>OSHA</u>		<u>ACGIH</u>	
	<u>PEL</u>	<u>STEL/C</u>	<u>TWA</u>	<u>STEL/C</u>
1. Lactic Acid	N.E.	N.E.	N.E.	N.E.
2. Lauramine Oxide	N.E.	N.E.	N.E.	N.E.

**VENTILATION REQUIREMENT:** Avoid prolonged breathing of mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

**RESPIRATORY PROTECTION:** None required during normal household use. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

**EYE PROTECTION:** Not required during normal household usage. Do not wear contact lenses. Emergency responders should wear full eye and face protection.

**SKIN PROTECTION:** Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

**OTHER PROTECTION:** Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after use or handling.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Crystal clear, lime green liquid	<b>Flammability:</b>	Not Flammable
<b>Odor:</b> Slightly acidic	<b>Upper/Lower Flammability</b>	N.A.
<b>Odor Threshold:</b> N.D.	<b>Vapor Pressure:</b>	N.D.
<b>pH: @20°C</b> 2.10-2.30	<b>Vapor Density (mm Hg):</b>	N.D.
<b>Melting Point:</b> N.D.	<b>Relative Density @20°C:</b>	1.040 – 1.060
<b>Freezing Point:</b> N.D.	<b>Solubility in water:</b>	100%
<b>Boiling Point:</b> 99°C / 210°F	<b>Partition Coefficient;</b>	N.D.
<b>Boiling Point Range:</b> N.A.	<b>n-octanol/water</b>	
<b>Flash Point:</b> None	<b>Auto Ignition Temperature:</b>	N.A.
<b>Evaporation Rate:</b> N.D.	<b>Decomposition Temperature:</b>	N.A.
	<b>Viscosity:</b>	N.D.

### SECTION 10 – STABILITY AND REACTIVITY

**REACTIVITY:** N.A.

**CHEMICAL STABILITY:** Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** N.D.

**CONDITIONS TO AVOID:** Avoid elevated temperatures.



## SAFETY DATA SHEET

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, metals (except stainless steel and chrome), bleach, acids, and bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides. In the event of fire: see Section 5.

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### SECTION 11 – TOXICOLOGICAL INFORMATION

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**Routes of Exposure** Eyes, Skin, Inhalation, Ingestion.

**Eyes** Irritant: avoid eye contact. Effects may vary depending on length of exposure, and/or solution concentration.

**Skin** Mild Irritant. Prolonged contact may cause dermatitis and itching.

**Inhalation** No adverse effects expected under typical use conditions.

**Ingestion** Oral burns, vomiting, and gastrointestinal disturbance.

**LD<sub>50</sub> ACUTE EYE IRRITATION:** GHS Toxicity Category 2A

**LD<sub>50</sub> ACUTE DERMAL IRRITATION – RABBITS:** GHS Toxicity Category 4 – Mild Skin Irritation

**LD<sub>50</sub> ACUTE ORAL TOXICITY – RATS:** GHS Toxicity >5,000 mg/kg

**LD<sub>50</sub> ACUTE DERMAL TOXICITY – RABBITS:** GHS Toxicity >5,000 mg/kg

**LD<sub>50</sub> ACUTE INHALATION TOXICITY – RATS:** GHS Toxicity Category 4

This product does not contain any substances that are considered carcinogenic by the National Toxicology Program (NTP) Report on Carcinogens and have not been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs or found to be potential carcinogens by OSHA.

**Reproductive Toxicity:** N.A.

**Specific Target Organ Toxicity – Single Exposure:** N.A.

**Specific Organ Toxicity – Repeated Dose:** N. A.

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### SECTION 12- ECOLOGICAL INFORMATION

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**L- (+)-LACTIC ACID:**

**Ecotoxicity**

**Toxicity to Algae:** EC50/Algae >2.8 g/L 72h *Pseudokirchnerella subcapitata*.  
EC50/Algae 3.5 g/L 70h *Pseudokirchnerella subcapitata*.

**Toxicity to Fish:** LC50: 130 mg/L 96h *Oncorhynchus mykiss*  
LC50: 320 mg/L 96h *Danio rerio*

**Toxicity to Micro-organisms:** LC50>100 mg/L 3h

**Toxicity to daphnia and other aquatic vertebrates:** EC50 130 mg/L 48h *Daphnia magna*  
EC50 250 mg/L 48h *Daphnia magna*



## SAFETY DATA SHEET

### Persistence / degradability

Readily biodegradable.

**Bioaccumulative Potential:** Does not bioaccumulate.

<u>Chemical Name</u>	<u>Log Pow</u>	<u>Bioconcentration factor (BCF)</u>
L-(+)-Lactic Acid	-0.62	

**Mobility in soil** No information available.

**PBT and vPvB assessment** This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**Other Adverse Effects** No information available.

### LAURAMINE OXIDE:

**Ecotoxicity:** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
Acute		
Algae	EC50 Algae	0.19 mg/l, 72 hours
Crustacea	EC50 Daphnia	3.1 mg/l, 48 hours
Fish	LC50 Fish	2.67 mg/l, 96 hours

**Persistence and degradability:** Expected to be readily biodegradable.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

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### SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Rinse empty containers and recycle. Dispose of unused product in a permitted hazardous waste management facility following all local, state, and federal regulations. Follow label warnings, since containers may retain some residue of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

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### SECTION 14 – TRANSPORTATION INFORMATION

**UN Number:** N.A.

**UN Proper Shipping Name:** N.A.

**DOT (Department of Transportation Proper Shipping Name):** Not regulated by DOT.

**Packaging Group:** N.A.

**TDG Classification:** Not Regulated

**IMDG Classification:** Not Regulated

**IATA Classification:** Passenger – Not Regulated



## SAFETY DATA SHEET

**WHIMS (Canada):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR.

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### SECTION 15 – REGULATORY INFORMATION

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**FEDERAL REGULATIONS:**

**TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**SARA TITLE III SECTION 311/312 CATEGORY:**

IMMEDIATE (ACUTE) HEALTH HAZARD:	YES
DELAYED (CHRONIC) HEALTH HAZARD:	NO
FIRE HAZARD:	NO
SUDDEN RELEASE OF PRESSURE:	NO
REACTIVE HAZARD:	NO

**SARA SECTIONS 302/304/313/HAP:** NO

**INTERNATIONAL CHEMICAL INVENTORY STATUS:**

EUROPEAN UNION (EINECS)	YES
JAPAN (METI)	YES
AUSTRALIA (ACIS)	YES
KOREA (KECL)	YES
CANADA (DSL)	YES
CANADA (NDSL)	NO
PHILIPPINES	YES

**STATES RIGHT TO KNOW:** California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. Complies with listed States Right to Know Acts.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

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### SECTION 16 – OTHER INFORMATION

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**Precautions to be taken in Handling and Storing:** Avoid exposure to excess heat, and prevent from freezing.

**NFPA:** 1, 0, 0. None

**Total VOC (wt. %):** 0% - does not include any CARB applicable exemptions (Volatile Organic Compounds)/California Air Resources board

**CLR CHEMICAL FATE INFORMATION:** 28-day biodegradation. The matter is readily biodegradable. OECD 301D

**Other Precautions:** None required.



## SAFETY DATA SHEET

<b>SDS ABBREVIATIONS:</b>	N. A.:	Not Applicable
	N. D.:	Not Determined
	N.E.:	Not Established
	C:	Ceiling Limit
	HAP:	Hazardous Air Pollutant
	VOC:	Volatile Organic Compound

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### NEW LOGO

**R. A. Gaudreault**

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# Material Safety Data Sheet

Issuing date 13-Feb-2012

Revision Date 10-Feb-2014

Version 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	<b>Comet® Powders (all fragrance variations)</b>
<b>Recommended Use</b>	Household Cleanser Consumer Goods
<b>Synonyms</b>	Comet® Powder - Pine Comet® Powder - Lemon Comet® Powder - Lavender Comet® Powder - Unspecified Promotional Fragrances
<b>Company Emergency Phone Number</b>	During standard business hours (EST): 1-800-926-9441 Nights and weekends, call Poison Control Center: 1-800-222-1222

## 2. HAZARDS IDENTIFICATION

**CAUTION!**

### Emergency Overview

Keep out of the reach of children  
Irritating to eyes, respiratory system and skin

**Appearance** powder

**Physical State @20°C** solid.

**Odor** various

### Potential Health Effects

**Principle Routes of Exposure**

Skin contact; Inhalation

### **Acute toxicity**

**Eyes**

Causes moderate eye irritation

**Skin**

Causes moderate skin irritation

**Inhalation**

May cause irritation of the respiratory tract

**Ingestion**

Ingestion may cause irritation to mucous membranes

### **Chronic Effects**

This product contains crystalline silica (quartz). Inhalation of crystalline silica above safe exposure limits can cause respiratory system injury and potentially cancer.

### **Aggravated Medical Conditions**

None known.

### **Interactions with Other Chemicals**

Do not mix with other household chemicals. Do not mix with other chemicals containing bleach as hazardous and poisonous gases may be released

### **Environmental hazard**

See Section 12 for additional Ecological Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This MSDS represents the component and hazards of an entire line of products. Each individual product may not contain all the ingredients listed below.

**Common Name** Household Cleanser.  
**Chemical Family** Soaps and Detergents.

Chemical Name	CAS-No	Weight %
Limestone	1317-65-3	60-100
Soda Ash	497-19-8	5-10
Calcium Hydroxide	1305-62-0	1-5
Dodecylbenzenesulfonic Acid	27176-87-0	1-5
Water	7732-18-5	0.1-1
Trichloro-S-triazinetrione	87-90-1	0.1-1
Fragrance	Proprietary	0.1-1
Phthalo Green	1328-53-6	<0.1
Phthalo Blue	147-14-8	<0.1

### 4. FIRST AID MEASURES

<b>General advice</b>	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
<b>Eye contact</b>	In case of accidental contact, immediately flush eyes with plenty of water for 20 minutes. Remove any contact lenses after first 5 minutes and continue to flush eyes with water. If irritation develops or persists, contact a doctor.
<b>Skin contact</b>	In case of accidental contact, wash skin thoroughly with water. Remove contaminated clothing and continue to wash with water. If irritation develops or persists, contact a doctor.
<b>Inhalation</b>	Remove victim to fresh air. If not breathing, give artificial respiration. Give oxygen if breathing is difficult. Get Professional Medical attention immediately.
<b>Ingestion</b>	Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away. Have person sip a glass of water if able to swallow.
<b>Notes to physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash point</b>	Not combustible.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b><u>Explosion Data</u></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>	Health Hazard 1	Flammability 0	Stability 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal protection b

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with the skin and the eyes Ensure adequate ventilation
<b>Environmental precautions</b>	Try to prevent the material from entering drains or water courses
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers

## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Technical measures/Storage conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product is not listed as a carcinogen by the IARC, NTP or OSHA. This product contains less than 2% crystalline silica (CAS RN 14808-60-7) which is listed as Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone 1317-65-3		TWA: 15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust

<b>Engineering Measures</b>	Ensure adequate ventilation
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	No special protective equipment required.
<b>Skin and body protection</b>	No special protective equipment required.
<b>Respiratory protection</b>	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.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Powder.	<b>Odor</b>	Various
<b>Odor Threshold</b>	No information available	<b>Physical State @20°C</b>	Solid
<b>pH</b>	12	<b>Method</b>	Not applicable
<b>Flash point</b>	Not combustible.	<b>Decomposition Temperature VALUE</b>	No information available
<b>Autoignition temperature</b>	No information available	<b>Melting point/range</b>	No information available
<b>Boiling point/boiling range</b>	No information available	<b>Flammability Limits in Air</b>	Not flammable
<b>Freezing Point</b>	No information available	<b>Molecular Weight</b>	No information available
<b>Explosion Limits</b>	No information available	<b>solubility</b>	Insoluble in water.
<b>Specific Gravity</b>	Not applicable	<b>Vapor Pressure @20°C (kPa)</b>	No information available
<b>Water Solubility VALUE</b>	No information available	<b>Explosive properties</b>	No information available
<b>Evaporation Rate VALUE</b>	No information available	<b>VOC Content</b>	0%
<b>Vapor Density VALUE</b>	No information available	<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Oxidizing Properties</b>	Strong oxidizing agents		
<b>Viscosity, dynamic VALUE</b>	No information available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions Hazardous polymerization does not occur
<b>Incompatible products</b>	Ammonia and Acids; Organic material; Strong reducing agents; Amines
<b>Conditions to Avoid</b>	Heating can release hazardous gases
<b>Hazardous Decomposition Products</b>	Chlorine gas; Nitrogen trichloride; Nitrous oxides; Cyanates
<b>Hazardous Reactions</b>	No information available
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Product Information</b>	Product does not present an acute toxicity hazard under normal conditions of use
<b>Product Safety Profile</b>	Product is safe for its intended use based on the formulation, testing results, and the long history of safe consumer use.
<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Eye contact</b>	Moderately irritating to the eyes
<b>Skin contact</b>	May cause irritation
<b>Ingestion</b>	May be harmful if swallowed

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Soda Ash	4090 mg/kg ( Rat )		
Trichloro-S-triazinetrione	406 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	50 mg/L ( Rat ) 1 h
Water	90 mL/kg ( Rat )		

### Chronic toxicity

**Chronic toxicity** This product contains crystalline silica (quartz). Inhalation of crystalline silica above safe exposure limits can cause respiratory system injury and potentially cancer.

**Target Organ Effects** None known.

## 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	Toxicity to daphnia and other aquatic invertebrates
Soda Ash	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50
Trichloro-S-triazinetrione		0.06-0.11: 96 h Oncorhynchus mykiss mg/L LC50 static 0.13-0.5: 96 h Lepomis macrochirus mg/L LC50 static		0.16 - 0.18: 48 h Daphnia magna mg/L EC50 Static 0.21: 48 h Daphnia magna mg/L EC50

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	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
<b>Contaminated packaging</b>	Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Soda Ash	Corrosive
Trichloro-S-triazinetrione	Toxic Ignitable

### 14. TRANSPORT INFORMATION

<b><u>Dot</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>ICAO/IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR/RID</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

### 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** All components are listed on the TSCA Inventory.

**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 Commercial Chemical Substances/EU 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

#### **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**

<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 chemicals known to the State of California to cause cancer or reproductive toxicity. However, those chemicals, as present in the finished product, are below the Proposition 65 Safe Harbor Limits.

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

This product may contain substances regulated by state right-to-know regulations.

**International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Limestone		Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>

## 16. OTHER INFORMATION

<b>Prepared By</b>	Prestige Brands, Inc. 660 White Plains Rd., Tarrytown, NY 10591
<b>Issuing date</b>	13-Feb-2012
<b>Revision Date</b>	10-Feb-2014
<b>Revision Note</b>	Expanded to include all fragrance variations

**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



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

**Synonyms:**

Diesel Exhaust Fluid; DEF

## Section 1 - Product and Company Identification

**Supplier Information**

PAPCO, Inc.  
4920 Southern Blvd.  
Virginia Beach, VA 23462  
Corporate Phone: 757-499-5977

**Emergency Health & Safety:**  
800-424-9300 CHEMTREC

**Material Name**

Types

**Synonyms**

Diesel Exhaust Fluid; DEF

**Intended Use**

Fuel

## Section 2 - Hazards Identification

**EMERGENCY OVERVIEW**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Effects of overexposure may include irritation of the nose, throat and digestive tract, headaches, coughing, nausea, vomiting and transient disorientation.

Lowest Known LD50 (Oral) for Urea:

Cattle 510 mg/kg  
Mouse 11,500 – 13,000 mg/kg  
Rabbit 8,200 mg/kg  
Rat 14,300 – 15,000 mg/kg

Lowest Known LD50 (Skin):

Not known

Carcinogenicity:

Not identified as a carcinogen

National Toxicology Program:

Not identified as a carcinogen

International Agency for Research on Cancer:

Not identified as a carcinogen

OSHA:

Not identified as a carcinogen

**HAZARD RATING SYSTEM**

<b>NPFA:</b>	<b>HEALTH: 1</b>	<b>FLAMMABILITY: 0</b>	<b>REACTIVITY: 0</b>
<b>HMIS:</b>	<b>HEALTH: 1</b>	<b>FLAMMABILITY: 0</b>	<b>REACTIVITY: 0</b>

**PERSONAL PROTECTION:** B (safety glasses and gloves)

KEY: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 2 - Hazards Identification - continued

### Potential Health Effects

**EYE:** Contact may cause mild eye irritation, including stinging, watering and redness.

**SKIN:** Contact may cause mild skin irritation, including redness and burning. No harmful effects from skin absorption have been reported.

**INHALATION (Breathing):** No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation. Symptoms include sore throat, sneezing, coughing and shortness of breath.

**INGESTION (Swallowing):** If ingestion occurs, symptoms include sore throat, mouth and stomach irritation. Larger ingestion amounts beyond listed exposure limits may cause defects to the central nervous system (e.g. dizziness and headache).

**Cancer:** Not identified as a carcinogen

**Target Organs:** Eyes, skin, respiratory system, digestive, central nervous system.

**Developmental:** Inadequate evidence available for this material.

**Pre-Existing Medical Conditions:** Aggravation of these conditions may occur if overexposure is experienced.

## Section 3 - Composition / Information on Ingredients

CAS #	Component	Percent by Wt.	TLV (ACGIH)	
			STEL	TWA
57-13-6	Urea	32.5	Not established	10 mg/m <sup>3</sup> (AIHA WEEL)
7732-18-5	Water	67.5	N/A	N/A



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 4 - First Aid Measures

### Ensure physician has access to this MSDS

Notes to Physician: Treat symptomatically and monitor.

### Routes of Entry: Inhalation, Skin, Ingestion

Signs and Symptoms of Exposure: Effects of overexposure may include irritation of the nose, throat and digestive tract, headaches, coughing, nausea, vomiting and transient disorientation.

### First Aid: Eyes

If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

### First Aid: Skin

Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and warm water. If irritation or redness develops and persists, seek medical attention.

### First Aid: Ingestion

Do NOT induce vomiting. First aid is not normally required; however, if swallowed and symptoms such as dizziness and headache develop, seek medical attention. Never give anything by mouth to an unconscious person.

### First Aid: Inhalation

If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

## Section 5 - Fire Fighting Measures

### General Fire Hazards

**Flammable Properties:** Product is not flammable. Closed containers may rupture with exposure to excess heat or flame due to internal container pressure.

Flash Point: None

**Flammability Limits:** Percentage of vapor concentration at which product can ignite in presence of spark:

LEL: No data

UEL: No data

### Hazardous Combustion Products

Closed containers exposed to extreme heat can rupture due to pressure building. Carbon oxides, nitrogen oxides, ammonia, biuret, cyanuric acid and other irritating fumes and smoke.

### Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

### Fire Fighting Equipment/Instructions

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill / release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

### Protective Equipment For Fire Fighters

Firefighters should use proper protective equipment, such as a self-contained breathing apparatus with full face piece operated in positive pressure mode, suitable for the type of fire / environment they are working to contain and extinguish.



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 6 - Accidental Release Measures

### Materials and Methods for Clean-Up

**SMALL SPILL:** Stop leak if without risk. Material free from contamination can be used for its original purpose. Move containers from spill area. Dilute with water and mop up if water-soluble or 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. 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. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### Personal Precautions and Protective Equipment

Wear appropriate protective equipment, including respiratory protection, as conditions warrant. (See Section 8.)

### Environmental Precautions

It is recommended that spilled material is prevented from entering sewers, storm drains or natural watercourses, contain material with a dike or with appropriate absorbent materials such as sand, clay, soil or commercially available absorbent material that is non-combustible and inert. Place reclaimed liquid and absorbent into recovery or salvage drums for disposal (Refer to Section 13 for appropriate disposal). The EPA has no established reportable quantity for spills for this material (Refer to Section 15), secondary containment is not specified.

## Section 7 - Handling and Storage

### Handling Procedures

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not wear contaminated clothing or shoes.

### Storage Procedures

Keep container(s) tightly closed. Do not allow product to come in contact with extreme heat and flame or with strong oxidizers. Use and store this material in cool, dry, well-ventilated areas. Store only in the container with which the product was delivered or in uncontaminated bulk containers. Keep away from any incompatible material such as strong acids or oxidizing agents (e.g. hydrogen peroxide, nitric acid). (See Section 10.) Protect container(s) against physical damage. Keep out of reach of children.



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 8 - Exposure Controls / Personal Protection

### Engineering Measures

Not required during normal vehicle servicing or under normal handling and storage conditions (see Section 7). If current ventilation practices are not adequate to minimize exposure below ACGIH limits, additional ventilation or exhaust systems may be required.

### Personal Protective Equipment: Respiratory

None required during normal vehicle servicing or normal conditions. 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. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Seek advice from respiratory protection specialists.

### Personal Protective Equipment: Hands

None required during normal vehicle servicing or under normal handling and storage conditions (see Section 7). To prevent skin contact, use impermeable gloves. Nitrile, Viton, Butyl.

### Personal Protective Equipment: Eyes

Not required during normal vehicle servicing or under normal handling and storage conditions (see Section 7). If splashing might occur, wear eye protection such as chemical splash goggles.

### Personal Protective Equipment: Other

Not required during normal vehicle servicing or under normal handling and storage conditions (see Section 7). It is recommended that a source of clean water should be available in the work area for flushing eyes and skin if immersion or heavy splashing is expected. Impervious clothing should be worn as needed.

## Section 9 - Physical and Chemical Properties

<b>Appearance:</b>	Colorless, clear liquid
<b>Odor:</b>	Ammonia
<b>Physical State:</b>	Liquid
<b>pH:</b>	9.0 – 10.0
<b>Vapor Pressure (mm of Hg):</b>	Not applicable
<b>Vapor Density (Air=1):</b>	0.6 H <sub>2</sub> O, >1
<b>Boiling Point:</b>	>212°F
<b>Specific Gravity (Water = 1):</b>	1.09
<b>Evaporation Rate:</b>	<1
<b>Crystallization Point:</b>	12°F
<b>Pounds/Gallon:</b>	9.09



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 10 - Chemical Stability and Reactivity Information

### Chemical Stability

Stable under normal conditions of storage and handling.

### Conditions to Avoid

Avoid excessive heat, sparks and open flame. Do not mix with any other chemicals or products.

### Incompatible Products

Avoid contact with strong oxidizing agents such as chlorine (bleach), peroxides, chromates, nitric acid, perchlorates, concentrated oxygen or permanganates. Contact can generate heat, fires, explosions and release toxic fumes (see Section 5). In addition, urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.

### Hazardous Decomposition Products

If involved in a fire, oxides of carbon and nitrogen may be generated; exposure to heat may generate ammonia fumes.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

No identified or known information available on mutagenicity, target organs or developmental toxicity.

### Toxicological data

There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

### Component Analysis - LD50/LC50

#### Urea (57-13-6)

Inhalation LC50 Rat N/Av;

Oral LD50 Rat 8,471 mg/kg;

Dermal LD50 Rabbit 8,200 mg/kg

## Section 12 - Ecological Information

### Environmental Effects:

Readily biodegradable

### Microtox Data:

24 hr. EC50 Daphnia magna straus: >10,000 mg/L

### Freshwater Fish Species Data:

96 hr. LC50 Barillius barna: >9,100mg/L

### Aquatic Ecotoxicity Acute LC50 Test for Urea

Result	Species	Exposure
83,700 to 86,900 ug/L Fresh water	Fish – Rohu Labeo Rohita FRY – 0.8 g	96 hours
65,800 to 70,200 ug/L Fresh water	Fish – Rohu Labeo FRY – 0.8 g	96 hours
22,500 ug/L Fresh water	Fish – Mozambique Tilapia & Tilapia Mossambica	96 hours
16,700 to 19,600 ug/L Fresh water	Fish – Rohu Labeo Rohita Egg	96 hours
90,100 to 93,900 ug/L Fresh water	Fish – Rohu Labeo Rohita – FRY 0.8 g	96 hours
5,000 ug/L Fresh water	Fish – Giant Gourami Colisa Fasciata – Fingerling	96 hours

This product does not show any bioaccumulation phenomena.



# Safety Data Sheet

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Material Name: DEF - Diesel Exhaust Fluid

## Section 13 - Disposal Considerations

### Waste Disposal Instructions

This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use resulting in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material. If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. As a non-hazardous liquid waste, it should be solidified with stabilizing agents such as sand, fly ash, or clay absorbent, so that no free liquid remains before disposal to an industrial waste landfill.

RCRA # Not listed

## Section 14 - Transportation Information

U.S. DEPARTMENT OF TRANSPORTATION (DOT): NOT CONTROLLED UNDER DOT.

ICAO/IATA: NOT CONTROLLED UNDER ICAO/IATA.

IMDG: NOT CONTROLLED UNDER IMDG.

## Section 15 - Regulatory Information

### TSCA:

All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

### EPA (CERCLA) Reportable Quantity:

None. This material is not classified as hazardous under U.S. EPA regulations.

### SARA Title III:

**SARA 302**, Extremely Hazardous Substances, 40 CFR 355: No extremely hazardous substances are in this product.

**SARA 311 and 312**, MSDS Requirements, 40 CFR 370 Hazard Classes: Urea. No hazards resulting from the material as supplied. Under SARA Sections 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 313**: SARA 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

### California Proposition 65:

This material does not contain chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

### Canadian Environmental Protection Act (CEPA) information:

All ingredients listed appear on the Domestic Substances List (DSL).

### WHMIS Information:

This product is not a WHMIS controlled product in Canada. Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.



# Safety Data Sheet

SDS No. 7000

Material Name: DEF - Diesel Exhaust Fluid

## Section 16 - Other Information

### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

# SAFETY DATA SHEET

SAVOGRAN  
DEGREASER

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## 1. Product and Company Identification

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Product Name : DEGREASER  
Product Code : 730N  
Recommended Use: Cleaner

Company Identification:  
SAVOGRAN  
259 LENOX STREET  
PO BOX 130  
NORWOOD, MA 02062-0130  
Information Phone: 781-762-5400  
Emergency Phone: 800-424-9300  
Website Address: [www.savogran.com](http://www.savogran.com)

Synonyms: 10732,10733

## 2. Hazards Identification

---

Classification:  
Eye irritation: Category 2/Skin irritation: Category 2



Label Hazard Statement:  
WARNING: Harmful if swallowed or inhaled. Eye and skin irritant.

Potential Health Effects:

Eye:  
Eye contact can cause severe irritation, redness, tearing, blurred vision and may cause transient injury to cornea.

Skin:  
May cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying, and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion:  
Ingestion can cause severe internal irritation.

Inhalation:  
Vapors are unlikely due to physical properties.

Chronic Overexposure Information:  
NO DATA

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## Teratology and Reproduction Information:

NO DATA

## Aggravation of Pre-Existing Conditions:

Skin contact may aggravate existing skin disease.

## OSHA Hazard Communication Standard:

This product is defined as hazardous by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

---

## 3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
SODIUM METASILICATE EXPOSURE GUIDELINES NOT LISTED	6834-92-0	0% - 5%
ETDA, TETRASODIUM (38%) EXPOSURE GUIDELINES NOT LISTED	64-02-8	0% - 5%

---

## 4. First Aid Measures

### Eyes:

Flood with plenty of water with eye lids held open for at least 15 minutes and get medical attention promptly.

### Skin:

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

### Ingestion:

Do NOT induce vomiting. If conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

### Inhalation:

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention.

### Note to Physicians:

NO DATA

---

## 5. Fire Fighting Measures

### Flammable Properties:

None

### Hazardous Combustion Products:

May form carbon dioxide and carbon monoxide.

### Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire.

### Firefighting Procedures:

# SAFETY DATA SHEET

SAVOGRAN  
DEGREASER

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Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode. Do not release runoff from fire control methods to sewers or waterways.

## 6. Accidental Release Measures

---

Small Spill:

No special precautions.

Large Spill:

No special precautions.

Environmental Precautions:

No special precautions.

Methods/Materials for Containment and Cleaning Up:

Use normal clean up procedures. No special precautions.

## 7. Handling and Storage

---

Handling:

Wash thoroughly after handling.

Storage:

Keep container tightly closed.

## 8. Exposure Controls/Personal Protection

---

Airborne Exposure Limits: See Section 3

Engineering Controls:

None required when used as intended.

Personal Protective Equipment:

Respiratory Protection:

None required when used as intended.

Skin Protection:

Use impervious rubber gloves.

Eye Protection:

Chemical goggles or safety glasses with side shield.

## 9. Physical and Chemical Properties

---

Boiling Point: 212F

Melting Point: NO DATA

Freezing Point: NO DATA

Vapor Pressure: Unknown

Vapor Density: Heavier than air

Solubility in Water: Appreciable

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Evaporation Rate: LESS THAN ETHER  
Flash Point: NONE Method: NO DATA  
Lower explosive limit: NO DATA  
Upper explosive limit: NO DATA  
Autoignition Temperature: NO DATA  
Specific Gravity: 1.015  
pH(1% in H<sub>2</sub>O): 11-12  
Odor: None  
Appearance: Clear to yellow liquid

## 10. Stability and Reactivity

---

Chemical Stability (Conditions to Avoid): Stable

Incompatibility:  
Strong acids (e.g. HCL), Strong oxidizing agents (e.g. permanganates).

Hazardous Decomposition Products:  
Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur.

## 11. Toxicological Information

---

Acute:  
This product has not been tested as a whole.

Subchronic:  
This product has not been tested as a whole.

Chronic/Carcinogenicity:  
Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

Routes of Exposure:  
Ingestion

## 12. Ecological Information

---

Environmental Fate: This product has no known adverse effect on ecology.

## 13. Disposal Considerations

---

Waste Disposal Method:  
Flush residue down drain with plenty of water.

## 14. Transport Information

---

Land Transport (DOT):  
Not Regulated

# SAFETY DATA SHEET

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## 15. Regulatory Information

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### U.S. Federal Regulations:

TSCA: The intentional ingredients of this product are listed.

OSHA: The intentional regulated ingredients of this product are listed.

CERCLA: SARA Hazard Category: None

Section 313: Not Listed

Reportable Quantity: None of the chemicals in this material have an RQ

### State Regulations:

NO DATA

Volatile Organic Compounds: None

---

## 16. Other Information:

---

NFPA Ratings: 1,0,0

### Manufacturer Disclaimer:

Judgement of potential hazards of this product is based on information available about individual components listed under section 3 - Ingredients. Direct testing of mixture has not been done. Information given herein is believed to be accurate and is given in good faith. However, no warranty either expressed or implied is made. It is strongly suggested that users confirm in advance of need that the information is current and applicable to their situations.

# 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-B0-B5 DF2; CALCO ULS TC-B0-B5 DF2 DYD; 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-B0-B5 DF2; CALCO ULS TX-B0-B5 DF2 DYD; 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-B0-B5 DF2; CT ULS SPECIAL DF2 DYED; CT ULS TC-B0-B5 DF2; 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-B0-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-B0-B5 DF2; ULS TC-B0-B5 DF2; ULS TC-B0-B5 DF2 DYED; 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-B0-B5 DF2; ULS TX-B0-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

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)

## 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: Call a poison center or doctor/physician if you feel unwell. 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. 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. IF exposed or concerned: Get medical advice/attention.

**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
Total sulfur	Mixture	0 - 5000 ppm

Diesel Fuel No. 2	68476-34-6	95 - 100 %volume
Renewable Diesel	Mixture	0 - 20 %volume
Fatty Acid Methyl Esters (FAME)	Mixture	0 - 5 %volume
Naphthalene	91-20-3	0.02 - < 0.2 %volume

#### 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:** May be harmful if inhaled. 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 See Section 11 for additional information. Risk depends on duration and level of exposure.

##### 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 (CO<sub>2</sub>) 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	Form	TWA	STEL	Ceiling	Notation
Diesel Fuel No. 2	ACGIH	Inhalable fraction and vapor	100 mg/m3	--	--	Skin total hydrocarbon
Diesel Fuel No. 2	ACGIH	Vapor	100 mg/m3	--	--	Skin
Diesel Fuel No. 2	ACGIH	Vapor and aerosol	100 mg/m3	--	--	Skin total hydrocarbon
Diesel Fuel No. 2	CVX	Vapor and aerosol	100 mg/m3	--	--	Skin total hydrocarbon
Naphthalene	ACGIH	Vapor	10 ppm	15 ppm	--	A4 Skin
Naphthalene	ACGIH	--	10 ppm	--	--	Skin
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 chromatid 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 chromatid 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.

## 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:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C but <= 60 deg C: UN1202, GAS OIL, 3, III; OPTIONAL DISCLOSURE: UN1202, GAS OIL, 3, III, MARINE POLLUTANT (DIESEL FUEL) Optional disclosure per 49 CFR when Flash Point (PM Closed Cup) >= 38 deg C < 93 deg C per 49 173.150 (f): UN1202, GAS OIL, COMBUSTIBLE LIQUID, III; NON-BULK PACKAGES ARE EXEMPTED FROM THE PROVISIONS OF 49 CFR IN USA JURISDICTIONS Optional disclosure as a GHS Environmental Hazard/Marine Pollutant when Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

**IMO/IMDG Shipping Description:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C, <= 60 deg C: UN1202, GAS OIL, 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL); OPTIONAL DISCLOSURE: UN1268, PETROLEUM DISTILLATES, N.O.S. (DIESEL FUEL), 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE

POLLUTANT (DIESEL FUEL) For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

**ICAO/IATA Shipping Description:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >= 23 deg C, <= 60 deg C: UN1202, GAS OIL, 3, III For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:**

Not applicable

## SECTION 15 REGULATORY INFORMATION

### EPCRA 311/312 CATEGORIES:

Acute toxicity (any route of exposure)  
Aspiration Hazard  
Carcinogenicity  
Flammable (gases, aerosols, liquids, or solids)  
Skin Corrosion or Irritation  
Specific target organ toxicity (single or repeated exposure)

### 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.

Diesel Fuel No. 2	07
Naphthalene	01-2B, 02, 04, 06

### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: DSL (Canada), 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, 270006990, 270007990, 270008990, 270009990, 270010990, 270013990, 270014990, 270015990, 270016990,

270017990, 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 03 - Composition information was modified.

SECTION 04 - Immediate Health Effects - Inhalation information was modified.

SECTION 07 - Precautionary Measures information was modified.

SECTION 08 - General Considerations information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 09 - Physical/Chemical Properties information was modified.

SECTION 11 - Additional Toxicology Information information was modified.

SECTION 12 - Ecological Information information was modified.

SECTION 15 - Chemical Inventories information was modified.

SECTION 15 - New Jersey Right To Know information was modified.

SECTION 15 - Regulatory Information information was deleted.

SECTION 15 - SARA 311 EPCRA Score information was modified.

**Revision Date:** April 16, 2020

**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

Issue Date: 22-Oct-2012

Revision Date: 18-May-2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Do it Best Bar & Chain Oil

### Other means of identification

**SDS #** DIB-001

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

**Recommended Use** Bar and chain lubricant

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

#### **Supplier Address**

Warren Oil Company, LLC  
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

## 2. HAZARDS IDENTIFICATION

**Appearance** Light amber, viscous liquid      **Physical State** Viscous liquid      **Odor** Typical 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-%
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	90-100

\*\*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

**Eye Contact** Flush eyes with large amounts of water, for at least 15 minutes, until irritation subsides. If irritation persists get medical attention.

<b>Skin Contact</b>	No treatment is necessary under ordinary circumstances. Remove contaminated clothing and shoes. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should seek immediate medical attention.
<b>Inhalation</b>	Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
<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**

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

**Unsuitable Extinguishing Media** While carbon dioxide and inert will extinguish the fire, they can also displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.

**Specific Hazards Arising from the Chemical**

This material can burn but will not readily ignite. This material will release vapors when heated above the flashpoint temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flashpoint. Dense smoke may be generated while burning.

**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Aldehydes. Ketones. Combustion products of sulfur and nitrogen.

**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** Store at ambient conditions. Store at atmospheric pressure. Keep container tightly closed. Store in a cool, well-ventilated place. Keep away from heat, sparks, and flame. Empty containers retain product residues.

**Incompatible Materials** This product may react with 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: 5mg/m <sup>3</sup> (oil mist) STEL: none estab.	TWA: none estab. STEL: none estab.

**Appropriate engineering controls**

**Engineering Controls** Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. If product is heated above 70 C (155 F) in the presence of water, hydrogen sulfide vapors may be released. Ventilation should be sufficient to keep hydrogen sulfide levels below recommended exposure limits. Eye wash fountains are recommended.

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

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

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

**Respiratory Protection** If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

**General Hygiene Considerations** Use good hygiene when handling petroleum product. Launder contaminated clothing before reuse. Excessive misting may cause slippery floors - wear appropriate footwear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Viscous liquid	<b>Odor</b>	Typical petroleum
<b>Appearance</b>	Light amber, viscous liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Light amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not available	
Melting Point/Freezing Point	Not available	
Boiling Point/Boiling Range	Not available	
Flash Point	202 °C / 396 °F	ASTM D-92
Evaporation Rate	Not available	
Flammability (Solid, Gas)	Liquid-Not applicable	
Upper Flammability Limits	Not determined	

<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	Not available	
<b>Vapor Density</b>	>1	(Air=1)
<b>Specific Gravity</b>	0.87	
<b>Water Solubility</b>	insoluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not available	
<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.

#### **Hazardous Polymerization**

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

### Conditions to Avoid

Avoid formation of mists. Extreme heat, open flames or sparks. Keep separated from incompatible substances.

### Incompatible Materials

This product may react with strong oxidizing agents.

### Hazardous Decomposition Products

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

### Component Information

#### 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
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5		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
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	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: 22-Oct-2012  
 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**

## Material Safety Data Sheet

### Polyisocyanurate Foam Insulation

MSDS #: 3012

#### 1. Product and company identification

**Hazard Label** CAUTION

Johns Manville  
Roofing Systems  
717 17th Street  
Denver, CO 80202 US

Telephone: 303-978-2000 8:00AM-5:00PM M-F  
Internet: <http://www.jm.com>  
Email: [productsafety@jm.com](mailto:productsafety@jm.com)  
Emergency phone: 1-800-424-9300 (Chemtrec, in English)

**Trade name:** DuraFoam®, ENRGY 3®, ENRGY 3® Foil Face, ENRGY 3® Plus, ENRGY 3® 25 PSI, ENRGY 3® AGF, Tapered ENRGY 3®, Tapered ENRGY 3® Plus, Fesco® Foam, Tapered Fesco® Foam, Nailboard™, Vented Nailboard™, ENRGY 3® 25 psi 8924, ENRGY 3® 8924, ENRGY 3® 25 PSI Foil Face, DiamondBack® Pre-Cut Cricket, DiamondBack® Pre-Cut Miter, ENRGY 3® FR, Tapered ENRGY 3® FR, ENRGY 3® 25 PSI FR, Tapered ENRGY 3® 25 PSI FR, ENRGY 3® CGF, ENRGY 3® 25 PSI CGF, Tapered ENRGY 3® 25 PSI, Tapered ENRGY 3® AGF, Tapered ENRGY 3® CGF, Tapered ENRGY 3® 25 PSI CGF, ENRGY 3® 25 PSI AGF, Tapered ENRGY 3® 25 PSI AGF

#### 2. Hazards identification

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview**

Keep away from heat, sparks and flame.

**Potential acute health effects**

**Inhalation:** May cause respiratory irritation.

**Ingestion:** Gastrointestinal irritation

**Skin:** May cause skin irritation.

**Eyes:** May cause eye irritation.

**Potential chronic health effects**

**Chronic effects:** Contains material that can cause target organ damage.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

**Fertility effects:** No known significant effects or critical hazards.

**Target organs:** Contains material which causes damage to the following organs: peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea

**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.

### 3. Composition information on ingredients

**Relevant ingredients**

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Polyisocyanurate Foam	-	>=5 - <=90
Wood Fiber Board	-	>=0 - <=90
DuraGlass® 8000 Series Mats	-	>=5 - <=15
Black Facer	-	>=10 - <=50
Foil Kraft Facing	-	>=0 - <=30
Aluminum Foil Facing	-	>=1 - <=20
Coated Glass Facer	-	>=0 - <=30

**Hazardous ingredients**

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Butane, 2-methyl-	78-78-4	>=5 - <10
Cyclopentane	287-92-3	>=5 - <10
Pentane	109-66-0	>=1 - <5

#### 4. First aid measures

**General information:**

No action shall be taken involving any personal risk or without suitable training. If used as directed, first aid measures are generally not necessary.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser. Get medical attention if symptoms occur.

**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 if symptoms occur.

**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 if symptoms occur.

**Notes to physician:** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No action shall be taken involving any personal risk or without suitable training.

#### 5. Fire-fighting measures

**Flammability of the product:** No specific fire or explosion hazard.

**Extinguishing media**

**Suitable:** Use an extinguishing agent suitable for the surrounding fire.

**Not suitable:** None known.

**Fire-fighting measures:** 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.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide

**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.

#### 6. Accidental release measures

**Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions:** Collect spillage.

**Methods for cleaning up**

**Small spill:** Vacuum or sweep up material and place in a designated, labeled waste container. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Take up mechanically.

**Large spill:** Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Take up mechanically.

## 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. Do not ingest. If used and stored as directed, no special protective equipment is necessary.

**Storage:** Store in accordance with local regulations. Keep away from sources of ignition. Observe label precautions.

**Storage Stability:** The product is stable.

## 8. Exposure controls/personal protection

**Consult local authorities for acceptable exposure limits. Exposure limits**

**Butane, 2-methyl-:**

ACGIH TLV(1998-09-01) Notes: 1998 Adoption. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 600 ppm

**Cyclopentane:**

ACGIH TLV(1994-09-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 1,720 mg/m<sup>3</sup>, 600 ppm

NIOSH REL(1994-06-01) Time Weighted Average (TWA), 1,720 mg/m<sup>3</sup>, 600 ppm

OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 1,720 mg/m<sup>3</sup>, 600 ppm

**Pentane:**

NIOSH REL(1994-06-01) Time Weighted Average (TWA), 350 mg/m<sup>3</sup>, 120 ppm

NIOSH REL(1994-06-01) Threshold Limit Value - Ceiling (TLV-C), 1,800 mg/m<sup>3</sup>, 610 ppm

OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 1,800 mg/m<sup>3</sup>, 600 ppm

OSHA PEL 1989(1989-03-01) Short Term Exposure Limit (STEL), 2,250 mg/m<sup>3</sup>, 750 ppm

ACGIH TLV(1998-09-01) Notes: 1998 Adoption. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 600 ppm

As a member of NAIMA, JM subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations. For more information, see: <http://www.naima.org/insulation-knowledge-base/health-and-safety-aspects/product-stewardship-program-for-worker-protection.html>.

**Engineering measures:** No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**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.

#### **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.

**Eyes:** 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.

**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.

## **9. Physical and chemical properties**

**Physical state:** solid

**Flash point:** Not applicable.

**Color:** Yellow., Tan.

**Odor:** practically odorless

**Specific gravity:** 0.03

## 10. Stability and reactivity

**Hazardous reactions:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid:** No specific data.

**Substances to avoid:** No specific data.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Acute toxicity**

**Butane, 2-methyl-:** LC50 Inhalation Mouse: 150 mg/l, 2 h  
LC50 Inhalation Rat: 280 mg/l, 4 h

**Cyclopentane:** LD50 Oral Rat: 11,400 mg/kg  
LD50 Oral Mouse: 12,800 mg/kg

**Pentane:** LD50 Oral Rat: > 2,000 mg/kg  
LC50 Inhalation Rat: 364 mg/l, 4 h  
LD50 Other Mouse: 446 mg/kg

**Conclusion/Summary:** Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man., There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam., However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978)., In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19).

**Conclusion/Summary:** Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man., There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam., However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978)., In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19).

**Classification**

Product/ingredient	ACGIH	IARC	NIOSH	NTP	OSHA	

name						
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Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man. There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam. However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978). In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19). **Assessment carcinogenicity:** No known significant effects or critical hazards.

**Assessment mutagenicity:** No known significant effects or critical hazards.

**Assessment teratogenicity:** No known significant effects or critical hazards.

**Assessment toxicity to reproduction:** No known significant effects or critical hazards.

**Assessment Development Effect:** No known significant effects or critical hazards.

## 12. Ecological information

**Environmental fate:** No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14. Transport information

These products are not classified as dangerous goods according to international transport regulations.

IATA & IMDG: Contact JM Product Stewardship for classification and label.

## 15. Regulatory information

### U.S. Federal regulations

**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed  
**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed  
 Formaldehyde

**Clean Air Act (CAA) 112 accidental release prevention:** The following components are listed:  
 Butane, 2-methyl- Pentane Formaldehyde

**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Listed Pentane Butane, 2-methyl-

**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** Butane, 2-methyl-: Fire hazard - flammable, combustible liquid, pyrophoric Cyclopentane: Fire hazard - flammable, combustible liquid, pyrophoric Pentane: Acu, Fire hazard - flammable, combustible liquid, pyrophoric: Del, Fire hazard - flammable, combustible liquid, pyrophoric

**SARA 311/312 Product Classification:** Delayed (chronic) health hazard.

**State regulations**

**Massachusetts Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**New Jersey Hazardous Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**Pennsylvania RTK Hazardous Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**California Prop. 65**

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Formaldehyde	Yes.	No.	40 µg/day	No.

**Canada**

**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.**

**DSL:** Not determined.

**International regulations**

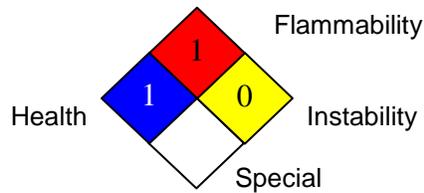
These products are considered articles under both U.S. and international products and as such, these products do not require registration or notification on the various country-specific inventories.

**16. Other information**

**Hazardous Material Information System (U.S.A.) :**

<b>Health</b>	*	1
<b>Flammability</b>		1
<b>Physical hazards</b>		0

**National Fire Protection Association (U.S.A.):**



**Date of issue** : 11/16/2012  
**Date of previous issue** : 04/09/2012  
**Version** : 1.11

Johns Manville  
 Roofing Systems  
 717 17th Street  
 Denver, CO 80202 US

**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.**



MATERIAL SAFETY DATA SHEET

Dyed Diesel Fuel

MSDS No. 9908

**EMERGENCY OVERVIEW**

**CAUTION!**

**OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT -  
EFFECTS CENTRAL NERVOUS SYSTEM  
HARMFUL OR FATAL IF SWALLOWED**



NFPA 704 (Section 16)

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash). Long-term, repeated exposure may cause skin cancer.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

**1. CHEMICAL PRODUCT and COMPANY INFORMATION**

Hess Corporation  
1 Hess Plaza  
Woodbridge, NJ 07095-0961

**EMERGENCY TELEPHONE NUMBER (24 hrs):**  
**COMPANY CONTACT (business hours):**  
**MSDS Internet Website:**

**CHEMTREC (800) 424-9300**  
Corporate EHS (732) 750-6000  
[www.hess.com](http://www.hess.com)

**SYNONYMS:** Tax-exempt Diesel Fuel; Dyed Premium Diesel Fuel; Non Road, Locomotive and Marine Diesel Fuel

See Section 16 for abbreviations and acronyms.

**2. COMPOSITION and INFORMATION ON INGREDIENTS**

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Diesel Fuel (68476-34-6)	100
Naphthalene (91-20-3)	Typically < 0.01

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher, and red dye. Premium Diesel Fuel contains a multifunctional additive.

**3. HAZARDS IDENTIFICATION**

**EYES**

Contact with liquid or vapor may cause mild irritation.

**SKIN**

May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.



## MATERIAL SAFETY DATA SHEET

Dyed Diesel Fuel

MSDS No. 9908

### **INGESTION**

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

### **INHALATION**

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

**WARNING:** the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

### **CHRONIC EFFECTS and CARCINOGENICITY**

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

## **4. FIRST AID MEASURES**

### **EYES**

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

### **SKIN**

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

### **INGESTION**

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

### **INHALATION**

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

## **5. FIRE FIGHTING MEASURES**

### **FLAMMABLE PROPERTIES:**

FLASH POINT:	> 125 °F (> 52 °C) minimum PMCC
AUTOIGNITION POINT:	494 °F (257 °C)
OSHA/NFPA FLAMMABILITY CLASS:	2 (COMBUSTIBLE) (see Section 14 for transportation classification).
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5



## MATERIAL SAFETY DATA SHEET

**Dyed Diesel Fuel**

**MSDS No. 9908**

### **FIRE AND EXPLOSION HAZARDS**

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

### **EXTINGUISHING MEDIA**

**SMALL FIRES:** Any extinguisher suitable for Class B fires, dry chemical, CO<sub>2</sub>, water spray, fire fighting foam, or Halon.

**LARGE FIRES:** Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

### **FIRE FIGHTING INSTRUCTIONS**

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

## **6. ACCIDENTAL RELEASE MEASURES**

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

## **7. HANDLING and STORAGE**

### **HANDLING PRECAUTIONS**

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.



## MATERIAL SAFETY DATA SHEET

**Dyed Diesel Fuel**

**MSDS No. 9908**

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents".

### **STORAGE PRECAUTIONS**

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

### **WORK/HYGIENIC PRACTICES**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

## **8. EXPOSURE CONTROLS and PERSONAL PROTECTION**

### **EXPOSURE LIMITS**

Components (CAS No.)	Source	Exposure Limits	
		TWA/STEL	Note
Diesel Fuel (68476-34-6)	OSHA	5 mg/m <sup>3</sup> (as mineral oil mist) TWA	
	ACGIH	100 mg/m <sup>3</sup> (as totally hydrocarbon vapor) TWA	A3, skin
Naphthalene (91-20-3)	OSHA	10 ppm TWA	
	ACGIH	10 ppm TWA / 15 ppm STEL	A4, Skin

### **ENGINEERING CONTROLS**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

### **EYE/FACE PROTECTION**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### **SKIN PROTECTION**

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

### **RESPIRATORY PROTECTION**

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.



## MATERIAL SAFETY DATA SHEET

**Dyed Diesel Fuel**

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Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

### **9. PHYSICAL and CHEMICAL PROPERTIES**

#### **APPEARANCE**

Red or reddish-colored (dyed) liquid

#### **ODOR**

Mild, petroleum distillate odor

#### **BASIC PHYSICAL PROPERTIES**

BOILING RANGE: 320 to 690 °F (160 to 366 °C)  
VAPOR PRESSURE: 0.009 psia @ 70 °F (21 °C)  
VAPOR DENSITY (air = 1): > 1.0  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.83 to 0.86 @ 60 °F (16 °C)  
PERCENT VOLATILES: 100 %  
EVAPORATION RATE: Slow; varies with conditions  
SOLUBILITY (H<sub>2</sub>O): Negligible

### **10. STABILITY and REACTIVITY**

**STABILITY:** Stable. Hazardous polymerization will not occur.

#### **CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ® ; Fluorel ®

#### **HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

### **11. TOXICOLOGICAL PROPERTIES**

#### **ACUTE TOXICITY**

Acute dermal LD50 (rabbits): > 5 ml/kg                      Acute oral LD50 (rats): 9 ml/kg  
Primary dermal irritation: extremely irritating (rabbits)      Draize eye irritation: non-irritating (rabbits)  
Guinea pig sensitization: negative

#### **CHRONIC EFFECTS AND CARCINOGENICITY**

Carcinogenic: OSHA: NO      IARC: NO      NTP: NO      ACGIH: A3

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

#### **MUTAGENICITY (genetic effects)**

This material has been positive in a mutagenicity study.

### **12. ECOLOGICAL INFORMATION**

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

### **13. DISPOSAL CONSIDERATIONS**



MATERIAL SAFETY DATA SHEET

Dyed Diesel Fuel

MSDS No. 9908

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Diesel Fuel	Placard (International only):
HAZARD CLASS and PACKING GROUP:	3, PG III	
DOT IDENTIFICATION NUMBER:	NA 1993 (Domestic)	
	UN 1202 (International)	
DOT SHIPPING LABEL:	None	Use Combustible Placard if shipping in bulk domestically.

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

<u>ACUTE HEALTH</u>	<u>CHRONIC HEALTH</u>	<u>FIRE</u>	<u>SUDDEN RELEASE OF PRESSURE</u>	<u>REACTIVE</u>
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the de minimis levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

<u>INGREDIENT NAME (CAS NUMBER)</u>	<u>Date Listed</u>
Diesel Engine Exhaust (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)



MATERIAL SAFETY DATA SHEET

Dyed Diesel Fuel

MSDS No. 9908

16. OTHER INFORMATION

NFPA® HAZARD RATING HEALTH: 0
FIRE: 2
REACTIVITY: 0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING HEALTH: 1 \* Slight
FIRE: 2 Moderate
PHYSICAL: 0 Negligible
\* CHRONIC

SUPERSEDES MSDS DATED: 03/04/00

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

Table listing acronyms and their full names: ACGIH (American Conference of Governmental Industrial Hygienists), AIHA (American Industrial Hygiene Association), ANSI (American National Standards Institute), API (American Petroleum Institute), CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act), DOT (U.S. Department of Transportation), EPA (U.S. Environmental Protection Agency), HMIS (Hazardous Materials Information System), IARC (International Agency For Research On Cancer), MSHA (Mine Safety and Health Administration), NFPA (National Fire Protection Association), NIOSH (National Institute of Occupational Safety and Health), NOIC (Notice of Intended Change), NTP (National Toxicology Program), OPA (Oil Pollution Act of 1990), OSHA (U.S. Occupational Safety & Health Administration), PEL (Permissible Exposure Limit), RCRA (Resource Conservation and Recovery Act), REL (Recommended Exposure Limit), SARA (Superfund Amendments and Reauthorization Act), SCBA (Self-Contained Breathing Apparatus), SPCC (Spill Prevention, Control, and Countermeasures), STEL (Short-Term Exposure Limit), TLV (Threshold Limit Value), TSCA (Toxic Substances Control Act), TWA (Time Weighted Average), WEEL (Workplace Environmental Exposure Level), WHMIS (Canadian Workplace Hazardous Materials Information System).

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

# AMERADAHESSCORPORATION

## MATERIAL SAFETY DATA SHEET

**Dyed Diesel Fuel**

**MSDS No. 9908**

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

Activities  
SNU

# Material Safety Data Sheet

R ✓

[Home] [Manufacturer] [Part Number] [NSN] [Help]

## SECTION I - Material Identity

ROSS/Elmers All Purpose White Glue

Item Name..... ROSS/ELMERS ALL PURPOSE WHITE GLUE

Part Number/Trade Name..... ROSS/ ELMERS ALL PURPOSE WHITE GLUE

National Stock Number..... 8040L4164052027

CAGE Code..... ELMER

Part Number Indicator..... A

MSDS Number..... 194208

HAZ Code..... B

## SECTION II - Manufacturer's Information

Manufacturer Name..... ELMER'S PRODUCTS INC

Street..... 1000 KINGSMILL PARKWAY

City..... COLUMBIA

State..... OH

Country..... US

Zip Code..... 43229

Emergency Phone..... 800-424-9300 CHEMTREC

Information Phone..... 614-225-7689 OR 800-848-9400

## MSDS Preparer's Information

Date MSDS Prepared/Revised..... 19SEP00

Active Indicator..... Y

## Alternate Vendors

## SECTION III - Physical/Chemical Characteristics

Appearance/Odor..... OPAQUE WHITE LIQUID

Boiling Point..... 100 C

Melting Point..... NR

Vapor Pressure..... 17

Vapor Density..... < 1

Specific Gravity..... 1.07

Evaporation Rate..... <1 BUTYL ACETATE

Solubility in Water..... MISCIBLE

Percent Volatiles by Volume..... 65

Chemical pH..... 5

Container Type..... R

Container Pressure Code..... 1

Temperature Code..... 4

Product State Code..... L

## SECTION IV - Fire and Explosion Hazard Data

Flash Point Method..... NA

Extinguishing Media..... WILL NOT BURN UNLESS WATER HAS EVAPORATED.  
DRIED MATERIAL MAY BURN.

Special Fire Fighting Procedures..... IN CASE OF FIRE, WATER SHOULD BE USED TO  
KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazards..... NR

## SECTION V - Reactivity Data

Stability..... YES

Stability Conditions to Avoid..... EXPOSURE TO HEAT, FLAME AND INCOMPATIBLES.

Materials to Avoid..... STRONG ACIDS AND ALKALINE MATERIALS

Hazardous Decomposition Products..... CO, CO2

Hazardous Polymerization..... NO

Polymerization Conditions to Avoid..... WILL NOT OCCUR

## SECTION VI - Health Hazard Data

Route of Entry: Skin..... YES

Route of Entry: Ingestion..... YES

Route of Entry: Inhalation..... YES

Health Hazards - Acute and Chronic..... [INGEST] NO HAZARDS KNOWN [INHAL] NOT  
EXPECTED TO BE HARMFUL UNDER NORMAL  
CONDITIONS OF USE. OVEREXPOSURE MAY CAUSE  
CENTRAL NERVOUS SYSTEM DEPRESSION. IF  
ALLOWED TO BECOME AIRBORNE, MAY CAUSE  
IRRITATION OF NOSE, THROAT AND LUNGS.  
[SKIN] MAY CAUSE IRRITATION [EYES] MAY  
CAUSE IRRITATION

Carcinogenity: NTP..... NO

Carcinogenity: IARC..... NO

Carcinogenity: OSHA..... NO

Symptoms of Overexposure..... SEE ABOVE

Medical Cond. Aggravated by Exposure.... NR

~~Emergency/First Aid Procedures~~..... [INGEST] DILUTE BY DRINKING LARGE  
QUANTITIES OF WATER. IMMEDIATELY CONTACT  
POISON CONTROL CENTER OR HOSPITAL  
EMERGENCY ROOM FOR ANY OTHER ADDITIONAL  
TREATMENT DIRECTIONS. [INHAL] REMOVE TO  
FRESH AIR [SKIN] IN CASE OF IRRITATION,  
FLUSH WITH WATER [EYES] IMMEDIATELY FLUSH  
EYES WITH PLENTY OF WATER. CALL A  
PHYSICIAN IF IRRITATION PERSISTS.

## SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled..... SOAK UP WITH ABSORBENT MATERIAL AND REMOVE TO A CHEMICAL DISPOSAL AREA. PREVENT ENTRY INTO NATURAL BODIES OF WATER.

Neutralizing Agent..... NR

Waste Disposal Method..... RECOVER FREE LIQUID. ABSORB RESIDUE AND DISPOSE OF ACCORDING TO LOCAL, STATE/PROVINCIAL, AND FEDERAL REQUIREMENTS.

Handling and Storage Precautions..... HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY. KEEP FROM FREEZING. STORE IN A COOL, DRY PLACE. KEEP CONTAINERS TIGHTLY CLOSED.

Other Precautions..... NR

### SECTION VIII - Control Measures

Respiratory Protection..... NO SPECIAL CONTROL MEASURES NECESSARY UNDER NORMAL CONDITIONS OF USE.

Ventilation..... NO SPECIAL CONTROL MEASURES NECESSARY UNDER NORMAL CONDITIONS OF USE.

Protective Gloves..... NO SPECIAL PROTECTION NEEDED.

Eye Protection..... NO SPECIAL PROTECTION NEEDED.

Other Protective Equipment..... NO SPECIAL PROTECTION NEEDED.

Work Hygienic Practices..... NO SPECIAL PROTECTION NEEDED.

### SECTION IX - Label Data

Protect Eye..... NO

Protect Skin..... NO

Protect Respiratory..... NO

Chronic Indicator..... UNKNOWN

Contact Code..... UNKNOWN

Fire Code..... UNKNOWN

Health Code..... UNKNOWN

React Code..... UNKNOWN

### SECTION X - Transportation Data

### SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)..... 0

Volatile Organic Compounds (G/L)..... 0

### SECTION XII - Ingredients/Identity Information

Ingredient #..... 01

Ingredient Name..... NO HAZARDOUS INGREDIENTS KNOWN/ NO INGREDIENTS LISTED ON MANUF. MSDS

CAS Number..... 1005

Proprietary..... NO  
Percent..... 0  
OSHA PEL..... NR  
ACGIH TLV..... NR

**NOTICE: For additional information, contact BIOENVIRONMENTAL**

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*HMMS Intranet - 01 Oct 2005 09:43 - web\_msd.display - Visit the Official HMMS Website at [www.hmms.com](http://www.hmms.com)*


**Material Safety  
Data Sheets**

 MSDS-000102  
 7/28/1997  
 Borden

Division of Facilities Services

## DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

### ELMERS CARPENTERS WOOD GLUE, 21371

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Composition/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

The information in this document is compiled from information maintained by the United States Department of Defense (DOD). Anyone using this information is solely responsible for the accuracy and applicability of this information to a particular use or situation.

Cornell University does not in any way warrant or imply the applicability, viability or use of this information to any person or for use in any situation.

### Section 1 - Product and Company Identification ELMERS CARPENTERS WOOD GLUE, 21371

**Product Identification:** ELMERS CARPENTERS WOOD GLUE, 21371

**Date of MSDS:** 07/28/1997 **Technical Review Date:** 01/29/1998

**FSC:** 8040 **NIIN:** LIIN: 00N078649

**Submitter:** N EN

**Status Code:** C

**MFN:** 01

**Article:** N

**Kit Part:** N

**Manufacturer's Information**

**Manufacturer's Name:** BORDEN INC  
**Manufacturer's Address1:** 180 EAST BROAD ST  
**Manufacturer's Address2:** COLUMBUS, OH 43215  
**Manufacturer's Country:** US  
**General Information Telephone:** 614-457-5200  
**Emergency Telephone:** 614-457-5200  
**Emergency Telephone:** 614-457-5200  
**MSDS Preparer's Name:** N/P  
**Proprietary:** N  
**Reviewed:** Y  
**Published:** Y  
**CAGE:** 07982  
**Special Project Code:** N

**Contractor Information**

**Contractor's Name:** BORDEN CHEMICAL CO  
**Contractor's Address1:** 180 E BROAD ST  
**Contractor's Address2:** COLUMBUS, OH 43215-3705  
**Contractor's Telephone:** 614-225-6124  
**Contractor's CAGE:** 86142

**Contractor Information**

**Contractor's Name:** BORDEN INC  
**Post Office Box:** 208  
**Contractor's Address1:** 180 E BROAD ST  
**Contractor's Address2:** COLUMBUS, OH 43215-3705  
**Contractor's Telephone:** 614-225-6124  
**Contractor's CAGE:** 07982

---

**Section 2 - Composition/Information on Ingredients**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**Ingredient Name:** NON-HAZARDOUS INGREDIENTS  
**Ingredient CAS Number:** **Ingredient CAS Code:** X  
**RTECS Number:** **RTECS Code:** X  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text:** N/K  
**% Environmental Weight:**

**Other REC Limits:** N/K  
**OSHA PEL:** N/K (FP N) **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**  
**ACGIH TLV:** N/K (FP N) **ACGIH TLV Code:** M  
**ACGIH STEL:** N/P **ACGIH STEL Code:**  
**EPA Reporting Quantity:**  
**DOT Reporting Quantity:**  
**Ozone Depleting Chemical:**

---

**Section 3 - Hazards Identification, Including Emergency Overview**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Health Hazards Acute & Chronic:** EYES:SLIGHTLY IRRITATING WHEN TESTED AS DESCRIBED IN 16 CFR PART 1500.42. SKIN:NOT TOXIC DERMALLY WHEN TESTED AS DESCRIBED IN 15 CFR PART 1500.3 (C) (1) AND (2). SLIGHTLY TO MODERATELY IRRITATING (PRI MARY IRRITATION INDEX <5/8) WHEN TESTED AS DESCRIBED IN 16 CFR PART 1500.41. INGESTION:NOT TOXIC (EFTS OF OVEREXP)

**Signs & Symptoms of Overexposure:**

HLTH HAZ:ORALLY WHEN TESTED AS DESCRIBED IN 16 CFR PART 1500.3 (2) (1) AND (2).  
INHALATION:MAY BE HARMFUL IF INHALED. LIQUID OR VAPOR MAY CAUSE IRRITATION OF NOSE, THROAT AND LUNGS.

**Medical Conditions Aggravated by Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**LD50 LC50 Mixture:** NONE SPECIFIED BY MANUFACTURER.

**Route of Entry Indicators:**

**Inhalation:** YES  
**Skin:** YES  
**Ingestion:** NO

**Carcenogenicity Indicators**

**NTP:** NO  
**IARC:** NO  
**OSHA:** YES

**Carcinogenicity Explanation:** CONTAINS 2-A [53-96-3] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

---

**Section 4 - First Aid Measures**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**First Aid:**

EYES:FLUSH THOROUGHLY W/WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CALL MD. SKIN:FLUSH W/WATER. INGEST:INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER & STICKING FINGER DOWN THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL MD. INHAL:REMOVE TO FRESH AIR.

---

**Section 5 - Fire Fighting Measures**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Fire Fighting Procedures:**

USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL.

**Unusual Fire or Explosion Hazard:**

NO INFORMATION GIVEN BY MANUFACTURER.

**Extinguishing Media:**

WILL NOT BURN UNLESS WATER HAS EVAPORATED. IN CASE OF IFRE, USE WATER SPRAY, DRY CHEMICAL, FOAM OR CO\*2.

**Flash Point:** Flash Point Text: N/K

**Autoignition Temperature:**

**Autoignition Temperature Text:** N/A

**Lower Limit(s):** N/K

**Upper Limit(s):** N/K

---

**Section 6 - Accidental Release Measures**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Spill Release Procedures:**

SOAK UP W/ABSORBENT MATERIAL & REMOVE TO A CHEMICAL DISPOSAL AREA. PREVENT ENTRY INTO NATURAL BODIES OF WATER.

---

**Section 7 - Handling and Storage**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Handling and Storage Precautions:****Other Precautions:**

---

**Section 8 - Exposure Controls & Personal Protection**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Respiratory Protection:**

NIOSH APPROVED RESPIRATORY PROTECTION REQUIRED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

**Ventilation:**

NO INFORMATION GIVEN BY MANUFACTURER.

**Protective Gloves:**

IMPERVIOUS GLOVES.

**Eye Protection:** ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)

**Other Protective Equipment:** EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA (FP N). SAFETY SHOES, HARD HATS & SUITABLE CLOTHING.

**Work Hygenic Practices:** WASH THOROUGHLY AFTER HANDLING.

**Supplemental Health & Safety Information:** SOL IN H\*2O:INFINITELY DISPERSIBLE. EYE PROT:& FULL LENGTH FACESHIELD (FP N).

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**Section 9 - Physical & Chemical Properties**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**HCC:****NRC/State License Number:****Net Property Weight for Ammo:****Boiling Point: Boiling Point Text: N/K****Melting/Freezing Point: Melting/Freezing Text: N/K****Decomposition Point: Decomposition Text: N/K****Vapor Pressure: N/K Vapor Density: N/K****Percent Volatile Organic Content:****Specific Gravity: 1.1****Volatile Organic Content Pounds per Gallon:****pH: N/K****Volatile Organic Content Grams per Liter:****Viscosity: N/P****Evaporation Weight and Reference: N/K****Solubility in Water: (SUPP DATA)****Appearance and Odor: LIGHT YELLOW LIQUID; MILD ACETIC AROMA.****Percent Volatiles by Volume: 53.5****Corrosion Rate: N/K**

---

**Section 10 - Stability & Reactivity Data**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Stability Indicator: NO****Materials to Avoid:**

NO INFORMATION GIVEN BY MANUFACTURER.

**Stability Condition to Avoid:**

NO INFORMATION GIVEN BY MANUFACTURER.

**Hazardous Decomposition Products:**

NO INFORMATION GIVEN BY MANUFACTURER.

**Hazardous Polymerization Indicator: NO****Conditions to Avoid Polymerization:**NOT RELEVANT

---

**Section 11 - Toxicological Information**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**Toxicological Information:**N/P

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**Section 12 - Ecological Information**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Ecological Information:**N/P

---

**Section 13 - Disposal Considerations**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

---

**Waste Disposal Methods:**

RECOVER FREE LIQUID; ABSORB RESIDUE & DISPOSE OF ACCORDING TO LOCAL, STATE & FEDERAL REQUIREMENTS.

---

**Section 14 - MSDS Transport Information**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**Transport Information:**  
N/P

---

**Section 15 - Regulatory Information**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**SARA Title III Information:**  
N/P  
**Federal Regulatory Information:**  
N/P  
**State Regulatory Information:**  
N/P

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**Section 16 - Other Information**  
**ELMERS CARPENTERS WOOD GLUE, 21371**

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**Other Information:**  
N/P

**HAZCOM Label Information**

**Product Identification:** ELMERS CARPENTERS WOOD GLUE, 21371  
**CAGE:** 07982  
**Assigned Individual:** N  
**Company Name:** BORDEN INC  
**Company PO Box:** 208  
**Company Street Address1:** 180 E BROAD ST  
**Company Street Address2:** COLUMBUS, OH 43215-3705 US  
**Health Emergency Telephone:** 614-457-5200  
**Label Required Indicator:** Y  
**Date Label Reviewed:** 07/28/1997  
**Status Code:** C  
**Manufacturer's Label Number:**  
**Date of Label:** 07/28/1997  
**Year Procured:** N/K  
**Organization Code:** G  
**Chronic Hazard Indicator:** N  
**Eye Protection Indicator:** YES  
**Skin Protection Indicator:** YES  
**Respiratory Protection Indicator:** YES  
**Signal Word:** CAUTION  
**Health Hazard:** Slight  
**Contact Hazard:** Slight  
**Fire Hazard:** None  
**Reactivity Hazard:** None

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Material Safety Data Sheet  
**Material Name: ELMER'S MULTI-PURPOSE FLOORING ADHESIVE**  
**MSDS ID: 00227825**  
Issue Date: 03/14/11  
Revision 2.0500

### Other Sections

[02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

---

**\*\*\* Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION\*\*\***

---

**Material Name:** ELMER'S MULTI-PURPOSE FLOORING ADHESIVE

### Manufacturer Information

Elmer's Products, Inc.  
460 Polaris Parkway  
Westerville, OH 43082

Emergency Phone Number:  
Poison Control Center  
1-888-516-2502

For additional product information, access our website at [www.elmers.com](http://www.elmers.com) or call 1-888-435-6377. To place an order, call 1-800-848-9400.

### Trade Names/Synonyms

E854; E857; E858; 69510; 69511

### Product Use

adhesives

---

**\*\*\* Section 2 - HAZARDS IDENTIFICATION\*\*\***

---

### NFPA Ratings:

**Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### EMERGENCY OVERVIEW

**Color:** off-white

**Physical Form:** paste

**Odor:** odorless

**Major Health Hazards:** No significant target effects reported.

### POTENTIAL HEALTH EFFECTS

#### Inhalation

**Short Term:** no information on significant adverse effects

**Long Term:** no information on significant adverse effects

#### Skin

**Short Term:** no information on significant adverse effects

**Long Term:** no information on significant adverse effects

#### Eye

**Short Term:** mild irritation

**Long Term:** no information on significant adverse effects

#### Ingestion

**Short Term:** no information on significant adverse effects

**Long Term:** no information on significant adverse effects

---

**\*\*\* Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\*\*\***

CAS	Component	Percent
Not Available	Non-hazardous substance	50-70
1332-58-7	Kaolin	30-50

---

**\*\*\* Section 4 - FIRST AID MEASURES\*\*\***

#### Inhalation

If adverse effects occur, remove to uncontaminated area.

#### Skin

Wash exposed skin with soap and water.

#### Eyes

Flush eyes with plenty of water.

#### Ingestion

If a large amount is swallowed, get medical attention. DO NOT induce vomiting.

---

**\*\*\* Section 5 - FIRE FIGHTING MEASURES\*\*\***

See Section 9 for Flammability Properties

#### Flammable Properties

Slight fire hazard.

#### Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

#### Sensitivity to Mechanical Impact

No

#### Sensitivity to Static Discharge

No

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

---

**\*\*\* Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\***

---

**Occupational spill/release**

Stop leak if possible without personal risk. **Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

---

**\*\*\* Section 7 - HANDLING AND STORAGE\*\*\***

---

**Handling Procedures**

Wash thoroughly after handling. Do not puncture container.

**Storage Procedures**

Store and handle in accordance with all current regulations and standards. Protect from freezing. Keep separated from incompatible substances.

---

**\*\*\* Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\*\*\***

---

**Component Exposure Limits**

**Kaolin (1332-58-7)**

**ACGIH:** 2 mg/m<sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)

**NIOSH:** 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

**OSHA:** 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**OSHA (Vacated):** 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**Ventilation**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes/Face**

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Protective Clothing**

Protective clothing is not required under normal conditions.

**Glove Recommendations**

Protective gloves are not required under normal conditions.

**Respiratory Protection**

No respirator is required under normal conditions of use.

---

**\*\*\* Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\***

<b>Physical State:</b> Liquid	<b>Appearance:</b> Off-white paste
<b>Color:</b> off-white	<b>Physical Form:</b> paste
<b>Odor:</b> odorless	<b>Odor Threshold:</b> Not available
<b>pH:</b> 9.6 - 10.0	<b>Melting/Freezing Point:</b> Not available
<b>Boiling Point:</b> Not available	<b>Flash Point:</b> None
<b>Evaporation Rate:</b> same as water	<b>Vapor Pressure:</b> 17 mmHg @20 C
<b>Vapor Density (air = 1):</b> same as water	<b>Density:</b> Not available
<b>Specific Gravity (water = 1):</b> 1.12 - 1.18	<b>Water Solubility:</b> dispersible
<b>Coeff. Water/Oil Dist:</b> Not available	<b>Viscosity:</b> 190,000 - 350,000 cps @20 - 25 C
<b>Percent Solids:</b> 44 - 46 %	<b>VOC:</b> negligible
<b>Volatility:</b> Not available	<b>Volatility by Weight:</b> 50-55 %
<b>Weight per gallon:</b> 9.3-9.8 lbs/gal.	

---

**\*\*\* Section 10 - STABILITY AND REACTIVITY\*\*\***

**Chemical Stability**

Stable at normal temperatures and pressure.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Materials to Avoid**

oxidizing materials

**Decomposition Products**

oxides of carbon

**Possibility of Hazardous Reactions**

Will not polymerize.

---

**\*\*\* Section 11 - TOXICOLOGICAL INFORMATION\*\*\***

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and no selected endpoints have been

identified.

**RTECS Acute Toxicity (selected)**

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

**Component Carcinogenicity****Kaolin (1332-58-7)**

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**RTECS Irritation**

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

**RTECS Tumorigenic**

The components of this material have been reviewed, and RTECS publishes data for one or more components.

**RTECS Mutagenic**

The components of this material have been reviewed, and RTECS publishes data for one or more components.

**RTECS Reproductive Effects**

The components of this material have been reviewed, and RTECS publishes data for one or more components.

---

**\*\*\* Section 12 - ECOLOGICAL INFORMATION\*\*\***

---

**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components.

---

**\*\*\* Section 13 - DISPOSAL CONSIDERATIONS\*\*\***

---

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

---

**\*\*\* Section 14 - TRANSPORT INFORMATION\*\*\***

---

**US DOT Information:** No Classification assigned.

**TDG Information:** No Classification assigned.

---

**\*\*\* Section 15 - REGULATORY INFORMATION\*\*\***

---

**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process

safety plan.

### SARA 311/312

**Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No**

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Kaolin	1332-58-7	No	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

### Canadian Inventory

All components of this product are listed on the DSL.

### U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory.

### Component Analysis - Inventory

Component	CAS	US	CA
Kaolin	1332-58-7	Yes	DSL

### \*\*\* Section 16 - OTHER INFORMATION\*\*\*

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

### Other Information

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

**MSDS Update:** 09/01/2009



# Material Safety Data Sheet

## E

### 1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S PROBOND WOOD GLUE  
 PRODUCT TYPE: PVAC BASED ADHESIVE  
 APPLICATION: FOR PRODUCT CODES SEE SECTION 16

- **Manufacturer/Supplier Information**

MSDS Prepared by:  
 Elmer's Products, Inc.  
 1 Easton Oval  
 Columbus, OH 43219  
 For additional health, safety or regulatory information, call 888-435-6377.  
 Call 1-800-848-9400 to place an order or request additional MSDSs.

Emergency Phone Number  
 Poison Control Center  
 888-516-2502

### 2. Composition, Information on Ingredients

No hazardous ingredients known to company.

### 3. Hazards Identification

#### 3.1 Emergency Overview

Appearance	Light yellow liquid
Odor	Mild acetic aroma
CAUTION!	
Not a significant fire hazard.	
May cause eye irritation	

- **HMIS Rating**

HEALTH = 1 (slight)  
FLAMMABILITY = 0 (minimal)  
REACTIVITY = 0 (minimal)

---

### 3.2 Potential Health Effects

---

- **Immediate Hazards**

INGESTION: No hazards known to company.  
INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.  
SKIN: May cause irritation on prolonged or repeated contact.  
EYES: May cause irritation on prolonged or repeated contact.

---

- **Delayed Hazards**

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

---

### 4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.  
INHALATION: Remove to fresh air.  
SKIN: In case of irritation, flush with water.  
EYES: Immediately flush eyes with plenty of water. Call a physician if irritation persists.

---

### 5. Fire Fighting Measures

Autoignition Temperature Not available  
Upper/Lower Flammable Limits Not applicable  
Up/Lower Explosive Limits, % by Vol Not applicable  
Flash Point Not applicable  
Will not burn unless water has evaporated. Dried material may burn.  
In case of fire, water should be used to keep fire-exposed containers cool.

---

## 6. Accidental Release Measures

Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

---

## 7. Handling and Storage

---

### 7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoid prolonged or repeated breathing of vapor.

SKIN: Avoid prolonged or repeated contact with skin and clothing.

EYES: Avoid prolonged or repeated contact with eyes.

---

### 7.2 Storage

Keep from freezing.

Store in a cool, dry place.

Keep containers tightly closed.

---

## 8. Exposure Controls/Personal Protection

---

### 8.1 Exposure Controls

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

---

### 8.2 Personal Protection

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection.

---

### 8.3 Exposure Guidelines

None established

---

### 9. Physical and Chemical Properties

Percent Volatiles	54.0
pH @ 25 C	4.25
Specific Gravity	1.09
Appearance	Light yellow liquid
Autoignition Temperature	Not available
Boiling Point	100 deg C
Vapor Density (Air=1)	< 1
Vapor Pressure, mm Hg @ 20 C	17.5
Evaporation Rate (Butyl Acetate=1)	< 1
Upper/Lower Flammable Limits	Not applicable
Up/Lower Explosive Limits, % by Vol	Not applicable
Flash Point	Not applicable
Freezing Point	0 deg C
Odor	Mild acetic aroma
Odor Threshold, ppm	Not available
Solubility in Water	Dispersible

---

### 10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

---

- **Incompatibilities:**

Strong acids and alkaline materials.

---

- **Decomposition products may include:**

CO, CO2.

---

- **Hazardous polymerization:**

Will not occur.

---

- **Other Hazards:**

None known to company.

---

## 11. Toxicological Information

See Section 3 Hazards Identification information.

---

## 12. Ecological Information

Not determined.

---

## 13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

---

## 14. Transport Information

---

### 14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Non-Regulated.

---

### 14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

---

## 15. Regulatory Information (Selected Regulations)

---

### 15.1 U.S. Federal Regulations

---

- OSHA Hazard Communication Standard 29CFR1910.1200

This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

---

- **SARA Title III: Section 311/312**

Does not meet any hazard category

---

- **SARA Title III Section 313 and 40 CFR Part 372**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.  
None required per SARA TITLE III SECTION 313.

---

- **TSCA Section 8(b) Inventory**

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

---

## 15.2 Canadian Regulations

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- **Workplace Hazardous Materials Information System (WHMIS)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.  
Not a controlled product

---

- **Canadian Environmental Protection Act (CEPA)**

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

---

- **National Pollutant Release Inventory (NPRI)**

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory. None required.

---

## 16. Other Information

MSDS covers items:

U.S.: P9702, P9703, P9705

Canada: 69702, 69703, 69705

---

- **User's Responsibility**

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

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- **Disclaimer**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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CURRENT ISSUE: 16-NOV-06

PREVIOUS ISSUE: 10-JUN-04



# Material Safety Data Sheet

**E**

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## 1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S REGULAR EPOXY, HARDENER PHASE  
PRODUCT TYPE: POLYAMIDE RESIN  
APPLICATION: 60602PART2

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### • Manufacturer/Supplier Information

MSDS Prepared by:  
Elmer's Products, Inc.  
1000 Kingsmill Parkway  
Columbus, OH 43229  
Emergency Phone Number  
Poison Control Center  
1-800-228-5635 ext 22  
For additional health, safety or regulatory information, call 614-225-7695.  
Call 1-800-848-9400 to place an order or request additional MSDSs.

---

## 2. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(\*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

	% by weight
112-24-3 *Triethylenetetramine	10-30
68410-23-1 Fatty Acids, C18-Unsatd., Dimers, Reaction Products With Polyethylenepolyamines	>70
112945-52-5 Silica, Amorphous, Fumed, Cryst.-Free	10-30

---

## 3. Hazards Identification

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### 3.1 Emergency Overview

Appearance Amber paste  
Odor Amine odor  
WARNING!  
Will burn.  
Causes chemical burns to skin.  
Causes chemical burns to eyes.  
May be harmful if inhaled. May cause irritation of nose, throat and lungs.  
May cause allergic skin and respiratory reactions.  
May be harmful if absorbed through skin.

---

#### • HMIS Rating

HEALTH = 3 (serious)  
FLAMMABILITY = 1 (slight)  
REACTIVITY = 0 (minimal)  
CHRONIC = \*

---

### 3.2 Potential Health Effects

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#### • Immediate Hazards

INGESTION: Not expected to be harmful under normal conditions of use.  
If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.  
INHALATION: May be harmful if inhaled. Vapor may cause irritation of nose, throat and lungs.  
SKIN May be harmful if absorbed through skin. Causes chemical burns.  
EYES: Causes chemical burns.

---

#### • Delayed Hazards

Triethylenetetramine 112-24-3

May cause allergic skin and respiratory reactions.

Can cause lung damage. Pre-existing respiratory disorders may be aggravated by exposure.

Can cause liver damage.

Can cause kidney damage.

-- See Footnote C.

Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen.

---

## 4. First Aid Measures

**INGESTION:** If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a physician.

**SKIN:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing and shoes before reuse.

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

---

## 5. Fire Fighting Measures

Autoignition Temperature Not available

Upper/Lower Flammable Limits Not available

Up/Lower Explosive Limits, % by Vol Not available

Flash Point > 428 deg F (> 220 deg C) (COC)

Will burn.

In case of fire, use water spray, dry chemical, foam or CO2. Use water to keep fire-exposed containers cool.

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## 6. Accidental Release Measures

Sweep (scoop) up and remove to a chemical disposal area. Prevent entry into natural bodies of water.

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## 7. Handling and Storage

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### 7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoid breathing vapor. Use with adequate ventilation.

SKIN: Do not get on skin or on clothing.

EYES: Do not get in eyes.

---

## 7.2 Storage

Store in a cool, dry place.  
Keep containers tightly closed.

---

## 8. Exposure Controls/Personal Protection

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### 8.1 Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

---

### 8.2 Personal Protection

Wear synthetic apron and boots if contact is likely. Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles and face shield if contact is likely. Wear impervious gloves as required to prevent skin contact.

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### 8.3 Exposure Guidelines

Triethylenetetramine 112-24-3  
ACGIH TLV: NONE ESTABLISHED  
OSHA PEL: NONE ESTABLISHED  
Fatty Acids, C18-Unsatd., Dimers, Reaction Products 68410-23-1  
With Polyethylenepolyamines  
ACGIH TLV: NONE ESTABLISHED  
OSHA PEL: NONE ESTABLISHED  
Silica, Amorphous, Fumed, Cryst.-Free 112945-52-5  
ACGIH TLV: 10 mg/m<sup>3</sup> TWA, inhalable particulate; 3 mg/m<sup>3</sup> TWA respirable, Particulates (insoluble) Not Otherwise Classified  
OSHA PEL: 20 mppcf; 80/(%SiO<sub>2</sub>) mg/m<sup>3</sup> TWA  
REMANDED PEL: 6 mg/m<sup>3</sup> TWA  
OSHA 1989 PEL remanded, but in effect in some states

---

## 9. Physical and Chemical Properties

Percent Volatiles	Negligible
pH @ 25 C	Not available
Specific Gravity	0.97
Appearance	Amber paste
Autoignition Temperature	Not available
Boiling Point	Decomposed
Vapor Density (Air=1)	Not available
Vapor Pressure, mm Hg @ 20 C	Negligible @ 20 deg C
Evaporation Rate (Butyl Acetate=1)	Not applicable
Upper/Lower Flammable Limits	Not available
Up/Lower Explosive Limits, % by Vol	Not available
Flash Point	> 428 deg F (> 220 deg C) (COC)
Freezing Point	Not available
Odor	Amine odor
Odor Threshold, ppm	Not available
Solubility in Water	Slight
Coefficient of Water/Oil Distrib.	Not available

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## 10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

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### • Incompatibilities:

Oxidizers, acids

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### • Decomposition products may include:

Oxides of carbon and nitrogen.

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### • Hazardous polymerization:

Will not occur.

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### • Other Hazards:

None known to company.

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## 11. Toxicological Information

See Section 3 Hazards Identification information.  
Triethylenetetramine 112-24-3  
LC50: Not available  
LD50: orl-rat=2.5 g/kg (Merck)  
Fatty Acids, C18-Unsatd., Dimers, Reaction Products 68410-23-1  
With Polyethylenepolyamines  
LC50: Not available  
LD50: Not available  
Silica, Amorphous, Fumed, Cryst.-Free 112945-52-5  
LC50: Not available  
LD50: Not available

---

## 12. Ecological Information

Not determined.

---

## 13. Disposal Considerations

Dispose of according to local, state/provincial, and federal requirements.

---

## 14. Transport Information

---

### 14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.  
Non-Regulated.

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### 14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

---

## 15. Regulatory Information (Selected Regulations)

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### 15.1 U.S. Federal Regulations

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## • OSHA Hazard Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

---

## • SARA Title III: Section 311/312

Immediate health hazard  
Delayed health hazard

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## • SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.  
None required per SARA TITLE III SECTION 313.

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## • TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

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## 15.2 Canadian Regulations

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### • Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

CLASS D, DIV 1B  
CLASS D, DIV 2A, 2B  
CLASS E

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### • Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic

Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

---

## • National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory. None required.

---

## 16. Other Information

---

### • User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

---

### • Disclaimer

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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CUR ISSUE 13-JAN-04  
PREVIOUS ISSUE: 14-SEP-01

DOD Hazardous Materials Information System  
DoD 6050.5-L  
AS OF July 1998

FSC: 8040  
NIIN: 00N071775  
Manufacturer's CAGE: 86142  
Part No. Indicator: A  
Part Number/Trade Name: ELMERS RUBBER CEMENT, E904

=====  
General Information  
=====

Item Name:  
Company's Name: BORDEN INC  
Company's Street: 180 EAST BROAD ST  
Company's P. O. Box:  
Company's City: COLUMBUS  
Company's State: OH  
Company's Country: US  
Company's Zip Code: 43215  
Company's Emerg Ph #: 614-431-6600  
Company's Info Ph #: 800-848-9400  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: N  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 002  
Status: SMJ  
Date MSDS Prepared: 16MAR91  
Safety Data Review Date: 24JUL96  
Supply Item Manager:  
MSDS Preparer's Name:  
Preparer's Company:  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:  
Other MSDS Number:  
MSDS Serial Number: CBPKT  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code:  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

Report for NIIN: 00N071775

NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

=====  
Ingredients/Identity Information  
=====

=====

Proprietary: NO  
 Ingredient: ISOPROPYL ALCOHOL; (ISOPROPANOL) (SARA 313)  
 Ingredient Sequence Number: 01  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: NT8050000  
 CAS Number: 67-63-0  
 OSHA PEL: 400 PPM  
 ACGIH TLV: 400 PPM/500STEL  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: HEPTANE  
 Ingredient Sequence Number: 02  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: MI7700000  
 CAS Number: 142-82-5  
 OSHA PEL: 500 PPM  
 ACGIH TLV: 400 PPM/500STEL  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: VOLATILE ORGANIC CONTENT (CALCULATED): 624 G/L  
 Ingredient Sequence Number: 03  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999VO  
 CAS Number:  
 OSHA PEL: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

=====

Physical/Chemical Characteristics

=====

Appearance And Odor: OPAQUE LIQUID, WITH MILD SOLVENT ODOR  
 Boiling Point: 194F,90C  
 Melting Point: N/K  
 Vapor Pressure (MM Hg/70 F): N/K  
 Vapor Density (Air=1): >1  
 Specific Gravity: 0.71  
 Decomposition Temperature: N/K  
 Evaporation Rate And Ref: <1 (ETHER=1)

Report for NIIN: 00N071775

Solubility In Water: NEGLIGIBLE  
 Percent Volatiles By Volume: 90  
 Viscosity:  
 pH: N/K  
 Radioactivity:  
 Form (Radioactive Matl):  
 Magnetism (Milligauss):  
 Corrosion Rate (IPY): N/K  
 Autoignition Temperature:

=====

Fire and Explosion Hazard Data

=====  
Flash Point: 14F,-10C  
Flash Point Method: TCC  
Lower Explosive Limit: N/K  
Upper Explosive Limit: N/K  
Extinguishing Media: USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.  
Special Fire Fighting Proc: WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).  
Unusual Fire And Expl Hazrds: KEEP LIQ & VAP AWAY FROM HEAT, SPARKS, FLAME & OTHER IGNIT SOURCES INCL, BUT NOT LIMITED TO, PILOT LIGHTS, HEATERS, CIGARETTES, ELEC MOTORS & STATIC (SUP DAT)  
=====

Reactivity Data

=====  
Stability: YES  
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
Materials To Avoid: ACIDS, BASES, AMINES.  
Hazardous Decomp Products: DECOMPOSITION PRODUCTS MAY INCLUDE CARBON MONOXIDE, CARBON DIOXIDE.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT.  
=====

Health Hazard Data

=====  
LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: ACUTE: ISOPROPANOL MAY CAUSE LIVER & KIDNEY DMG BASED ON ANIMAL DATA. ISOPROPANOL & HEPTANE CAN CAUSE CNS DEPRESS. SIGNS & SYMPS MAY INCL HDCH, DIZZ, NAUS, VOMIT, UNCON & EVEN ASPHY. INHAL: NOT EXPECTED TO BE HARMFUL UNDER NORM CNDTNS OF USE. HOWEVER, OVEREXP MAY CAUSE CNS DEPRESS. ALSO, IF ALLOWED (EFTS OF OVEREXP)  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NOT RELEVANT.  
Signs/Symptoms Of Overexp: HLTH HAZ: TO BECOME AIRBORNE, MAY CAUSE IRRIT OF NOSE, THROAT & LUNGS. SKIN/EYES: MAY CAUSE IRRIT ON PRLNG/RPTD CONT.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
Emergency/First Aid Proc: INGEST: IF ACCIDENTATLY SWALLOWED, DILUTE BY

Report for NIIN: 00N071775

DRINKING LARGE QUANTITIES OF WATER. IMMEDIATELY CONTACT POISON CONTROL CENTER OR HOSPITAL EMERGENCY ROOM FOR ANY OTHER ADDITIONAL TREATMENT DIRECTIONS. INHALATION: REMOVE TO FRESH AIR. SKIN: IN CASE OF IRRITATION, FLUSH WITH WATER. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL MD IF IRRITATION PERSISTS.  
=====

Precautions for Safe Handling and Use

=====  
Steps If Matl Released/Spill: ELIMINATE ALL IGNITION SOURCES. SOAK UP WITH ABSORBENT MATERIAL AND REMOVE TO A CHEMICAL DISPOSAL AREA. PREVENT ENTRY INTO NATURAL BODIES OF WATER.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
Waste Disposal Method: RECOVER FREE LIQUID. ABSORB RESIDUE AND DISPOSE OF ACCORDING TO LOCAL, STATE/PROVINCIAL, AND FEDERAL REQUIREMENTS. EMPTY CONTAINERS: MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEARBY.  
=====

Precautions-Handling/Storing: STORE IN COOL, WELL-VENTD AREA. KEEP CONTRS TIGHTLY CLSD. DO NOT STORE AT TEMPS ABOVE 120F. KEEP AWAY FROM HEAT, SPARKS, FLAME & OTHER IGNIT SOURCES.

Other Precautions: USE W/ADEQUATE VENTILATION. AVOID PROLONGED/REPEATED BREATHING OF VAPOR. PERSONS W/SENSITIVE SKIN SHOULD AVOID PROLONGED, CONTINUOUS CONTACT W/SKIN. IF IRRITATION DEVELOPS, DISCONTINUE USE. AVOID PROLONGED/REPEATED CONTACT W/EYES.

Control Measures

Respiratory Protection: WHERE AIR CONTAMINANTS CAN EXCEED ACCEPTABLE CRITERIA, USE NIOSH APPROVED RESP PROT EQUIP. RESPIRATORS SHOULD BE SELECTED BASED ON FORM & CONCENTRATION OF CONTAMINANTS IN AIR I/A/W OSHA 29 CFR 1910.134/OTHER APPLICABLE STDS/GUIDELINES.

Ventilation: IF AIRBORNE CONTAMINANTS ARE GENERATED WHEN THE MATL IS HEATED/HANDLED, SUFFICIENT VENT IN VOL & AIR FLOW (SUP DAT)

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS (FP N).

Other Protective Equipment: EMERGENCY EYEWASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

Work Hygienic Practices: HANDLE I/A/W GOOD INDUS HYGIENE & SFTY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNEC EXPOS & REMOVAL OF (SUP DAT)

Suppl. Safety & Health Data: EXPLO HAZ: DISCHARGE. VAP IS HVR/AIR & MAY SETTLE IN LOW PLACES/TRAVEL OUTWARD TO SOURCE OF IGNIT & FLASHBACK. VENT: PATTERNS SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCS LEVELS BELOW ACCEPTABLE CRITERIA. HYGIENE PRACT: THE MATL FROM EYES, SKIN & CLTHG. WASH THORO AFTER HANDLING.

Transportation Data

Transportation Action Code:

Transportation Focal Point:

Trans Data Review Date:

DOT PSN Code:

DOT Symbol:

DOT Proper Shipping Name:

DOT Class:

Report for NIIN: 00N071775

DOT ID Number:

DOT Pack Group:

DOT Label:

DOT/DoD Exemption Number:

IMO PSN Code:

IMO Proper Shipping Name:

IMO Regulations Page Number:

IMO UN Number:

IMO UN Class:

IMO Subsidiary Risk Label:

IATA PSN Code:

IATA UN ID Number:

IATA Proper Shipping Name:

IATA UN Class:

IATA Subsidiary Risk Class:

IATA Label:

AFI PSN Code:

AFI Symbols:

AFI Prop. Shipping Name:

AFI Class:

AFI ID Number:

AFI Pack Group:  
AFI Label:  
AFI Special Prov:  
AFI Basic Pac Ref:  
MMAC Code:  
N.O.S. Shipping Name:  
Additional Trans Data:

=====  
Disposal Data  
=====

Disposal Data Action Code:  
Disposal Data Focal Point:  
Disposal Data Review Date:  
Rec # For This Disp Entry:  
Tot Disp Entries Per NSN:  
Landfill Ban Item:  
Disposal Supplemental Data:  
1st EPA Haz Wst Code New:  
1st EPA Haz Wst Name New:  
1st EPA Haz Wst Char New:  
1st EPA Acute Hazard New:  
2nd EPA Haz Wst Code New:  
2nd EPA Haz Wst Name New:  
2nd EPA Haz Wst Char New:  
2nd EPA Acute Hazard New:  
3rd EPA Haz Wst Code New:  
3rd EPA Haz Wst Name New:  
3rd EPA Haz Wst Char New:  
3rd EPA Acute Hazard New:

Report for NIIN: 00N071775

=====  
Label Data  
=====

Label Required: YES  
Technical Review Date: 24JUL96  
Label Date: 24JUL96  
MFR Label Number:  
Label Status: G  
Common Name: ELMERS RUBBER CEMENT, E904  
Chronic Hazard: NO  
Signal Word: DANGER!  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate: X  
Acute Health Hazard-Severe:  
Contact Hazard-None:  
Contact Hazard-Slight: X  
Contact Hazard-Moderate:  
Contact Hazard-Severe:  
Fire Hazard-None:  
Fire Hazard-Slight:  
Fire Hazard-Moderate:  
Fire Hazard-Severe: X  
Reactivity Hazard-None: X  
Reactivity Hazard-Slight:  
Reactivity Hazard-Moderate:  
Reactivity Hazard-Severe:  
Special Hazard Precautions: EXTREMELY FLAMMABLE. ACUTE: ISOPROPANOL MAY CAUSE LIVER AND KIDNEY DAMAGE BASED ON ANIMAL DATA. ISOPROPANOL AND HEPTANE

CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. SIGNS AND SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA, VOMITING, UNCONSCIOUSNESS AND EVEN ASPHYXIATION. INHALATION: OVEREXPOSURE MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. ALSO, IF ALLOWED TO BECOME AIRBORNE, MAY CAUSE IRRITATION OF THE NOSE, THROAT AND LUNGS. SKIN/EYES: IRRITATION. CHRONIC: NONE SPECIFIED BY MANUFACTURER.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: BORDEN INC

Label Street: 180 EAST BROAD ST

Label P.O. Box:

Label City: COLUMBUS

Label State: OH

Label Zip Code: 43215

Label Country: US

Label Emergency Number: 614-431-6600

Year Procured:

---

**Section 1 - Product and Company Identification**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Product Identification:** ELMERS SAF-T CONTACT CEMENT, E461  
**Date of MSDS:** 04/29/1991 **Technical Review Date:** 01/27/1995  
**FSC:** 8040 **NIIN:** LIIN: 00N025407  
**Submitter:** N EN  
**Status Code:** C  
**MFN:** 01  
**Article:** N  
**Kit Part:** N

**Manufacturer's Information**

**Manufacturer's Name:** BORDEN CHEMICAL CO  
**Manufacturer's Address1:** 180 EAST BROAD ST  
**Manufacturer's Address2:** COLUMBUS, OH 43215  
**Manufacturer's Country:** US  
**General Information Telephone:** 800-848-9400; 614-431-6680  
**Emergency Telephone:** 614-431-6600  
**Emergency Telephone:** 614-431-6600  
**MSDS Preparer's Name:** N/P  
**Proprietary:** N  
**Reviewed:** N  
**Published:** Y  
**CAGE:** 86142  
**Special Project Code:** N

**Contractor Information**

**Contractor's Name:** BORDEN CHEMICAL CO  
**Contractor's Address1:** 180 E BROAD ST  
**Contractor's Address2:** COLUMBUS, OH 43215-3705  
**Contractor's Telephone:** 614-225-6124  
**Contractor's CAGE:** 86142

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**Section 2 - Composition/Information on Ingredients**  
**ELMERS SAF-T CONTACT CEMENT, E461**

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**Ingredient Name:** NON HAZARDOUS INGREDIENTS  
**Ingredient CAS Number:** **Ingredient CAS Code:** X  
**RTECS Number:** **RTECS Code:** X  
**=WT:** **=WT Code:**  
**=Volume:** **=Volume Code:**  
**>WT:** **>WT Code:**  
**>Volume:** **>Volume Code:**  
**<WT:** **<WT Code:**  
**<Volume:** **<Volume Code:**  
**% Low WT:** **% Low WT Code:**  
**% High WT:** **% High WT Code:**  
**% Low Volume:** **% Low Volume Code:**  
**% High Volume:** **% High Volume Code:**  
**% Text:** N/K  
**% Environmental Weight:**  
**Other REC Limits:** N/K

**OSHA PEL: NOT APPLICABLE OSHA PEL Code: M**  
**OSHA STEL: OSHA STEL Code:**  
**ACGIH TLV: NOT APPLICABLE ACGIH TLV Code: M**  
**ACGIH STEL: N/P ACGIH STEL Code:**  
**EPA Reporting Quantity:**  
**DOT Reporting Quantity:**  
**Ozone Depleting Chemical:**

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**Section 3 - Hazards Identification, Including Emergency Overview**  
**ELMERS SAF-T CONTACT CEMENT, E461**

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**Health Hazards Acute & Chronic:** SKIN ABSORPTION/INGEST: NOT TOXIC WHEN TESTED AS DESCRIBED IN 16 CFR PART 1500.3 (C) (1) AND (2). INHAL: NOT EXPECTED TO BE HARMFUL UNDER NORMAL CNDTNS OF USE. HOWEVER, IF ALLOWED TO BECOME AIRBORNE, MAY CAUSE IRRIT OF NOSE/THROAT/LUNGS. SKIN/EYES: NOT AN IRRITANT WHEN TESTED AS DESCRIBED IN 16 CFR PART 1500.41/42.

**Signs & Symptoms of Overexposure:**  
SEE HEALTH HAZARDS.

**Medical Conditions Aggravated by Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**LD50 LC50 Mixture:** NONE SPECIFIED BY MANUFACTURER.

**Route of Entry Indicators:**

**Inhalation:** YES

**Skin:** NO

**Ingestion:** YES

**Carcenogenicity Indicators**

**NTP:** NO

**IARC:** NO

**OSHA:** NO

**Carcinogenicity Explanation:** NOT RELEVANT

---

**Section 4 - First Aid Measures**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**First Aid:**  
INGEST: IF ACCIDENTLY SWALLOWED, DILUTE BY DRINKING LARGE QUANTITIES OF WATER. IMMEDIATELY CONTACT POIS CTL CTR OR HOSPITAL EMER ROOM FOR ANY OTHER ADDL TREATMENT DIRECTIONS. INHAL: REMOVE TO FRESH AI R. EYES: IMMEDIATELY FLUSH W/PLENTY OF WATER. CALL MD IF IRRIT PERSISTS. SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD (FP N).

---

**Section 5 - Fire Fighting Measures**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Fire Fighting Procedures:**

WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). WATER SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL.

**Unusual Fire or Explosion Hazard:**

WILL NOT BURN UNLESS WATER HAS EVAPORATED.

**Extinguishing Media:**

MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

**Flash Point:** Flash Point Text: NOT APPLICABLE

**Autoignition Temperature:**

**Autoignition Temperature Text:** N/A

**Lower Limit(s):** N/A

**Upper Limit(s):** N/A

---

**Section 6 - Accidental Release Measures**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Spill Release Procedures:**

SOAK UP WITH ABSORBENT MATERIAL AND REMOVE TO A CHEMICAL DISPOSAL AREA. PREVENT ENTRY INTO NATURAL BODIES OF WATER.

---

**Section 7 - Handling and Storage**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Handling and Storage Precautions:**

**Other Precautions:**

---

**Section 8 - Exposure Controls & Personal Protection**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Respiratory Protection:**

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

**Ventilation:**

IF AIRBORNE CONTAM ARE GENERATED WHEN MATL IS HEATED/HANDLED, SUFFICIENT VENT IN VOLUME & AIR FLOW PATTERNS (SUPP DATA)

**Protective Gloves:**

IMPERVIOUS GLOVES (FP N).

**Eye Protection:** CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:** NONE SPECIFIED BY MANUFACTURER.

**Work Hygenic Practices:** NONE SPECIFIED BY MANUFACTURER.

**Supplemental Health & Safety Information:** VENT: SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATION LEVELS BELOW ACCEPTABLE CRITERIA.

---

**Section 9 - Physical & Chemical Properties**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**HCC:** N1  
**NRC/State License Number:**  
**Net Property Weight for Ammo:**  
**Boiling Point: Boiling Point Text:** 212F,100C  
**Melting/Freezing Point: Melting/Freezing Text:** 32.0F,0.0C  
**Decomposition Point: Decomposition Text:** N/K  
**Vapor Pressure:** 17.5 @ 20C **Vapor Density:** <1  
**Percent Volatile Organic Content:**  
**Specific Gravity:** 1.1  
**Volatile Organic Content Pounds per Gallon:**  
**pH:** 6  
**Volatile Organic Content Grams per Liter:**  
**Viscosity:** N/P  
**Evaporation Weight and Reference:** <1 (BUTYL ACETATE = 1)  
**Solubility in Water:** DISPERSIBLE  
**Appearance and Odor:** WHITE MILKY LIQUID, ACRYLIC AROMA.  
**Percent Volatiles by Volume:** 50  
**Corrosion Rate:** N/K

---

**Section 10 - Stability & Reactivity Data**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Stability Indicator:** YES  
**Materials to Avoid:**  
NONE KNOWN TO MANUFACTURER.  
**Stability Condition to Avoid:**  
NORMALLY STABLE AS DEFINED IN NFPA 704-12(4-3.1).  
**Hazardous Decomposition Products:**  
OXIDES OF CARBON AND NITROGEN.  
**Hazardous Polymerization Indicator:** NO  
**Conditions to Avoid Polymerization:**  
NOT RELEVANT

---

**Section 11 - Toxicological Information**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Toxicological Information:**  
N/P

---

**Section 12 - Ecological Information**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Ecological Information:**  
N/P

---

**Section 13 - Disposal Considerations**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Waste Disposal Methods:**

RECOVER FREE LIQUID. ABSORB RESIDUE AND DISPOSE OF ACCORDING TO LOCAL, STATE/PROVINCIAL, AND FEDERAL REQUIREMENTS.

---

**Section 14 - MSDS Transport Information**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Transport Information:**

N/P

---

**Section 15 - Regulatory Information**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**SARA Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

---

**Section 16 - Other Information**  
**ELMERS SAF-T CONTACT CEMENT, E461**

---

**Other Information:**

N/P

**HMIS Transportation Information**

**Product Identification:** ELMERS SAF-T CONTACT CEMENT, E461

**Transportation ID Number:** 30078

**Responsible Party CAGE:** 86142

**Date MSDS Prepared:** 04/29/1991

**Date MSDS Reviewed:** 04/29/1992

**MFN:** 04/29/1992

**Submitter:** N TN

**Status Code:** C

**Container Information**

**Unit of Issue:** NK

**Container Quantity:** NK

**Type of Container:**

**Net Unit Weight:**

**Article without MSDS:** N

**Technical Entry NOS Shipping Number:**

**Radioactivity:**

**Form:**

**Net Explosive Weight:**

**Coast Guard Ammunition Code:**

**Magnetism:** N/P

**AF MMAC Code:**

**DOD Exemption Number:**

**Limited Quantity Indicator:**  
**Multiple Kit Number:** 0  
**Kit Indicator:** N  
**Kit Part Indicator:** N  
**Review Indicator:** Y  
**Additional Data:**  
NOT REGULATED FOR TRANSPORTATION

**Department of Transportation Information**

**DOT Proper Shipping Name:** NOT REGULATED BY THIS MODE OF TRANSPORTATION  
**DOT PSN Code:** ZZZ  
**Symbols:** N/R  
**DOT PSN Modifier:**  
**Hazard Class:** N/R  
**UN ID Number:** N/R  
**DOT Packaging Group:** N/R  
**Label:** N/R  
**Special Provision(s):** N/R  
**Packaging Exception:** N/R  
**Non Bulk Packaging:** N/R  
**Bulk Packaging:** N/R  
**Maximum Quantity in Passenger Area:** N/R  
**Maximum Quantity in Cargo Area:** N/R  
**Stow in Vessel Requirements:** N/R  
**Requirements Water/Sp/Other:** N/R

**IMO Detail Information**

**IMO Proper Shipping Name:** NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
**IMO PSN Code:** ZZZ  
**IMO PSN Modifier:**  
**IMDG Page Number:** N/R  
**UN Number:** N/R  
**UN Hazard Class:** N/R  
**IMO Packaging Group:** N/R  
**Subsidiary Risk Label:** N/R  
**EMS Number:** N/R  
**Medical First Aid Guide Number:** N/R

**IATA Detail Information**

**IATA Proper Shipping Name:** NOT REGULATED BY THIS MODE OF TRANSPORTATION  
**IATA PSN Code:** ZZZ  
**IATA PSN Modifier:**  
**IATA UN Id Number:** N/R  
**IATA UN Class:** N/R  
**Subsidiary Risk Class:** N/R  
**UN Packaging Group:** N/R  
**IATA Label:** N/R  
**Packaging Note for Passengers:** N/R  
**Maximum Quantity for Passengers:** N/R  
**Packaging Note for Cargo:** N/R  
**Maximum Quantity for Cargo:** N/R  
**Exceptions:** N/R

**AFI Detail Information**

**AFI Proper Shipping Name:** NOT REGULATED BY THIS MODE OF TRANSPORTATION  
**AFI Symbols:**  
**AFI PSN Code:** ZZZ  
**AFI PSN Modifier:**  
**AFI UN Id Number:** N/R

**AFI Hazard Class:** N/R  
**AFI Packing Group:** N/R  
**AFI Label:** N/R  
**Special Provisions:** N/A  
**Back Pack Reference:** N/A

**HAZCOM Label Information**

**Product Identification:** ELMERS SAF-T CONTACT CEMENT, E461  
**CAGE:** 86142  
**Assigned Individual:** N  
**Company Name:** BORDEN CHEMICAL CO  
**Company PO Box:**  
**Company Street Address1:** 180 E BROAD ST  
**Company Street Address2:** COLUMBUS, OH 43215-3705 US  
**Health Emergency Telephone:** 614-431-6600  
**Label Required Indicator:** Y  
**Date Label Reviewed:** 01/28/1992  
**Status Code:** C  
**Manufacturer's Label Number:**  
**Date of Label:** 01/28/1992  
**Year Procured:** N/K  
**Organization Code:** G  
**Chronic Hazard Indicator:** N  
**Eye Protection Indicator:** YES  
**Skin Protection Indicator:** YES  
**Respiratory Protection Indicator:** YES  
**Signal Word:** CAUTION  
**Health Hazard:** Slight  
**Contact Hazard:** None  
**Fire Hazard:** Slight  
**Reactivity Hazard:** None

---

Click [here](#) to go back to MSDS



Barnes Distribution

1301 E. 9th Street, #700  
Cleveland OH 44114  
(800) 726-9626



Material Safety Data  
Sheet

MSDS Form No. : 002220  
Item No. : C39170, C39171  
MATERIAL SAFETY DATA SHEET  
FAST ORANGE HAND CLEANER (25116)

-----SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

MSDS Name: FAST ORANGE HAND CLEANER (25116)  
Product CAS: (none)  
Product Code:  
Synonyms: 39170; 39170-1; 39171; 39171-1; 75453; C39171; FAST ORANGE  
HAND CLEANER (25116); FST  
ORNG PUMIC LTN 15FO BO  
Company Identification:  
Name: Loctite Corporation  
Address: 1001 Trout Brook Crossing  
Address:  
City: Rocky Hill State: CT Zip: 06067-3910  
For information, call: (203) 571-5100  
Emergency Number: 203-571-5100  
Emergency Agency:  
Number:  
MSDS Creation Date: 12/1/2005  
Supersedes Date: 1/1/2003  
Miscellaneous:  
ITEM NO.: 25116  
PART NO.: 25-116  
PRODUCT TYPE: INDUSTRIAL WATERLESS HANDCLEANER

CAS #: N/A  
CHEMICAL NAME: N/A  
BRIEF DESCRIPTION: N/A

-----SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS -----

Chemical Name	CAS	MIN	MAX
D-LIMONENE	5989-27-5	0	0

NONIONIC SURFACTANT	68154-97-2	5	5
PUMICE	1332-09-8	10	10
TERPENES AND TERPENOIDS, SWEET ORANGE-OI	68647-72-3	10	10
TRIETHANOLAMINE	102-71-6	1	1
WATER	7732-18-5	80	80

Miscellaneous:

\*\*\*D-LIMONENE IS A MAJOR FRACTION OF THE SWEET ORANGE OIL TERPENES/TERPENOIDS.

EXPOSURE LIMITS (TWA):

	ACGIH TLV	OSHA PEL	OTHER
PUMICE	10 MG/M3 TOTAL 5 MG/M3 RESP.	15 MG/M3 TOTAL	NONE

EXPOSURE LIMITS (STEL): INGREDIENTS FOR WHICH NO EXPOSURE LIMITS HAVE BEEN ESTABLISHED ARE NOT LISTED.

Lbs of VOC per Gallon Coating (minus water): 0.792

Coating Density (lbs/gal): 0

Solvent Density (lbs/gal): 0

Percent Solvent (volume): 0

Percent Solids (volume): 0

Percent Water (volume): 0

-----SECTION 3 - HAZARDS IDENTIFICATION -----

NFPA: Health: 1 Fire: 2 Reactivity: 0 Other:

HMIS: Health: 1 Fire: 2 Reactivity: 0 Special Protection:

POTENTIAL HEALTH EFFECTS

Target Organs:

Eye:

SIGNS AND SYMPTOMS OF EXPOSURE: NONE UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

Skin:

PRIMARY ROUTE OF ENTRY.

SIGNS AND SYMPTOMS OF EXPOSURE: NONE UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

Ingestion:

PRIMARY ROUTE OF ENTRY.

SIGNS AND SYMPTOMS OF EXPOSURE: NONE UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

Inhalation:

PRIMARY ROUTE OF ENTRY.

SIGNS AND SYMPTOMS OF EXPOSURE: NONE UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

Miscellaneous:

-----SECTION 4 - FIRST AID MEASURES -----

Eye:

FLUSH AT LEAST 15 MINUTES WITH WATER. OBTAIN MEDICAL ATTENTION.

Skin:

FLUSH WITH WATER.

Ingestion:

DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. OBTAIN MEDICAL ATTENTION.

Inhalation:

REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, OBTAIN MEDICAL ATTENTION.

Notes to Physician:

-----SECTION 5 - FIRE FIGHTING MEASURES -----

Unusual Fire and Explosion Hazards:

NONE.

COMPRESSED GASES: NONE.

PRESSURE AT ROOM TEMP.: DOES NOT APPLY.

Special Fire Fighting Procedures:

NO CORRESPONDING DATA IN MSDS PROVIDED BY MANUFACTURER

Extinguishing Media:

CARBON DIOXIDE, CHEMICAL POWDER.

Flash Point:

193 F. (METHOD: SETAFLASH CLOSED CUP).

Flammable Limits:

Lower Limit:

EXPLOSIVE LIMIT (LEL): (% BY VOLUME IN AIR): NOT AVAILABLE.

Upper Limit:

EXPLOSIVE LIMIT (UEL): (% BY VOLUME IN AIR): NOT AVAILABLE.

AutoIgnition Temperature:

N/A

General Information:

FLAMMABLE LIMITS: NO DATA

-----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

Disposal:

DISPOSE OF UNCONTAMINATED MATERIAL THROUGH SEWAGE SYSTEM WITH PERMISSION

OF THE AUTHORITY RESPONSIBLE FOR THAT SYSTEM. FOLLOW EPA AND LOCAL REGULATIONS.

Spills/Leaks:

RINSE AWAY WITH WATER OR WIPE UP WITH A TOWEL.

-----SECTION 7 - HANDLING and STORAGE -----

Handling:

FOLLOW ALL GENERAL SAFETY PRECAUTIONS. KEEP AWAY FROM CHILDREN.

Storage:

SAFE STORAGE: HAND CLEANER SHOULD BE STORED BETWEEN 40 F. AND 100 F.  
(CONTACT LOCTITE CUSTOMER SERVICE 800-243-4874 FOR SHELF LIFE  
INFORMATION).

-----SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION -----

Engineering Controls:

LOCAL EXHAUST: SOME LOCAL VENTILATION MAY BE DESIRED FOR PROLONGED  
EXPOSURE IN A CONFINED AREA.

MECHANICAL (GENERAL): NO CORRESPONDING DATA IN MSDS PROVIDED BY  
MANUFACTURER

SPECIAL VENTILATION: NO CORRESPONDING DATA IN MSDS PROVIDED BY  
MANUFACTURER

OTHER VENTILATION: NO CORRESPONDING DATA IN MSDS PROVIDED BY  
MANUFACTURER

Eyes:

NOT NORMALLY NEEDED, BUT SAFETY GLASSES OFFER INCREASED PROTECTION.

Skin:

PROTECTIVE GLOVES: NONE NORMALLY NEEDED.

Clothing:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NO CORRESPONDING DATA IN MSDS  
PROVIDED BY MANUFACTURER

Respirators:

(SPECIFY TYPE): NO CORRESPONDING DATA IN MSDS PROVIDED BY MANUFACTURER

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

Appearance/Odor:

WHITE LOTION WITH PUMICE. ODOR: ORANGE.

pH: 5.5

Vapor Pressure: (MM HG.): NOT AVAILABLE

Vapor Density: (AIR = 1): NOT AVAILABLE

Evaporation Rate: (ETHER = 1): NOT AVAILABLE

Viscosity: N/A

Boiling Point: NOT AVAILABLE.

Freezing/Melting Point: N/A

Decomposition Temperature: N/A

Solubility: IN WATER: SOLUBLE

Specific Gravity: 1.03

Molecular Formula: N/A

Molecular Weight: N/A

Miscellaneous:

VOLATILE ORGANIC COMPOUND (EPA METHOD 24): 9.2%; 95 GRAMS PER LITER OF  
MATERIAL.

-----SECTION 10 - STABILITY AND REACTIVITY -----

Chemical Stability:

STABLE: YES

Conditions to Avoid:

NO CORRESPONDING DATA IN MSDS PROVIDED BY MANUFACTURER

Incompatibilities with Other Materials:

NONE.

Hazardous Decomposition Products:

HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP.: IRRITATING  
ORGANIC  
VAPORS.

(NON-THERMAL): NONE.

Hazardous Polymerization:

MAY OCCUR: NO

-----SECTION 11 - TOXICOLOGICAL INFORMATION -----

Toxicological Information:

TOXICITY: ESTIMATED ORAL LD50 MORE THAN 5000 MG/KG

INGREDIENTS	LITERATURE REFERENCED TARGET ORGAN AND OTHER HEALTH EFFECTS	CARCINOGEN		
		NTP	IARC	OSHA
WATER	NO DATA	NO	NO	NO
PUMICE	NO DATA	NO	NO	NO
TERPENES AND TERPENOIDS, SWEET ORANGE-OIL	NO DATA	NO	NO	NO
D-LIMONENE	IRR	NO	N/A	NO
NONIONIC SURFACTANT	NO DATA	NO	NO	NO
TRIETHANOLAMINE	NO DATA	NO	NO	NO

ABBREVIATIONS:

N/A NOT APPLICABLE

IRR IRRITANT

-----SECTION 12 - ECOLOGICAL INFORMATION -----

Ecological Information:

NO DATA

-----SECTION 13 - OTHER PRECAUTIONS -----

Other Precautions:

NO CORRESPONDING DATA IN MSDS PROVIDED BY MANUFACTURER

Work/Hygienic Practices:

NO CORRESPONDING DATA IN MSDS PROVIDED BY MANUFACTURER

-----SECTION 14 - TRANSPORT INFORMATION -----

Transportation Information:

CATEGORY: ORM-D

SHIPPING REGULATIONS:  
DOT (49 CFR 172)  
DOMESTIC GROUND TRANSPORT  
PROPER SHIPPING NAME: UNRESTRICTED  
HAZARD CLASS OR DIVISION: UNRESTRICTED  
IDENTIFICATION NUMBER: NONE  
MARINE POLLUTANT: NONE

IATA  
PROPER SHIPPING NAME: UNRESTRICTED  
CLASS OR DIVISION: UNRESTRICTED  
UN OR ID NUMBER: NONE  
Label Information:

-----SECTION 15 - REGULATORY INFORMATION -----

Regulatory Information:  
NO DATA

-----SECTION 16 - ADDITIONAL INFORMATION -----

Additional Information:  
NO DATA

# SAFETY DATA SHEET



Issuing Date: 24-Feb-2015

Revision Date: 18-Apr-2016

Version 1.02

## 1. IDENTIFICATION

<b>Product Name</b>	Febreze Air Effects - Grapefruit Fizz
<b>Product ID:</b>	92351000_RET_NG
<b>Product Type:</b>	Finished Product - Consumer (Retail) Use Only
<b>Recommended Use</b>	Air freshener.
<b>Restrictions on Use</b>	Safe to use around dogs and cats. As with other care products, not for use around birds.
<b>Synonyms</b>	Febreze Air Effects - Sweet Citrus & Zest (92351000_ARET_NG) Febreze Air Effects - Pineapple Melon Spritzer (92351000_B_RET_NG) Febreze Air Effects - Hawaiian Aloha (92350915_RET_NG) Febreze Air Effects - Violet Bloom (92351337_RET_NG) Febreze Air Effects - Beach Bum (92351337_A_RET_NG) Febreze Air Effects - Wildflower (92351337_B_RET_NG) Febreze Air Effects - Brilliant Spring Blossoms (92351337_C_RET_NG) Febreze Air Effects - Holiday Bloom & Cheer (92351337_D_RET_NG) Febreze Air Effects FIRST BLOOM Champagne Blossoms (92351337_E_RET_NG) Febreze Sleep Serenity Bedroom Mist - Quiet Jasmine (96184853_RET_NG) Febreze Air Effects - Ginger Verbena (96333646_RET_NG) Febreze Air Effects - Rain (96333646_A_RET_NG) Febreze Air Effects FRESH SKY Airy Clouds (96333646_B_RET_NG)
<b>Manufacturer</b>	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA  Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
<b>E-mail Address</b>	pgsds.im@pg.com
<b>Emergency Telephone</b>	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

**Gases Under Pressure** Compressed Gas

**Signal Word** WARNING

### Hazard Statements

Contains gas under pressure; may explode if heated

### Hazard pictograms



**Precautionary Statements** Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Response** None

**Precautionary Statements - Storage** Protect from sunlight. Store in a well-ventilated place

**Precautionary Statements - Disposal** None

**Hazards not otherwise classified (HNOC)** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Ethanol	Ethanol	No	64-17-5	1 - 5

## 4. FIRST AID MEASURES

### First aid measures for different exposure routes

**Eye contact** Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact** Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed** None under normal use conditions.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. Dry chemical. Alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special hazard</b>	Containers may explode when heated or if contaminated with water.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	Containers may explode when heated.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.
<b>Environmental precautions</b>	Keep out of waterways Do not discharge product into natural waters without pre-treatment or adequate dilution

### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not puncture or incinerate cans.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
--------------------------------	---

### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible products</b>	None known.
<b>Aerosol Classification Level</b>	1

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m <sup>3</sup>

			(vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	
--	--	--	--	--

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	STEL: 1000 ppm

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** aerosols  
**Appearance** Clear  
**Odor** Scented  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	4.7 - 5.3	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	51.6 - 60 °C / 125 - 140 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	

<b>Flammability Limits in Air</b>	
Upper flammability limit	No information available
Lower Flammability Limit	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Relative density</b>	0.987 - 1.0
<b>Water solubility</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity of Product</b>	No information available
<b>VOC Content (%)</b>	Products comply with US state and federal regulations for VOC content in consumer products.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	None under normal processing.
<b>Materials to avoid</b>	None in particular.
<b>Hazardous Decomposition Products</b>	None under normal use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

<b>Inhalation</b>	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
<b>Skin contact</b>	No known effect.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	No known effect.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/eye irritation</b>	No known effect.
<b>Skin sensitization</b>	No known effect.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.

### Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	64-17-5	10470 mg/kg bw (OECD 401)	-	116.9 mg/L air (//OECD 403)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not expected to be hazardous to the environment.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

<b>Waste from Residues / Unused Products</b>	Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State environmental agency for guidance.
<b>Contaminated packaging</b>	Pressurized container: Do not pierce or burn, even after use.
<b>California Hazardous Waste Codes (non-household setting)</b>	331
<b>Disposal recommendations</b>	Products covered by this SDS, in their original form, when disposed from a commercial facility as waste, are ignitable hazardous waste, D001, according to Federal RCRA regulations(40 CFR 261). Disposal should be in accordance with Local, State and Federal regulations.

## 14. TRANSPORT INFORMATION

### DOT

<b>UN no</b>	UN1950
<b>UN Proper shipping name</b>	Aerosols
<b>Description</b>	UN1950, Aerosols, 2.2
<b>Hazard Class</b>	2.2
<b>Emergency Response Guide Number</b>	126

### IMDG

<b>UN Number</b>	UN1950
<b>UN Proper shipping name</b>	Aerosols
<b>Description</b>	UN1950, Aerosols, 2.2
<b>Transport hazard class(es)</b>	2.2
<b>EmS-No</b>	F-D, S-U

### IATA

<b>UN no</b>	UN1950
<b>UN Proper shipping name</b>	Aerosols, non-flammable
<b>Description</b>	UN1950, Aerosols, non-flammable, 2.2
<b>Hazard Class</b>	2.2
<b>ERG Code</b>	2L

## 15. REGULATORY INFORMATION

### 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

**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

**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.

**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)

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.  
Ethanol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X

Chemical Name	CAS-No	Massachusetts
Ethanol	64-17-5	X

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	X

**International Inventories****United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

<b>16. OTHER INFORMATION</b>
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**Issuing Date:** 24-Feb-2015

**Revision Date:** 18-Apr-2016

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 24-Mar-2016

Revision Date: 03-Aug-2017

Version 1.02

## 1. IDENTIFICATION

<b>Product Name</b>	Febreze Air Effects Spring and Renewal
<b>Product Identifier</b>	90699375_RET_NG
<b>Product Type:</b>	Finished Product - Consumer (Retail) Use Only
<b>Recommended Use</b>	Air freshener.
<b>Synonyms</b>	Febreze Air Effects Meadows and Rain (96596196_RET_NG) Febreze Air Effects Gain Original (90712369_RET_NG) Febreze Air Effects Linen and Sky (96422185_RET_NG) Febreze Air Effects Gain Island Fresh (90712364_RET_NG)
<b>Details of the supplier of the safety data sheet</b>	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA  Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
<b>E-mail Address</b>	pgsds.im@pg.com
<b>Emergency Telephone</b>	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

<b>Gases Under Pressure</b>	Compressed Gas
<b>Signal Word</b>	WARNING
<b>Hazard Statements</b>	Contains gas under pressure; may explode if heated
<b>Hazard pictograms</b>	



**Precautionary Statements** Pressurized container: Do not pierce or burn, even after use  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Do not spray on an open flame or other ignition source  
P410 + P403 - Protect from sunlight. Store in a well-ventilated place

**Precautionary Statements - Response** None

**Precautionary Statements - Storage** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**Precautionary Statements - Disposal** None

**Hazards not otherwise classified (HNOC)** None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Ethanol	Ethanol	No	64-17-5	1 - 5
Nitrogen	Nitrogen	No	7727-37-9	0.5 - 1.5

### 4. FIRST AID MEASURES

**First aid measures for different exposure routes**

**Eye contact** Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact** Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed** None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Dry chemical. Alcohol-resistant foam.

<b>Unsuitable Extinguishing Media</b>	None.
<b>Special hazard</b>	Extremely flammable. May form explosive mixtures with air.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

**6. ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.
<b>Environmental precautions</b>	Keep out of waterways Do not discharge product into natural waters without pre-treatment or adequate dilution

**Methods and materials for containment and cleaning up**

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Ventilate the area.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not puncture or incinerate cans. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

<b>Advice on safe handling</b>	Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children. Keep away from open flames, hot surfaces and sources of ignition. Observe label precautions. Avoid breathing vapors or mists.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible products</b>	None known.

**NFPA Aerosol Classification Level** 1

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m <sup>3</sup>

Nitrogen	7727-37-9	: See Appendix F: Minimal Oxygen Content	mg/m <sup>3</sup>	
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Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	STEL: 1000 ppm

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of inadequate ventilation wear respiratory protection

**Hygiene Measures**

Avoid breathing vapors, mist or gas  
When using, do not eat, drink or smoke

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** aerosols  
**Appearance** Clear light yellow  
**Odor** Perfume  
**Odor threshold** No information available

Property	Values	Note
<b>pH value</b>	4.5	
<b>Melting/freezing point</b>	No information available	

<b>Boiling point / boiling range</b>	83 °C / 181 °F	
<b>Flash point</b>	50 °C / 122 °F	Closed cup. Does not sustain combustion.
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	0.987-0.999	
<b>Water solubility</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity of Product</b>	1 – 10mPa-s mm2/s	
<b>VOC Content (%)</b>	Products comply with US state and federal regulations for VOC content in consumer products.	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	None in particular.
<b>Hazardous Decomposition Products</b>	None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

<b>Inhalation</b>	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
<b>Skin contact</b>	No known effect.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	No known effect.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/eye irritation</b>	No known effect.
<b>Skin sensitization</b>	No known effect.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.

**Component Information**

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	64-17-5	10470 mg/kg bw (OECD 401)	-	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not expected to be hazardous to the environment.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste from Residues / Unused Products** Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State environmental agency for guidance. Products covered by this MSDS, in their original form, when disposed as waste, are ignitable hazardous waste, D001, according to Federal RCRA regulations(40 CFR 261).

**Contaminated packaging** Pressurized container: Do not pierce or burn, even after use. Empty containers may contain flammable or explosive vapors.

**California Hazardous Waste Codes (non-household setting)** 331

**14. TRANSPORT INFORMATION**

**DOT**

**UN no** UN1950  
**UN Proper shipping name** Aerosols  
**Description** UN1950, Aerosols, 2.2  
**Hazard Class** 2.2  
**Emergency Response Guide Number** 126

**IMDG**

**UN Number** UN1950  
**UN Proper shipping name** Aerosols  
**Description** UN1950, Aerosols, 2 (2)  
**Transport hazard class(es)** 2  
**Special precautions for user** 63,190, 277, 327, 344, 959  
**EmS-No** F-D, S-U

**IATA**

**UN no** UN1950  
**UN Proper shipping name** Aerosols, non-flammable  
**Description** UN1950, Aerosols, non-flammable, 2.2  
**Hazard Class** 2.2  
**ERG Code** 2L

**15. REGULATORY INFORMATION**

**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

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

**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.

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	X

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X
Nitrogen	7727-37-9	X

Chemical Name	CAS-No	Massachusetts
Ethanol	64-17-5	X
Nitrogen	7727-37-9	X

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	X
Nitrogen	7727-37-9	X
Dipropylene Glycol	25265-71-8	X
Triethanol amine	102-71-6	X

**International Inventories**

**United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

CEPA - Canadian Environmental Protection Act

## 16. OTHER INFORMATION

**Issuing Date:** 24-Mar-2016

**Revision Date:** 03-Aug-2017

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 16-Apr-2015

Revision Date: 16-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Apple Delish (2 of 2)

**Product ID:** 97307934\_A\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 97169929

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Skin corrosion/irritation** Category 2  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes skin irritation  
May cause an allergic skin reaction  
Combustible liquid

**Hazard pictograms**



**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before re-use  
If skin irritation or rash occurs: Get medical advice/attention  
In case of fire: Use water, CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
PPG-2 Methyl Ether	-	No	34590-94-8	35 - 40
3,5,5-Trimethylhexyl acetate	-	No	58430-94-7	25 - 30
Eugenol	-	No	97-53-0	1 - 5
Amyl Cinnamal	-	No	122-40-7	1 - 5
Benzyl Acetate	-	No	140-11-4	0.5 - 1.5
Amyl Acetate	-	No	628-63-7	0.5 - 1.5
Limonene	-	No	5989-27-5	0.5 - 1.5
Cinnamitrile (isomer unspecified)	-	No	1885-38-7	0.5 - 1.5
Coumarin	-	No	91-64-5	0.5 - 1.5
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.1 - 1.0
Delta-Damascone	-	No	57378-68-4	0.1 - 1.0
Eucalyptol	-	No	470-82-6	0.1 - 1.0
Geranyl acetate	-	No	105-87-3	0.1 - 1.0

**4. FIRST AID MEASURES**

**First aid measures for different exposure routes**

**Eye contact**

Rinse with plenty of water. Get medical attention immediately if irritation persists.

<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

<b>Advice on safe handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.
<b>Incompatible products</b>	None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Amyl Acetate	628-63-7	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	Mexico: TWA 100 ppm Mexico: TWA 530 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 800 mg/m <sup>3</sup>
Benzyl Acetate	140-11-4	TWA: 10 ppm		

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Amyl Acetate	628-63-7	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup> STEL: 100 ppm STEL: 532 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup> STEL: 100 ppm STEL: 532 mg/m <sup>3</sup>	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**  
For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** liquid  
**Appearance** clear to amber  
**Odor** Scented  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	71 - 72 °C / 159.5 - 161 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	< 2 mm Hg	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Not soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	.
<b>Decomposition temperature</b>	No information available	.
<b>Viscosity of Product</b>	No information available	

**VOC Content (%)** Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

**Reactivity** None under normal use conditions.  
**Stability** Stable under normal conditions.  
**Hazardous polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.  
**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.  
**Materials to avoid** None in particular.  
**Hazardous Decomposition Products** None under normal use.

**11. TOXICOLOGICAL INFORMATION**

Product Information

**Information on likely routes of exposure**

**Inhalation** No known effect.  
**Skin contact** Irritating to skin. May cause sensitization by skin contact.  
**Ingestion** No known effect.  
**Eye contact** No known effect.

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

**Acute toxicity** No known effect.  
**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** No known effect.  
**Skin sensitization** May cause sensitization by skin contact.  
**Respiratory sensitization** No known effect.  
**Germ cell mutagenicity** No known effect.  
**Neurological Effects** No known effect.  
**Reproductive toxicity** No known effect.  
**Developmental toxicity** No known effect.  
**Teratogenicity** No known effect.  
**STOT - single exposure** No known effect.  
**STOT - repeated exposure** No known effect.  
**Target Organ Effects** No known effect.  
**Aspiration hazard** No known effect.  
**Carcinogenicity** No known effect.

**Component Information**

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cinnamonnitrile (isomer unspecified)	1885-38-7	275 mg/kg (rat)	1910 mg/kg (rabbit)	-
Coumarin	91-64-5	500 mg/kg (rat)	-	-
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Hazardous to the Aquatic Environment.

**Persistence and degradability** No information available.  
**Bioaccumulative potential** No information available.  
**Mobility** No information available.  
**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste from Residues / Unused Products** 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 Codes (non-household setting)** 331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (3,5,5-Trimethylhexyl acetate, 2-t-Butylcyclohexyl Acetate), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (3,5,5-Trimethylhexyl acetate, 2-t-Butylcyclohexyl Acetate), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Amyl Acetate	628-63-7	5000 lb	-	

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Amyl Acetate	628-63-7	5000 lb	-	-	X

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
PPG-2 Methyl Ether	34590-94-8	X
Amyl Acetate	628-63-7	X
Benzyl Acetate	140-11-4	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X
Ethyl hexanoate	123-66-0	X
Amyl Acetate	628-63-7	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Ethyl hexanoate	123-66-0	X
Amyl Acetate	628-63-7	X

**International Inventories**

**United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

**16. OTHER INFORMATION**

**Issuing Date:** 16-Apr-2015

**Revision Date:** 16-Apr-2015

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 07-Dec-2016

Revision Date: 07-Dec-2016

Version 1

This Safety Data Sheet (SDS) is not required under local legislation, implementing the UN Globally Harmonized System (GHS). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product

## 1. IDENTIFICATION

<b>Product Name</b>	Febreze Noticeables Air Freshener – Fresh Pressed Apple (1 of 2)
<b>Product Identifier</b>	90942859_RET_NG
<b>Product Type:</b>	Finished Product - Consumer (Retail) Use Only
<b>Recommended Use</b>	Air freshener.
<b>Restrictions on Use</b>	Use only as directed on label.
<b>Synonyms</b>	90804220_RET_NG
<b>Details of the supplier of the safety data sheet</b>	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA  Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
<b>E-mail Address</b>	pgsds.im@pg.com
<b>Emergency Telephone</b>	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

### Hazard Category

<b>Skin sensitization</b>	Category 1
<b>Flammable Liquids</b>	Category 4

<b>Signal Word</b>	WARNING
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<b>Hazard Statements</b>	May cause an allergic skin reaction Combustible liquid
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Hazard pictograms



Precautionary Statements

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

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 SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
In case of fire: Use water, CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal None

Hazards not otherwise classified (HNOC) None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
PPG-2 Methyl Ether	PPG-2 Methyl Ether	No	34590-94-8	5 - 10
Methylcinnamic Aldehyde	2-Propenal, 2-methyl-3-phenyl-	No	101-39-3	5 - 10
Trimethylhexyl Acetate	1-Hexanol, 3,5,5-trimethyl-, 1-acetate	No	58430-94-7	5 - 10
Limonene	D-Limonene	No	5989-27-5	1 - 5
Eugenol	Phenol, 2-methoxy-4-(2-propen-1-yl)-	No	97-53-0	1 - 5
Dibenzyl ether	Benzene, 1,1'-[oxybis(methylene)]bis-	No	103-50-4	1 - 5
Benzyl Acetate	Acetic acid, phenylmethyl ester	No	140-11-4	1 - 5
2,6-Dimethyl-7-Octen-2-ol	2,6-Dimethyl-7-octen-2-ol	No	18479-58-8	1 - 5
Cinnamonnitrile	Cinnamyl Nitrile	No	1885-38-7	0.5 - 1.5
Linalool	1,6-Octadien-3-ol, 3,7-dimethyl-	No	78-70-6	0.5 - 1.5
Isocyclocitral	Isocyclocitral	No	1335-66-6	0.5 - 1.5
Delta-Damascone	delta Damascone	No	57378-68-4	0.5 - 1.5
p-Menthan-7-ol	Mayol	No	13828-37-0	0.1 - 1.0
Pentamethyl Octahydroindenodioxane	Indeno[4,5-d]-1,3-dioxin, 4,4a,5,6,7,8,9,9b-octahydro-7,7,8,9,9-pentamethyl-	No	365411-50-3	0.1 - 1.0
Coumarin	2H-1-Benzopyran-2-one	No	91-64-5	0.1 - 1.0

2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	3-Cyclohexene-1-carbox aldehyde, 2,4-dimethyl-	No	68039-49-6	0.1 - 1.0
Cyclamen Aldehyde	Cyclamen Aldehyde	No	103-95-7	0.1 - 1.0

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

##### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

##### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**

Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

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

**Storage Conditions**

Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products**

None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Benzyl Acetate	140-11-4	TWA: 10 ppm		

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**  
For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
 Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
 No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
 Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
 No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
 In case of inadequate ventilation wear respiratory protection

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State @20°C</b>	Liquid	
<b>Appearance</b>	Yellow	
<b>Odor</b>	characteristic	
<b>Odor threshold</b>	No information available	
<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	72.5 °C / 162.5 °F	Closed cup.
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	.
<b>Decomposition temperature</b>	No information available	.
<b>Viscosity of Product</b>	No information available	
<b>VOC Content (%)</b>	Products comply with US state and federal regulations for VOC content in consumer products.	

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid</b>	None in particular.
<b>Hazardous Decomposition Products</b>	None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

<b>Inhalation</b>	No known effect.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	No known effect.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/eye irritation</b>	No known effect.
<b>Skin sensitization</b>	May cause sensitization by skin contact.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.

### Component Information

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Methylcinnamic Aldehyde	101-39-3	2050 mg/kg bodyweight (rat)	-	-
Eugenol	97-53-0	2300 mg/kg bodyweight (rat)	-	-
Cinnamionitrile	1885-38-7	275 mg/kg (rat)	1910 mg/kg (rabbit)	-
Linalool	78-70-6	2790 mg/kg bodyweight (rat)	-	-
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-
Coumarin	91-64-5	500 mg/kg (rat)	-	-
Cyclamen Aldehyde	103-95-7	3810 mg/kg bodyweight (rat)	-	-

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Hazardous to the Aquatic Environment.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

**Waste from Residues / Unused Products** 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 Codes (non-household setting)** 331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-t-Butylcyclohexyl Acetate, Trimethylhexyl Acetate), 9, III, Marine pollutant  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-t-Butylcyclohexyl Acetate, Trimethylhexyl Acetate), 9, III  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L

**15. REGULATORY INFORMATION**

**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

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Isoamyl Acetate	123-92-2	5000 lb	-	

**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.

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances

Isoamyl Acetate	123-92-2	-	-	-	X
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**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
PPG-2 Methyl Ether	34590-94-8	X
Benzyl Acetate	140-11-4	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Dipropylene Glycol	25265-71-8	X
Isoamyl Acetate	123-92-2	X

**International Inventories**

**United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

**16. OTHER INFORMATION**

**Issuing Date:** 07-Dec-2016

**Revision Date:** 07-Dec-2016

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 16-Apr-2015

Revision Date: 16-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Gain Original Scent (1 of 2)

**Product ID:** 97105261\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 97071854

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Skin corrosion/irritation** Category 2  
**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

Combustible liquid

**Hazard pictograms**



**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before re-use  
If skin irritation or rash occurs: Get medical advice/attention  
In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Linalool	-	No	78-70-6	10 - 15
3,5,5-Trimethylhexyl acetate	-	No	58430-94-7	5 - 10
2,6-Dimethyl-7-Octen-2-ol	-	No	18479-58-8	5 - 10
Benzyl Acetate	-	No	140-11-4	5 - 10
Limonene	-	No	5989-27-5	5 - 10
Pentamethylheptenone	-	No	81786-74-5	5 - 10
PPG-2 Methyl Ether	-	No	34590-94-8	1 - 5
Hydroxycitronellal	-	No	107-75-5	1 - 5
Linalyl acetate	-	No	115-95-7	1 - 5
4-tert-Butylcyclohexyl acetate	-	No	32210-23-4	1 - 5
Tetramethyl Acetyloctahydronaphthalenes	-	No	54464-57-2	1 - 5
Ethyl Trimethylcyclopentene Butenol	-	No	28219-61-6	1 - 5
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	1 - 5
Alpha-Isomethyl Ionone	-	No	127-51-5	1 - 5
Eugenol	-	No	97-53-0	1 - 5
2-Methylundecanal	-	No	110-41-8	0.1 - 1.0
(2R-cis)-Tetrahydro-4-methyl-2-(2-methyl-1-propenyl)-2H-pyran	-	No	16409-43-1	0.1 - 1.0

Dimethylcyclohexenyl 3-Butenyl Ketone	-	No	56973-85-4	0.1 - 1.0
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#### 4. FIRST AID MEASURES

**First aid measures for different exposure routes**

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**                      Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

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

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Benzyl Acetate	140-11-4	TWA: 10 ppm		
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures** **Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection** **Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection** **Distribution, Workplace and Household Settings:**  
For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** liquid  
**Appearance** clear to amber  
**Odor** Scented  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	72.8 - 87 °C / 163 - 189 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	< 2 mm Hg	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Not soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	.
<b>Decomposition temperature</b>	No information available	.
<b>Viscosity of Product</b>	No information available	

**VOC Content (%)** Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

**Reactivity** None under normal use conditions.  
**Stability** Stable under normal conditions.  
**Hazardous polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.  
**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.  
**Materials to avoid** None in particular.  
**Hazardous Decomposition Products** None under normal use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

Inhalation	No known effect.
Skin contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	No known effect.
Eye contact	Causes serious eye irritation.

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

Acute toxicity	No known effect.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Skin sensitization	May cause sensitization by skin contact.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No known effect.
Neurological Effects	No known effect.
Reproductive toxicity	No known effect.
Developmental toxicity	No known effect.
Teratogenicity	No known effect.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	No known effect.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Hazardous to the Aquatic Environment.

Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility	No information available.
Other adverse effects	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

Waste from Residues / Unused Products	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 Codes (non-household setting)	331

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
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**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (3,5,5-Trimethylhexyl acetate, Limonene), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (3,5,5-Trimethylhexyl acetate, Limonene), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

**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)

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Benzyl Acetate	140-11-4	X

Limonene	5989-27-5	X
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Dipropylene Glycol	25265-71-8	X

### International Inventories

#### **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### **Canada**

This product is in compliance with CEPA for import by P&G.

#### Legend

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

**CEPA** - Canadian Environmental Protection Act

## 16. OTHER INFORMATION

**Issuing Date:** 16-Apr-2015

**Revision Date:** 16-Apr-2015

#### **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 SDS**

# SAFETY DATA SHEET



Issuing Date: 07-May-2015

Revision Date: 07-May-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Heavy Duty Crisp Clean (1 of 2)

**Product ID:** 96451167\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 96291601

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Skin corrosion/irritation** Category 2  
**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

Combustible liquid

**Hazard pictograms**



**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before re-use  
If skin irritation or rash occurs: Get medical advice/attention  
In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
PPG-2 Methyl Ether	-	No	34590-94-8	40 - 100
Benzyl Acetate	-	No	140-11-4	5 - 10
Linalool	-	No	78-70-6	5 - 10
2,6-Dimethyl-7-Octen-2-ol	-	No	18479-58-8	1 - 5
Linalyl acetate	-	No	115-95-7	1 - 5
Cyclamen Aldehyde	-	No	103-95-7	1 - 5
Limonene	-	No	5989-27-5	1 - 5
Terpineol	-	No	8000-41-7	1 - 5
Nopyl acetate	-	No	128-51-8	0.1 - 1.0
Acetylcedrene	-	No	32388-55-9	0.1 - 1.0
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.1 - 1.0
beta-Pinene	-	No	127-91-3	0.1 - 1.0
Lauraldehyde	-	No	112-54-9	0.1 - 1.0
Geranyl acetate	-	No	105-87-3	0.1 - 1.0

**4. FIRST AID MEASURES**

**First aid measures for different exposure routes**

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

**6. ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

<b>Advice on safe handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
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**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Benzyl Acetate	140-11-4	TWA: 10 ppm		
beta-Pinene	127-91-3	TWA: 20 ppm		

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
beta-Pinene	127-91-3	TWA: 20 ppm TWA: 111 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 20 ppm Sensitizer

No relevant exposure guidelines for other ingredients

### Exposure controls

#### **Engineering Measures**

#### **Distribution, Workplace and Household Settings:**

Ensure adequate ventilation

#### **Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

### Personal Protective Equipment

#### **Eye Protection**

#### **Distribution, Workplace and Household Settings:**

No special protective equipment required

#### **Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Use appropriate eye protection

#### **Hand Protection**

#### **Distribution, Workplace and Household Settings:**

For sensitive skin or prolonged use, wear gloves

#### **Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Protective gloves

#### **Skin and Body Protection**

#### **Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
 Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
 No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
 In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State @20°C</b>	liquid	
<b>Appearance</b>	clear to amber	
<b>Odor</b>	Scented	
<b>Odor threshold</b>	No information available	
<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	66.5 - 75 °C / 152 - 167 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	< 2 mm Hg	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Not soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	.
<b>Decomposition temperature</b>	No information available	.
<b>Viscosity of Product</b>	No information available	
<b>VOC Content (%)</b>	Products comply with US state and federal regulations for VOC content in consumer products.	

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid</b>	None in particular.
<b>Hazardous Decomposition Products</b>	None under normal use.

**11. TOXICOLOGICAL INFORMATION**

Product Information  
 Information on likely routes of exposure

<b>Inhalation</b>	No known effect.
<b>Skin contact</b>	Irritating to skin. May cause sensitization by skin contact.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	Causes serious eye irritation.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Skin sensitization</b>	May cause sensitization by skin contact.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Hazardous to the Aquatic Environment.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

<b>Waste from Residues / Unused Products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>California Hazardous Waste Codes (non-household setting)</b>	331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

<b>UN Number</b>	UN3082
<b>UN Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Limonene, Terpinyl Acetate), 9, III, Ltd. Qty.
<b>Transport hazard class(es)</b>	9

**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Limonene, Terpinyl Acetate), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Isoamyl Acetate	123-92-2	5000 lb	-	

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isoamyl Acetate	123-92-2	-	-	-	X

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
PPG-2 Methyl Ether	34590-94-8	X
Benzyl Acetate	140-11-4	X
Limonene	5989-27-5	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Dipropylene Glycol	25265-71-8	X
Isoamyl Acetate	123-92-2	X

### International Inventories

#### **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### **Canada**

This product is in compliance with CEPA for import by P&G.

#### Legend

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

**CEPA** - Canadian Environmental Protection Act

## 16. OTHER INFORMATION

**Issuing Date:** 07-May-2015

**Revision Date:** 07-May-2015

#### **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 SDS**

# SAFETY DATA SHEET



Issuing Date: 15-Apr-2015

Revision Date: 15-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Linen & Sky (1 of 2)

**Product ID:** 97007110\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 96934508

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Skin corrosion/irritation** Category 2  
**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

Combustible liquid

## Hazard pictograms



## Precautionary Statements - Prevention

Wash hands thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed

## 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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
 Drink 1 or 2 glasses of water  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before re-use  
 If skin irritation or rash occurs: Get medical advice/attention  
 In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

## Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

## Precautionary Statements - Disposal

None

## Hazards not otherwise classified (HNOC)

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
2,6-Dimethyl-7-Octen-2-ol	-	No	18479-58-8	15 - 20
Benzyl Acetate	-	No	140-11-4	15 - 20
PPG-2 Methyl Ether	-	No	34590-94-8	5 - 10
Linalool	-	No	78-70-6	5 - 10
4-tert-Butylcyclohexyl acetate	-	No	32210-23-4	5 - 10
Amyl Cinnamal	-	No	122-40-7	1 - 5
Allyl (3-methylbutoxy)acetate	-	No	67634-00-8	1 - 5
Dimentol	-	No	13254-34-7	0.5 - 1.5
Cyclamen Aldehyde	-	No	103-95-7	0.5 - 1.5
Coumarin	-	No	91-64-5	0.5 - 1.5
Eucalyptol	-	No	470-82-6	0.5 - 1.5
Citronellol	-	No	106-22-9	0.5 - 1.5
Citral	-	No	5392-40-5	0.5 - 1.5
Hydroxycitronellal	-	No	107-75-5	0.5 - 1.5
Alpha-Isomethyl Ionone	-	No	127-51-5	0.1 - 1.0
Delta-Damascone	-	No	57378-68-4	0.1 - 1.0
Lauraldehyde	-	No	112-54-9	0.1 - 1.0
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.1 - 1.0
Carvone	-	No	99-49-0	0.1 - 1.0

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

##### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to Physician</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO <sub>2</sub> , dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

##### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

**Advice on safe handling** Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

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

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Benzyl Acetate	140-11-4	TWA: 10 ppm		
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Citral	5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*		

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Citral	5392-40-5			TWA: 5 ppm Skin	

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**

Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**

For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** liquid  
**Appearance** clear to amber  
**Odor** Scented  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	75.5 - 77.8 °C / 168 - 172 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>Vapor pressure</b>	< 2 mm Hg	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Not soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	.
<b>Decomposition temperature</b>	No information available	.
<b>Viscosity of Product</b>	No information available	

**VOC Content (%)** Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

**Reactivity** None under normal use conditions.

**Stability** Stable under normal conditions.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Materials to avoid** None in particular.

**Hazardous Decomposition Products** None under normal use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

**Inhalation** No known effect.  
**Skin contact** Irritating to skin. May cause sensitization by skin contact.  
**Ingestion** No known effect.  
**Eye contact** Causes serious eye irritation.

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

**Acute toxicity** No known effect.  
**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** Causes serious eye irritation.  
**Skin sensitization** May cause sensitization by skin contact.  
**Respiratory sensitization** No known effect.  
**Germ cell mutagenicity** No known effect.  
**Neurological Effects** No known effect.  
**Reproductive toxicity** No known effect.  
**Developmental toxicity** No known effect.  
**Teratogenicity** No known effect.  
**STOT - single exposure** No known effect.  
**STOT - repeated exposure** No known effect.  
**Target Organ Effects** No known effect.  
**Aspiration hazard** No known effect.  
**Carcinogenicity** No known effect.

### Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Allyl (3-methylbutoxy)acetate	67634-00-8	730 mg/kg (rat)	-	-
Coumarin	91-64-5	500 mg/kg (rat)	-	-
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Hazardous to the Aquatic Environment.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

**Waste from Residues / Unused Products** 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 Codes 331  
(non-household setting)

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

**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)

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Benzyl Acetate	140-11-4	X
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Dipropylene Glycol	25265-71-8	X

**International Inventories**

**United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

**16. OTHER INFORMATION**

**Issuing Date:** 15-Apr-2015

**Revision Date:** 15-Apr-2015

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 15-Apr-2015

Revision Date: 15-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Mediterranean Lavender (1 of 2)

**Product ID:** 97007223\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 96934508

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
May cause an allergic skin reaction  
Combustible liquid

**Hazard pictograms**



**Precautionary Statements -  
Prevention**

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before re-use  
If skin irritation or rash occurs: Get medical advice/attention  
In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements -  
Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements -  
Disposal**

None

**Hazards not otherwise classified  
(HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
2,6-Dimethyl-7-Octen-2-ol	-	No	18479-58-8	15 - 20
Benzyl Acetate	-	No	140-11-4	15 - 20
PPG-2 Methyl Ether	-	No	34590-94-8	5 - 10
Linalool	-	No	78-70-6	5 - 10
4-tert-Butylcyclohexyl acetate	-	No	32210-23-4	5 - 10
Amyl Cinnamal	-	No	122-40-7	1 - 5
Allyl (3-methylbutoxy)acetate	-	No	67634-00-8	1 - 5
Dimentol	-	No	13254-34-7	0.5 - 1.5
Cyclamen Aldehyde	-	No	103-95-7	0.5 - 1.5
Coumarin	-	No	91-64-5	0.5 - 1.5
Eucalyptol	-	No	470-82-6	0.5 - 1.5
Citronellol	-	No	106-22-9	0.5 - 1.5
Citral	-	No	5392-40-5	0.5 - 1.5
Hydroxycitronellal	-	No	107-75-5	0.5 - 1.5
Alpha-Isomethyl Ionone	-	No	127-51-5	0.1 - 1.0
Delta-Damascone	-	No	57378-68-4	0.1 - 1.0
Lauraldehyde	-	No	112-54-9	0.1 - 1.0
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.1 - 1.0
Carvone	-	No	99-49-0	0.1 - 1.0

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

##### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to Physician</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

##### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

<b>Advice on safe handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in
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original containers for re-use. Keep out of the reach of children.

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

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Benzyl Acetate	140-11-4	TWA: 10 ppm		
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Citral	5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*		

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Citral	5392-40-5			TWA: 5 ppm Skin	

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**  
For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State @20°C</b>	liquid
<b>Appearance</b>	clear to amber
<b>Odor</b>	Scented
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH value</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	71 - 83 °C / 159.5 - 181 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
Upper flammability limit	No information available	
Lower Flammability Limit	No information available	
<b>Vapor pressure</b>	< 2 mm Hg	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Not soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity of Product</b>	No information available	

**VOC Content (%)** Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid</b>	None in particular.

**Hazardous Decomposition Products** None under normal use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

<b>Inhalation</b>	No known effect.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	Causes serious eye irritation.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Skin sensitization</b>	May cause sensitization by skin contact.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.

### Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Allyl (3-methylbutoxy)acetate	67634-00-8	730 mg/kg (rat)	-	-
Coumarin	91-64-5	500 mg/kg (rat)	-	-
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Hazardous to the Aquatic Environment.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

<b>Waste from Residues / Unused Products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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<b>Contaminated packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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**California Hazardous Waste Codes** 331

(non-household setting)

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

**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)

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

### U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Benzyl Acetate	140-11-4	X
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Dipropylene Glycol	25265-71-8	X

### International Inventories

#### United States

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### Canada

This product is in compliance with CEPA for import by P&G.

#### Legend

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

**CEPA** - Canadian Environmental Protection Act

## 16. OTHER INFORMATION

**Issuing Date:** 15-Apr-2015

**Revision Date:** 15-Apr-2015

#### **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 SDS**

# SAFETY DATA SHEET



Issuing Date: 16-Apr-2015

Revision Date: 16-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener - Vanilla & Cream (2 of 2)

**Product ID:** 97188103\_A\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 97159530

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
May cause an allergic skin reaction  
Combustible liquid

**Hazard pictograms**



**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
 Drink 1 or 2 glasses of water  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before re-use  
 If skin irritation or rash occurs: Get medical advice/attention  
 In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Benzyl Acetate	-	No	140-11-4	5 - 10
PPG-2 Methyl Ether	-	No	34590-94-8	5 - 10
Diethyl malonate	-	No	105-53-3	5 - 10
Eugenol	-	No	97-53-0	1 - 5
Limonene	-	No	5989-27-5	1 - 5
4-tert-Butylcyclohexyl acetate	-	No	32210-23-4	1 - 5
Methylcinnamic Aldehyde	-	No	101-39-3	1 - 5
Phenylpropanol	-	No	122-97-4	1 - 5
Geranyl acetate	-	No	105-87-3	1 - 5
Isocyclocitral	-	No	1335-66-6	0.5 - 1.5
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.5 - 1.5
Methyl cinnamate	-	No	103-26-4	0.5 - 1.5
Benzyl salicylate	-	No	118-58-1	0.5 - 1.5
Coumarin	-	No	91-64-5	0.1 - 1.0
Cinnamitrile (isomer unspecified)	-	No	4360-47-8	0.1 - 1.0
Ethyl methylphenylglycidate	-	No	77-83-8	0.1 - 1.0

**4. FIRST AID MEASURES**

**First aid measures for different exposure routes**

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

**6. ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

<b>Advice on safe handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
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**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Benzyl Acetate	140-11-4	TWA: 10 ppm		
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Cinnamonnitrile (isomer unspecified)	4360-47-8		TWA: 5 mg/m <sup>3</sup> CN (vacated) TWA: 5 mg/m <sup>3</sup> S*	Mexico: TWA 5 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Benzyl Acetate	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Cinnamonnitrile (isomer unspecified)	4360-47-8		Ceiling: 10 ppm Ceiling: 11 mg/m <sup>3</sup> Skin		

No relevant exposure guidelines for other ingredients

Exposure controls

**Engineering Measures** **Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

**Eye Protection** **Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection** **Distribution, Workplace and Household Settings:**  
For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C**

liquid

**Appearance**

clear to amber

**Odor**

Scented

**Odor threshold**

No information available

Property

Values

Note

**pH value**

No information available

**Melting/freezing point**

No information available

**Boiling point/boiling range**

No information available

**Flash point**

71 - 74 °C / 159.5 - 166 °F

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

**Upper flammability limit**

No information available

**Lower Flammability Limit**

No information available

**Vapor pressure**

< 2 mm Hg

**Vapor density**

No information available

**Relative density**

No information available

**Water solubility**

Not soluble

**Solubility in other solvents**

No information available

**Partition coefficient: n-octanol/water**

No information available

**Autoignition temperature**

No information available

**Decomposition temperature**

No information available

**Viscosity of Product**

No information available

**VOC Content (%)**

Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

**Reactivity**

None under normal use conditions.

**Stability**

Stable under normal conditions.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Materials to avoid**

None in particular.

**Hazardous Decomposition Products** None under normal use.

**11. TOXICOLOGICAL INFORMATION**

**Product Information**

**Information on likely routes of exposure**

**Inhalation** No known effect.  
**Skin contact** May cause sensitization by skin contact.  
**Ingestion** No known effect.  
**Eye contact** Causes serious eye irritation.

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

**Acute toxicity** No known effect.  
**Skin corrosion/irritation** No known effect.  
**Serious eye damage/eye irritation** Causes serious eye irritation.  
**Skin sensitization** May cause sensitization by skin contact.  
**Respiratory sensitization** No known effect.  
**Germ cell mutagenicity** No known effect.  
**Neurological Effects** No known effect.  
**Reproductive toxicity** No known effect.  
**Developmental toxicity** No known effect.  
**Teratogenicity** No known effect.  
**STOT - single exposure** No known effect.  
**STOT - repeated exposure** No known effect.  
**Target Organ Effects** No known effect.  
**Aspiration hazard** No known effect.  
**Carcinogenicity** No known effect.

**Component Information**

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Coumarin	91-64-5	500 mg/kg (rat)	-	-
Cinnamonnitrile (isomer unspecified)	4360-47-8	275 mg/kg (rat)	1910 mg/kg (rabbit)	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Hazardous to the Aquatic Environment.

**Persistence and degradability** No information available.  
**Bioaccumulative potential** No information available.  
**Mobility** No information available.  
**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste from Residues / Unused Products** 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 Codes (non-household setting)** 331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (cis-2-tert-butylcyclohexyl acetate, Limonene), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (cis-2-tert-butylcyclohexyl acetate, Limonene), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Isoamyl Acetate	123-92-2	5000 lb	-	

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X
Cinnamionitrile (isomer unspecified)	4360-47-8	X

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isoamyl Acetate	123-92-2	-	-	-	X
Cinnamionitrile (isomer unspecified)	4360-47-8	-	X	X	-

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Benzyl Acetate	140-11-4	X
PPG-2 Methyl Ether	34590-94-8	X
Diethyl malonate	105-53-3	X
Limonene	5989-27-5	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
Isoamyl Acetate	123-92-2	X
Dipropylene Glycol	25265-71-8	X
Cinnamionitrile (isomer unspecified)	4360-47-8	X

**International Inventories**

**United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

**16. OTHER INFORMATION**

**Issuing Date:** 16-Apr-2015

**Revision Date:** 16-Apr-2015

**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 SDS**

# SAFETY DATA SHEET



Issuing Date: 15-Apr-2015

Revision Date: 15-Apr-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Febreze Noticeables Air Freshener -Hawaiian Aloha (1 of 2)

**Product ID:** 97007107\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Air freshener

**Restrictions on Use** Use only as directed on label.

**Synonyms** 96934502

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**E-mail Address** pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./ Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:**

### Hazard Category

**Skin corrosion/irritation** Category 2  
**Eye Damage / Irritation** Category 2A  
**Skin sensitization** Category 1  
**Flammable Liquids** Category 4

**Signal Word** WARNING

**Hazard Statements** Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

Combustible liquid

**Hazard pictograms**



**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
Drink 1 or 2 glasses of water  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before re-use  
If skin irritation or rash occurs: Get medical advice/attention  
In case of fire: Use water, CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
PPG-2 Methyl Ether	-	No	34590-94-8	35 - 40
Limonene	-	No	5989-27-5	5 - 10
Allyl heptanoate	-	No	142-19-8	1 - 5
Allyl Caproate	-	No	123-68-2	1 - 5
Allyl (3-methylbutoxy)acetate	-	No	67634-00-8	1 - 5
Linalool	-	No	78-70-6	1 - 5
Citral	-	No	5392-40-5	1 - 5
Isoamyl Acetate	-	No	123-92-2	0.5 - 1.5
Tetramethyl Acetyloctahydronaphthalenes	-	No	54464-57-2	0.5 - 1.5
Lauraldehyde	-	No	112-54-9	0.5 - 1.5
Geranyl acetate	-	No	105-87-3	0.5 - 1.5
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	No	68039-49-6	0.5 - 1.5
Delta-Damascone	-	No	57378-68-4	0.1 - 1.0
Geraniol	-	No	106-24-1	0.1 - 1.0
Alpha-Damascone	-	No	23726-94-5	0.1 - 1.0
Nerol	-	No	106-25-2	0.1 - 1.0

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

##### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to Physician</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	In case of fire: Use water, CO2, dry chemical, or foam for extinction.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazard</b>	Combustible liquid.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

##### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

<b>Advice on safe handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in
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original containers for re-use. Keep out of the reach of children.

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

**Storage Conditions** Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

**Incompatible products** None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
Citral	5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*		
Isoamyl Acetate	123-92-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	Mexico: TWA 100 ppm Mexico: TWA 525 mg/m <sup>3</sup> Mexico: STEL 125 ppm Mexico: STEL 655 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
Citral	5392-40-5			TWA: 5 ppm Skin	
Isoamyl Acetate	123-92-2	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup> STEL: 100 ppm STEL: 532 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup> STEL: 100 ppm STEL: 532 mg/m <sup>3</sup>	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

**Distribution, Workplace and Household Settings:**  
Ensure adequate ventilation

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Use appropriate eye protection

**Hand Protection**

**Distribution, Workplace and Household Settings:**

For sensitive skin or prolonged use, wear gloves

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Protective gloves

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**

No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**

In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C**

liquid

**Appearance**

clear to amber

**Odor**

Scented

**Odor threshold**

No information available

Property

Values

Note

**pH value**

No information available

**Melting/freezing point**

No information available

**Boiling point/boiling range**

No information available

**Flash point**

69 - 72 °C / 157 - 161 °F

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

**Upper flammability limit**

No information available

**Lower Flammability Limit**

No information available

**Vapor pressure**

< 2 mm Hg

**Vapor density**

No information available

**Relative density**

No information available

**Water solubility**

Not soluble

**Solubility in other solvents**

No information available

**Partition coefficient: n-octanol/water** No information available

**Autoignition temperature**

No information available

**Decomposition temperature**

No information available

**Viscosity of Product**

No information available

**VOC Content (%)**

Products comply with US state and federal regulations for VOC content in consumer products.

**10. STABILITY AND REACTIVITY**

**Reactivity**

None under normal use conditions.

**Stability**

Stable under normal conditions.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions**

None under normal processing.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Materials to avoid** None in particular.

**Hazardous Decomposition Products** None under normal use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

Information on likely routes of exposure

**Inhalation** No known effect.  
**Skin contact** Irritating to skin. May cause sensitization by skin contact.  
**Ingestion** No known effect.  
**Eye contact** Causes serious eye irritation.

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

**Acute toxicity** No known effect.  
**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** Causes serious eye irritation.  
**Skin sensitization** May cause sensitization by skin contact.  
**Respiratory sensitization** No known effect.  
**Germ cell mutagenicity** No known effect.  
**Neurological Effects** No known effect.  
**Reproductive toxicity** No known effect.  
**Developmental toxicity** No known effect.  
**Teratogenicity** No known effect.  
**STOT - single exposure** No known effect.  
**STOT - repeated exposure** No known effect.  
**Target Organ Effects** No known effect.  
**Aspiration hazard** No known effect.  
**Carcinogenicity** No known effect.

### Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Allyl heptanoate	142-19-8	218 mg/kg (rat)	810 mg/kg (rabbit)	-
Allyl Caproate	123-68-2	300 mg/kg (rat)	300 mg/kg (rabbit)	-
Allyl (3-methylbutoxy)acetate	67634-00-8	730 mg/kg (rat)	-	-
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-
Alpha-Damascone	23726-94-5	1670 mg/kg (rat)	-	-

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Hazardous to the Aquatic Environment.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

**Waste from Residues / Unused** Disposal should be in accordance with applicable regional, national and local laws and

**Products** regulations.

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

**California Hazardous Waste Codes (non-household setting)** 331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG**

**UN Number** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Limonene, Allyl heptanoate), 9, III, Ltd. Qty.  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Special precautions for user** 274, 335  
**EmS-No** F-A, S-F

**IATA**

**UN no** UN3082  
**UN Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Limonene, Allyl heptanoate), 9, III, Ltd. Qty.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Special precautions for user** A97, A158  
**IATA comment** Can also be shipped as ID8000 Consumer Commodity

**15. REGULATORY INFORMATION**

**U.S. 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	SARA 313 - Threshold Values %
PPG-2 Methyl Ether	34590-94-8	1.0
2-Phenoxyethyl isobutyrate	103-60-6	1.0

**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	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Isoamyl Acetate	123-92-2	5000 lb	-	
Methanol	67-56-1	5000 lb	-	

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
PPG-2 Methyl Ether	34590-94-8	X

2-Phenoxyethyl isobutyrate	103-60-6	X
Methanol	67-56-1	X

**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	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isoamyl Acetate	123-92-2	-	-	-	X

**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
PPG-2 Methyl Ether	34590-94-8	X
Limonene	5989-27-5	X
2-Phenoxyethyl isobutyrate	103-60-6	X
Isoamyl Acetate	123-92-2	X

Chemical Name	CAS-No	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X
Ethyl hexanoate	123-66-0	X
Isoamyl Acetate	123-92-2	X

Chemical Name	CAS-No	Pennsylvania
PPG-2 Methyl Ether	34590-94-8	X
2-Phenoxyethyl isobutyrate	103-60-6	X
Ethyl hexanoate	123-66-0	X
Isoamyl Acetate	123-92-2	X
Methanol	67-56-1	X

**International Inventories****United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**

This product is in compliance with CEPA for import by P&G.

**Legend**

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

**CEPA** - Canadian Environmental Protection Act

## 16. OTHER INFORMATION

**Issuing Date:** 15-Apr-2015

**Revision Date:** 15-Apr-2015

**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 SDS**

# FICHE SIGNALÉTIQUE



Date d'émission : 29-avr.-2016

Date de révision : 29-avr.-2016

Version 1

## 1. IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

<b>Nom du produit</b>	Febreze Plug Air Freshener - Linen & Sky (1 of 2)
<b>ID du produit:</b>	90871399_RET_NG
<b>Type de produit</b>	Produit fini - la consommation (détail) Utiliser seulement
<b>Utilisation recommandée</b>	Des Services de Blanchisserie.
<b>Restrictions d'utilisation</b>	Utilisez seulement comme dirigé sur l'étiquette.
<b>Synonymes</b>	90806165
<b>Fabricant</b>	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA  Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
<b>Adresse de courriel</b>	pgsds.im@pg.com
<b>Numéro d'appel d'urgence</b>	Transport (24 Heure) CHEMTREC - 1-800-424-9300 (États-Unis / Canada) or 1-703-527-3887 Mexique sans frais dans la campagne: 01-800-681-9531

## 2. IDENTIFICATION DES DANGERS

La norme sur la communication des renseignements à l'égard des matières dangereuses de l'OSHA ne s'applique pas aux produits de consommation tels que définis par la Loi américaine sur la sécurité des produits de consommation, qui sont utilisés comme prévu (durée et fréquence de consommation typiques). Cette FDS est offert à titre gracieux pour aider à aider dans la manipulation et l'utilisation appropriée du produit.

**Ce produit est classifié sous 29CFR 1910.1200 (d) et le Règlement Canadien sur les Produits Dangereux comme suit:**

<b>Catégorie de danger</b>	
<b>corrosion cutanée/irritation cutanée</b>	Catégorie 2
<b>Lésions oculaires</b>	Catégorie 2A
<b>Sensibilisation de la peau</b>	Catégorie 1
<b>Dangers physiques</b>	Catégorie 4
<b>Liquides inflammables</b>	Numéro de
<b>catégorie du danger physique du</b>	
<b>SGH</b>	

mot indicateur Avertissement

**Mentions de danger** Provoque une sévère irritation des yeux  
Provoque une irritation cutanée  
Peut provoquer une allergie cutanée  
liquide combustible

Dangers physiques liquide combustible

**Pictogrammes de danger**



**Conseils de prudence - Prévention** Se laver les mains soigneusement après manipulation  
Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaude. - Ne pas fumer  
Maintenir le récipient fermé de manière étanche

**Conseils de prudence - Réponse** EN CAS DE CONTACT AVEC LES YEUX : rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer  
Si l'irritation oculaire persiste : consulter un médecin  
EN CAS D'INGESTION : Rincez la bouche. NE PAS provoquer le vomissement.  
Boire un ou deux verres d'eau  
EN CAS DE CONTACT AVEC LA PEAU : laver abondamment à l'eau et au savon  
Laver les vêtements contaminés avant réutilisation  
En cas d'irritation ou d'éruption cutanée : consulter un médecin  
En cas d'incendie : Utilisez de l'eau, CO2, poudre chimique ou de la mousse pour l'extinction

**Conseils de prudence - Entreposage** Stocker dans un endroit bien ventilé. Tenir au frais

**Conseils de prudence - Élimination** Aucun

**HNOC (danger non classé autrement)** Aucun

### 3. COMPOSITION/INFORMATION SUR LES COMPOSANTS

Les ingrédients sont répertoriés selon 29CFR 1910.1200 Annexe D et l' Règlement Canadien sur les Produits Dangereux

Nom chimique	Synonymes	Secret commercial	No. CAS	% en poids
2,6-Dimethyl-7-octen-2-ol	2,6-Dimethyl-7-octen-2-ol	No	18479-58-8	15 - 20
Acetic acid, phenylmethyl ester	Acetic acid, phenylmethyl ester	No	140-11-4	15 - 20
1,6-Octadien-3-ol, 3,7-dimethyl-	1,6-Octadien-3-ol, 3,7-dimethyl-	No	78-70-6	5 - 10
PPG-2 Methyl Ether	PPG-2 Methyl Ether	No	34590-94-8	1 - 5
Cyclohexanol, 4-(1,1-dimethylethyl)-, 1-acetate	Cyclohexanol, 4-(1,1-dimethylethyl)-, 1-acetate	No	32210-23-4	1 - 5
Amyl Cinnamal	Amyl Cinnamal	No	122-40-7	1 - 5
Allyl Amyl Glycolate	Allyl Amyl Glycolate	No	67634-00-8	1 - 5
1-Hexanol, 3,5,5-trimethyl-, 1-acetate	1-Hexanol, 3,5,5-trimethyl-,	No	58430-94-7	0.5 - 1.5

	1-acetate			
Cyclamen Aldehyde	Cyclamen Aldehyde	No	103-95-7	0.5 - 1.5
2H-1-Benzopyran-2-one	2H-1-Benzopyran-2-one	No	91-64-5	0.5 - 1.5
2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	No	470-82-6	0.5 - 1.5
6-Octen-1-ol, 3,7-dimethyl-	6-Octen-1-ol, 3,7-dimethyl-	No	106-22-9	0.1 - 1.0
2,6-Octadienal, 3,7-dimethyl-	2,6-Octadienal, 3,7-dimethyl-	No	5392-40-5	0.1 - 1.0
Octanal, 7-hydroxy-3,7-dimethyl-	Octanal, 7-hydroxy-3,7-dimethyl-	No	107-75-5	0.1 - 1.0
3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	No	127-51-5	0.1 - 1.0
Dodecanal	Dodecanal	No	112-54-9	0.1 - 1.0
delta Damascone	delta Damascone	No	57378-68-4	0.1 - 1.0
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	No	68039-49-6	0.1 - 1.0

#### 4. PREMIERS SOINS

##### Mesures de premiers soins pour les différentes voies d'exposition

<b>Contact avec les yeux</b>	Rincer abondamment à l'eau. Faire immédiatement appel à une assistance médicale si l'irritation persiste.
<b>Contact avec la peau</b>	Rincer abondamment à l'eau. Obtenir des soins médicaux si l'irritation évolue et persiste.
<b>Ingestion</b>	Boire un ou deux verres d'eau. NE PAS faire vomir. Obtenir immédiatement des soins médicaux si des symptômes apparaissent.
<b>Inhalation</b>	Amener la victime à l'air libre. Si les symptômes persistent, appeler un médecin.
<b>Symptômes/effets les plus importants, aigus et différés</b>	Aucun dans des conditions normales d'utilisation.

##### Indication de consultation médicale immédiate et du traitement spécial requis si nécessaire.

<b>Notes au médecin</b>	Traiter en fonction des symptômes.
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#### 5. MESURES À PRENDRE EN CAS D'INCENDIE

<b>Moyens d'extinction appropriés</b>	En cas d'incendie : Utilisez de l'eau, CO2, poudre chimique ou de la mousse pour l'extinction.
<b>Moyens d'extinction inappropriés</b>	Ne pas utiliser un jet d'eau solide pour éviter la dispersion et la propagation du feu.
<b>Danger particulier</b>	liquide combustible.
<b>Équipement de protection particulier pour les pompiers</b>	Comme avec tout incendie, porter un appareil respiratoire autonome à demande de pression, MSHA/NIOSH (homologué ou équivalent) et une tenue de protection complète.
<b>Dangers particuliers associés au produit chimique</b>	Aucun.

#### 6. MESURES À PRENDRE EN CAS DE DÉVERSEMENTS ACCIDENTELS

**Précautions individuelles, équipement de protection et procédures d'urgence**

**Précautions personnelles** Utiliser un équipement de protection personnelle. Éviter tout contact avec les yeux, la peau ou les vêtements.

**Avis pour les agents d'intervention d'urgence** Utiliser l'équipement de protection individuelle requis.

**Méthodes et matières pour le confinement et le nettoyage**

**Méthodes de confinement** Absorber avec de la terre, du sable ou autre produit non combustible et transférer dans des contenants pour une élimination ultérieure.

**Méthodes de nettoyage** Contenir un déversement, recueillir ensuite avec un matériau absorbant non combustible (par ex., sable, terre, terre de diatomées, vermiculite) et placer dans un contenant pour élimination selon les règlements locaux et nationaux (voir la section 13).

**7. MANUTENTION ET STOCKAGE****Précautions à prendre pour une manipulation sans danger**

**Conseils sur la manutention sécuritaire** Tenir à l'écart des flammes, des surfaces chaudes et des sources d'inflammation. Utiliser l'équipement de protection individuelle requis. Garder le contenant fermé lorsqu'il n'est pas utilisé. Ne jamais réintroduire le produit déversé dans son récipient d'origine en vue d'une réutilisation. Conserver hors de la portée des enfants.

**Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**

**Conditions d'entreposage** Entreposer dans un endroit sec, bien ventilé, à basse température ou à une température fraîche, à l'écart de la chaleur et des sources d'ignition.

**Produits incompatibles** Aucun connu.

**8. CONTRÔLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE****Paramètres de contrôle****Directives relatives à l'exposition**

Nom chimique	No. CAS	ACGIH TLV	OSHA PEL	Limites d'exposition
Acetic acid, phenylmethyl ester	140-11-4	TWA: 10 ppm		
PPG-2 Methyl Ether	34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 900 mg/m <sup>3</sup>
2,6-Octadienal, 3,7-dimethyl-	5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*		

Nom chimique	No. CAS	Alberta	Quebec	Ontario TWAEV	British Columbia
Acetic acid, phenylmethyl ester	140-11-4	TWA: 10 ppm TWA: 61 mg/m <sup>3</sup>		TWA: 10 ppm	TWA: 10 ppm
PPG-2 Methyl Ether	34590-94-8	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 606 mg/m <sup>3</sup> STEL: 150 ppm STEL: 909 mg/m <sup>3</sup> Skin	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm STEL: 150 ppm Skin
2,6-Octadienal, 3,7-dimethyl-	5392-40-5			TWA: 5 ppm Skin	

Pas de lignes directrices d'exposition pertinentes pour d'autres ingrédients

**Contrôles de l'exposition**

**Mesures d'ordre technique**

**Emplacements de Distribution, en Milieu de Travail et les Ménages:**  
S'assurer une ventilation adéquate

**Usine de Produits (nécessaire au produit-usine de production SEULEMENT):**  
Lorsque cela est raisonnablement faisable, la ventilation doit se faire par aspiration aux postes de travail et il doit y avoir une extraction générale convenable

**Équipement de protection individuelle**

**Protection des yeux**

**Emplacements de Distribution, en Milieu de Travail et les Ménages:**  
Aucun équipement de protection particulier requis

**Usine de Produits (nécessaire au produit-usine de production SEULEMENT):**  
Utilisez des lunettes de protection

**Protection des mains**

**Emplacements de Distribution, en Milieu de Travail et les Ménages:**  
Pour les peaux sensibles ou utilisation prolongée, porter des gants

**Usine de Produits (nécessaire au produit-usine de production SEULEMENT):**  
Gants de protection

**Protection de la peau et du corps**

**Emplacements de Distribution, en Milieu de Travail et les Ménages:**  
Aucun équipement de protection particulier requis

**Usine de Produits (nécessaire au produit-usine de production SEULEMENT):**  
Porter un vêtement de protection approprié

**Protection respiratoire**

**Emplacements de Distribution, en Milieu de Travail et les Ménages:**  
Aucun équipement de protection particulier requis

**Usine de Produits (nécessaire au produit-usine de production SEULEMENT):**  
Lorsque la ventilation du local est insuffisante, porter un équipement de protection respiratoire

**9. PROPRIÉTÉS PHYSIQUES ET CHIMIQUES**

<b>État physique</b>	Liquide
<b>Aspect</b>	incolore to jaune clair
<b>Odeur</b>	Parfum
<b>Seuil de perception de l'odeur</b>	Aucun renseignement disponible

<u>Propriété</u>	<u>Valeurs</u>
<b>pH</b>	Aucun renseignement disponible
<b>point de fusion/congélation</b>	Aucun renseignement disponible
<b>Point/intervalle d'ébullition</b>	Aucun renseignement disponible
<b>point d'éclair</b>	83.5 °C / 182.3 °F
<b>Taux d'évaporation</b>	Aucun renseignement disponible
<b>Inflammabilité (solide, gaz)</b>	Aucun renseignement disponible
<b>Limites d'inflammabilité dans l'air</b>	
<b>Limite supérieure d'inflammabilité</b>	Aucun renseignement disponible
<b>Limite inférieure d'inflammabilité</b>	Aucun renseignement disponible
<b>Pression de vapeur</b>	Aucun renseignement disponible

NOTE

<b>densité de vapeur</b>	Aucun renseignement disponible
<b>Densité relative</b>	Aucun renseignement disponible
<b>Solubilité dans l'eau</b>	Aucun renseignement disponible
<b>Coefficient de partage : n-octanol/eau</b>	Aucun renseignement disponible
<b>Température d'auto-inflammation</b>	Aucun renseignement disponible
<b>Température de décomposition</b>	Aucun renseignement disponible
<b>Viscosité, cinématique</b>	Aucun renseignement disponible
<b>Teneur en COV (%)</b>	Produits conformes aux règlements de l'État fédéral et des États-Unis pour la teneur en COV des produits de consommation

## 10. STABILITÉ ET RÉACTIVITÉ

<b>réactivité</b>	Aucun dans des conditions normales d'utilisation.
<b>Stabilité</b>	Stable dans des conditions normales.
<b>Polymérisation dangereuse</b>	Une polymérisation dangereuse ne se produira pas.
<b>Réactions dangereuses</b>	Aucun dans des conditions normales de traitement.
<b>Conditions à éviter</b>	Tenir à l'écart des flammes, des surfaces chaudes et des sources d'inflammation.
<b>Matières à éviter</b>	Aucun en particulier.
<b>Produits de décomposition dangereux</b>	Aucun dans des conditions normales d'utilisation.

## 11. RENSEIGNEMENTS TOXICOLOGIQUES

### Renseignements sur le produit

#### Informations sur les voies d'exposition probables

<b>Inhalation</b>	Aucun effet connu.
<b>Contact avec la peau</b>	Irritant pour la peau. Peut entraîner une sensibilisation par contact avec la peau.
<b>Ingestion</b>	Aucun effet connu.
<b>Contact avec les yeux</b>	Provoque une sévère irritation des yeux.

#### Effets retardés et immédiats et effets chroniques d'une exposition de courte et de longue durée

<b>Toxicité aiguë</b>	Aucun effet connu.
<b>corrosion cutanée/irritation cutanée</b>	Irritant pour la peau.
<b>Lésions oculaires graves/irritation oculaire</b>	Provoque une sévère irritation des yeux.
<b>Sensibilisation de la peau</b>	Peut entraîner une sensibilisation par contact avec la peau.
<b>Sensibilisation des voies respiratoires</b>	Aucun effet connu.
<b>Mutagenicité sur les cellules germinales</b>	Aucun effet connu.
<b>Effets neurologiques</b>	Aucun effet connu.
<b>Toxicité pour la reproduction</b>	Aucun effet connu.
<b>Toxicité pour le développement</b>	Aucun effet connu.
<b>Téatogénicité</b>	Aucun effet connu.
<b>STOT - exposition unique</b>	Aucun effet connu.
<b>STOT - exposition répétée</b>	Aucun effet connu.
<b>Effets sur les organes cibles</b>	Aucun effet connu.
<b>Risque d'aspiration</b>	Aucun effet connu.
<b>Cancérogénicité</b>	Aucun effet connu.

### Renseignements sur les composants

Nom chimique	No. CAS	DL50 par voie orale	DL50 par la peau	CL50 par inhalation
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1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	2200 mg/kg bodyweight (rat)	5610 mg/kg bodyweight (rabbit)	20.1 mg/l/4h (rat)
Allyl Amyl Glycolate	67634-00-8	730 mg/kg (rat)	-	-
Cyclamen Aldehyde	103-95-7	2500 mg/kg bodyweight (rat)	5001 mg/kg bodyweight (rat)	-
2H-1-Benzopyran-2-one	91-64-5	500 mg/kg (rat)	-	-
2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	470-82-6	4300 mg/kg bodyweight (rat)	5001 mg/kg bodyweight (rat)	-
6-Octen-1-ol, 3,7-dimethyl-	106-22-9	2500 mg/kg bodyweight (rat)	2500 mg/kg bodyweight (rat)	-
2,6-Octadienal, 3,7-dimethyl-	5392-40-5	6800 mg/kg bodyweight (rat)	2500 mg/kg bodyweight (rat)	-
delta Damascone	57378-68-4	1400 mg/kg (rat)	-	-
Dodecanal	112-54-9	23100 mg/kg bodyweight (rat)	5001 mg/kg bodyweight (rabbit)	-

## 12. RENSEIGNEMENTS ÉCOLOGIQUES

### Écotoxicité

Dangers pour le milieu aquatique.

**Persistance et dégradabilité** Aucun renseignement disponible.

**Potentiel de bioaccumulation** Aucun renseignement disponible.

**Mobilité** Aucun renseignement disponible.

**Autres effets néfastes** Aucun renseignement disponible.

## 13. CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

### Traitement des déchets

**Déchets des résidus / produits non utilisés** L'élimination doit être conforme aux lois et aux réglementations régionales, nationales et locales.

**Emballage contaminé** L'élimination doit être conforme aux lois et aux réglementations régionales, nationales et locales.

**Codes Californie déchets dangereux** 331  
(non-ménage de réglage)

## 14. RENSEIGNEMENTS SUR LE TRANSPORT

**DOT** Non réglementé

### IMDG

**Numéro ONU** UN3082  
**Nom officiel d'expédition** Matière dangereuse du point de vue de l'environnement, liquide, n.s.a  
**Désignation** UN3082, Matière dangereuse du point de vue de l'environnement, liquide, n.s.a, (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.  
**Classe(s) de danger pour le transport** 9  
**Groupe d'emballage** III  
**Précautions particulières à prendre par l'utilisateur** 274, 335  
**EmS-N°** F-A, S-F

### IATA

**N° ID/ONU** UN3082  
**Nom officiel d'expédition** Matière dangereuse du point de vue de l'environnement, liquide, n.s.a

<b>Désignation</b>	UN3082, Matière dangereuse du point de vue de l'environnement, liquide, n.s.a (2-t-Butylcyclohexyl Acetate, 4-tert-Butylcyclohexyl acetate), 9, III, Ltd. Qty.
<b>Classe de danger</b>	9
<b>Groupe d'emballage</b>	III
<b>Code ERG</b>	9L
<b>IATA comment</b>	

## 15. INFORMATIONS RÉGLEMENTAIRES

### Réglementations fédérales des Etats-Unis

#### **SARA 313**

Section 313 du titre III de la loi du Superfund Amendments and Reauthorization Act de 1986 (SARA). Ce produit ne contient aucun produit chimique soumis aux exigences en matière de rapport de la Loi et du titre 40 du Code of Federal Regulations, Partie 372

#### **CERCLA**

Comme il est expédié, ce produit ne contient aucune substance réglementée comme une substance dangereuse en vertu de CERCLA (Comprehensive environmental response compensation and Liability Act) (40 CFR 302) ou de SARA (Superfund Amendments and Reauthorization Act) (40 CFR 355). Il peut exister des exigences particulières en matière de déclaration au niveau local, régional ou provincial pour des rejets de ce produit

#### **Loi sur la lutte contre la pollution atmosphérique, Section 112, Polluants atmosphériques dangereux (HAP) (voir 40 CFR 61)**

Ce produit ne contient aucune substance reconnue comme un polluant de l'air dangereux (HAPS) sous la section 112 des amendements du Clean Air Act de 1990

#### **Loi sur la qualité de l'eau (Clean Water Act)**

Ce produit ne contient aucune substance polluante réglementée en vertu de la loi sur la qualité de l'eau (Clean Water Act) (40 CFR 122.21 et 40 CFR 122.42) :

#### **Proposition 65 de la Californie**

Ce produit n'est pas assujéti à l'avertissement d'étiquetage en vertu de la Californie Proposition 65.

### **Réglementations des Etats**

Nom chimique	No. CAS	New Jersey
Acetic acid, phenylmethyl ester	140-11-4	X
PPG-2 Methyl Ether	34590-94-8	X

Nom chimique	No. CAS	Massachusetts
PPG-2 Methyl Ether	34590-94-8	X

Nom chimique	No. CAS	Pennsylvanie
PPG-2 Methyl Ether	34590-94-8	X

### Inventaires internationaux

#### **ÉTATS-UNIS**

Tous les composants ajoutés intentionnellement de ce produit (s) sont répertoriés dans l'inventaire TSCA des États-Unis.

#### **Canada**

Ce produit est en conformité avec la LCPE pour l'importation par P&G.

### Légende

TSCA - États-Unis - Section 8 (b) de l'inventaire TSCA (loi réglementant les substances toxiques)

LCPE - Loi canadienne sur la protection de l'environnement

## 16. AUTRES INFORMATIONS

**Date d'émission :** 29-avr.-2016

**Date de révision :** 29-avr.-2016

### **Avis de non-responsabilité**

À notre connaissance et selon nos renseignements et notre opinion à la date de publication de cette Fiche de sécurité, les renseignements fournis dans cette dernière sont exacts. Les renseignements donnés sont conçus uniquement comme un guide pour la manipulation, l'utilisation, le traitement, l'entreposage, le transport, l'élimination et le rejet sécuritaires du produit et ne doivent pas être considérés comme une garantie ou une norme de qualité. Les renseignements sont liés uniquement au produit particulier indiqué et peuvent ne pas être valides pour un tel produit utilisé en association avec toute autre substance ou dans tout autre procédé, sauf si indiqué dans le texte

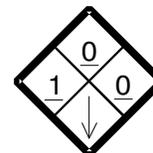
**End of SDS**

# Knauf Insulation GmbH

Health Hazard	(1)
Fire Hazard	(0)
Physical Hazard	(0)
Personal Protection	(B)

HMIS RATING

## MATERIAL SAFETY DATA SHEET



NFPA RATING

### SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product:** Fiber Glass Insulation

**MSDS Number:** 1004

**Trade Designations:** 1000° Pipe Insulation\*, Acoustical/IB Board, Acoustical Board Smooth, Air Duct Board (Type M, Type AGM, Eclipse™), Amber Blanket Insulation, Basement Wall Insulation, Black Acoustical Board, Black Blanket Insulation, Black Diffuser Board, Commercial Building Insulation, Duct Liner E•M, Duct Wrap (Unfaced & Faced), Elevated Temperature (ET) Batt\*, Elevated Temperature (ET) Blanket\*, Elevated Temperature (ET) Board\*, Elevated Temperature (ET) Panel\*, Equipment Liner M, Fabrication Board\*, Flexible Duct Material, Foil Faced Residential Insulation, FSK Faced Residential Insulation, Hull Board\*, Insulation Board\*, KFR/ET Range Insulation\*, KN Series Insulation, Kraft Faced Residential Insulation, KwikFlex™, Redi-Klad™ 1000° Pipe Insulation\*, Manufactured Housing Duct Board, Manufactured Housing Insulation, Metal Building Insulation, Pipe & Tank Insulation\*, Rigid Plenum Liner, Unfaced Residential Insulation, Sill Sealer, Wall and Ceiling Liner M, Wall Insulation (\* See Section VIII)

**Manufacturer:** Knauf Insulation GmbH

**Date Issued:** January 20, 2014

**Address:** One Knauf Drive  
Shelbyville, IN 46176-1496

**Product Stewardship Support Line:** 317-398-4434, X8512  
**24 hr Emergency (Chemtrec) Phone:** 800-424-9300

### SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	TLV	PEL
Fibrous Glass	65997-17-3	83-97	1 fiber/cc	1 fiber /cc
Urea extended phenol formaldehyde resin	25104-55-6	3-17	None	None
Formaldehyde*	50-00-0	<0.1	C0.3 ppm	0.75 ppm

Key: TLV = ACGIH, 8 hr. time weighted average (TWA); PEL = OSHA permissible exposure limit.

TLV and PEL limits are for respirable fibers length <5um, diameter >3um, aspect ratio <5:1.

\* Formaldehyde: TLV = ACGIH Ceiling Limit for workshift; PEL = OSHA permissible exposure limit.

### SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview:**

OSHA regulations do not require protection as long as the exposure to fiber glass wool does not exceed 1 fiber/cubic centimeter (f/cc) TWA (8 hour time weighted average). Fiber Glass wool exposure in the home, commercial buildings, and manufacturing facilities are generally found to be less than 1 f/cc. Installers and fabricators should be aware of their exposure levels and take appropriate actions if needed per recommended work practices. Guidance on typical fiber exposures for various applications can be obtained from the North American Insulation Manufacturers Association, [www.NAIMA.org](http://www.NAIMA.org). Knauf STRONGLY recommends following all safe work practices while working with and/or installing fiber glass wool products.

**SECTION III - HAZARDS IDENTIFICATION**

**HMIS Rating:**        **Health:** 1            **Fire:** 0            **Physical Hazard:** 0            **Protection:** B

**Primary Routes of Entry:** Via respirable fibers to the lungs and respiratory system and airborne fibers to the skin and eyes.

**Primary Target Organs:** Lungs, respiratory system, skin and eyes.

**Potential Health Effects:**

**Acute:** Mechanical irritation of the skin, eyes and upper respiratory system.

**Chronic:** Results from the most recent cohort and nested case-control epidemiological studies of U.S. workers exposed to glass wool have not provided evidence of an association between exposure to fibers and risk for respiratory cancer or mesothelioma.

**Skin Contact:** There are confirmed reports of contact dermatitis.

**Eye Contact:** A mechanical irritant which can cause moderate to severe eye irritation.

**Ingestion:** Non-hazardous when ingested. Potentially a mild Irritant to the GI tract if excessive quantity is ingested.

**Medical Conditions Aggravated by Exposure:** Pre-existing chronic upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Skin disease such as dermatitis

**Biosolubility:** All Knauf Insulation products covered by this MSDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations and thus exempt from labeling under NTP or California Prop 65 requirements.

**SECTION IV - FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. If coughing and irritation develop, call a physician.

**Eye Contact:** Flush with large amounts of water until irritation subsides, as least 15 minutes. See a physician if irritation persists.

**Skin Contact:** Normal good personal hygiene practices. Wash with mild soap and warm water after each exposure.

**Ingestion:** Emergency procedures not normally required. May be a temporary irritant to the GI system.

**SECTION V - FIREFIGHTING MEASURES**

**NFPA Rating:**        **Health:** 1            **Fire:** 0            **Reactivity:** 0            **Other:** 0

**Extinguishing Method:** Use water, foam, dry chemical or carbon dioxide.

**Special Firefighting Procedures:** Wear self contained breathing apparatus and protective clothing. Dense smoke may limit visibility in enclosed areas.

**Fire or explosion Hazards:** Resin, paper or plastic facings will burn causing dense acrid smoke.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Clean-up Procedures:** Pick up or shovel material into waste container taking care to minimize dust and fiber generation. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant.

**Personal Precautions:** If dusty conditions exist, wear a face mask approved for use with dusts such as 3M 8210, N95 or equivalent.

**Environmental Precautions:** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. Comply with federal, state and local regulations.

## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in dry area. Keep area clean. Vacuum clean dust. Use a dust suppressant if sweeping is necessary.

**Special Sensitivity or Incompatibility:** Hydrofluoric acid will react with and dissolve glass.

**Handling Precautions:** Assure proper respiratory protection if dust potential exceeds PEL/TLV.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

\* **Heat-Up Precautions:** During initial heat-up of high temperature insulation products to temperatures above 350°F, an acrid odor and smoke may be given off. Adequate ventilation should be provided to protect against harmful fumes. In confined spaces, occupants should wear self-contained breathing apparatus during this period.

**Engineering Controls:** Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

**Respiratory Protection:** When over PEL/TLV wear an approved respirator such as 3M 8210, N95 or equivalent, to protect against respirable glass wool fibers. Concentrations of fibers that exceed the recommendations of the mask manufacturer will need a higher level of respiratory protection, such as a half mask respirator with appropriate dust filters.

**Eye Protection:** Wear safety glasses with side shields, goggles or face shield when handling, installing or fabricating to protect eyes against dust and fibers.

**Skin Protection (clothing):** Long-sleeved, loose fitting clothes and head covering are recommended. Wash work clothes separately from other clothing, towels and linens to prevent fiber migration. Rinse washer thoroughly.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Yellow or black fibrous product, slight phenol formaldehyde odor. Some products have vinyl, kraft paper, foil or glass cloth facing.

**Melting Point:** >1300°F

**Specific Gravity:** Variable

**Solubility in Water:** Insoluble

**Pure/Mixture:** Mixture

## SECTION X - REACTIVITY

**Stability:** This is a stable, non-reactive product.

**Hazardous Decomposition Products:** Thermal decomposition of the resin may include carbon dioxide, carbon monoxide, formaldehyde, carbon particulate and traces of hydrogen cyanide.

**SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION****LD<sub>50</sub>:** N/Av**LC<sub>50</sub>:** N/Av**Toxicological Hazards:** See the Emergency overview on page 1, Section II.**Ecological Hazards:** No data exists for this product.**Teratogenicity, Mutagenicity, other Reproductive Effects:** None known**SECTION XII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. If unsure, contact the local office of the USEPA, your local public health department or the local landfill regulators.

**SECTION XIII - TRANSPORTATION INFORMATION****US DOT Shipping Name:** Not regulated**DOT Label:** None**UN/NA Number:** None**SECTION XIV - REGULATORY INFORMATION****OSHA Status:** This product is regulated as a nuisance dust under OSHA criteria.**TSCA/CEPA Status:** All components of this product are included in the TSCA and CEPA Chemical Inventories.**CERCLA Reportable Quantity:** N/Av**SARA Title III:**

**Section 302 Extremely Hazardous:** This product contains no extremely hazardous substances as defined and listed in section #302.

**Section 311/312 Hazard Categories:** This product is not classified as hazardous.

**Section 313 Toxic Chemicals:** This product does not contain substances which are reportable under Section 313.

**California Safe Drinking Water and Toxic Enforcement Act (Prop. 65)** This product is exempt from labeling requirements under this ACT.

**Canada (WHMIS):** This product is a class D2A controlled product under Canadian WHMIS regulations.

**SECTION XV - APPROVALS****Reason for Issue:** Review and change issue date**Approval Date:** 01/20/14**Prepared by:** B. Gardner**Supersedes Date:** 1/24/11**SECTION XVI - DISCLAIMER**

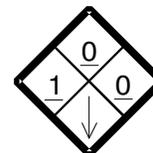
As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.

# Knauf Insulation GmbH

Health Hazard	①
Fire Hazard	①
Physical Hazard	①
Personal Protection	B

HMIS RATING

## MATERIAL SAFETY DATA SHEET



NFPA RATING

### SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product:** Fiber Glass Insulation - ECOSE™ Technology      **MSDS Number:** 1014 (Rev. 7)

**Trade Designations:** EcoBatt™ (Unfaced and Faced) Building Insulation, EcoBatt™ QuietTherm® (Unfaced and Faced) Building Insulation, Acoustical/IB Board, Acoustical Board Smooth, Air Duct Board (Eclipse™, Type M), KB Blanket, Black Acoustical Board, Black Diffuser Board, Condensation Control Blanket, Duct Wrap (Faced and Unfaced), Earthwool™ 1000° Pipe Insulation\*, ET Batt\*, ET Blanket\*, ET Board\*, ET Panel\*, Equipment Liner M, Fabrication Board\*, Flexible Duct Material, Hullboard\*, Insulation Board (Faced and Unfaced)\*, KFR/ET Range Insulation\*, KN Series, KwikFlex™\*, Manufactured Housing Duct Board, Manufactured Housing Insulation, Metal Building Insulation, Metal Building Filler Insulation, Pipe & Tank Insulation\*, Earthwool Redi-Klad® 1000° Pipe Insulation\*, Rigid Plenum Liner, Sill Sealer, Sonic XP™ Duct Liner, Wall & Ceiling Liner M (\* See Section VIII).

**Manufacturer:** Knauf Insulation GmbH      **Date Issued:** May 7, 2014  
**Address:** One Knauf Drive      **Product Stewardship Support Line:** 317-398-4434, x8512  
 Shelbyville, IN 46176-1496      **24 hr Emergency (Chemtrec) Phone:** 800-424-9300

### SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	TLV	PEL
Fibrous Glass	65997-17-3	83-99	1 fiber/cc	1 fiber /cc
Proprietary Binder	N/A	1-17	None	None

Key: TLV = ACGIH, 8 hr. time weighted average (TWA); PEL = OSHA permissible exposure limit.  
 TLV and PEL limits are for respirable fibers length <5um, diameter >3um, aspect ratio <5:1.

### SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview:**

OSHA regulations do not require respiratory protection as long as the exposure to fiber glass wool does not exceed 1 fiber/cubic centimeter (f/cc) TWA (8 hour time weighted average). Fiber Glass wool exposure in the home, commercial buildings, and manufacturing facilities are generally found to be less than 1 f/cc. Installers and fabricators should be aware of their exposure levels and take appropriate actions if needed per recommended work practices. Guidance on typical fiber exposures for various applications can be obtained from the North American Insulation Manufacturers Association, [www.NAIMA.org](http://www.NAIMA.org). Knauf STRONGLY recommends following all safe work practices while working with and/or installing fiber glass wool products.

**SECTION III - HAZARDS IDENTIFICATION**

**HMIS Rating:**        **Health:** 1            **Fire:** 0            **Physical Hazard:** 0            **Protection:** B

**Primary Routes of Entry:** Via respirable fibers to the lungs and respiratory system and airborne fibers to the skin and eyes.

**Primary Target Organs:** Lungs, respiratory system, skin and eyes.

**Potential Health Effects:**

**Acute:** Mechanical irritation of the skin, eyes and upper respiratory system. Fiber glass wool is classified as a nuisance dust by OSHA.

**Chronic:** Results from the most recent cohort and nested case-control epidemiological studies of U.S. workers exposed to glass wool have not provided evidence of an association between exposure to fibers and risk for respiratory cancer or mesothelioma.

**Skin Contact:** There are confirmed reports of contact dermatitis.

**Eye Contact:** A mechanical irritant which can cause moderate to severe eye irritation.

**Ingestion:** Non-hazardous when ingested. Potentially a mild irritant to the GI tract if excessive quantity is ingested.

**Medical Conditions Aggravated by Exposure:** Pre-existing chronic upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Skin disease such as dermatitis.

**Biosolubility:** All Knauf Insulation products covered by this MSDS are independently certified by EUCEB to be manufactured using biosoluble glass formulations and thus exempt from labeling under NTP or California Prop 65 requirements.

**SECTION IV - FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. If coughing and irritation develop, call a physician.

**Eye Contact:** Flush with large amounts of water until irritation subsides, as least 15 minutes. See a physician if irritation persists.

**Skin Contact:** Normal good personal hygiene practices. Wash with mild soap and warm water after each exposure.

**Ingestion:** Emergency procedures not normally required. May be a temporary irritant to the GI system.

**SECTION V - FIREFIGHTING MEASURES**

**NFPA Rating:**        **Health:** 1            **Fire:** 0            **Reactivity:** 0            **Other:** 0

**Extinguishing Method:** Use water, foam, dry chemical or carbon dioxide.

**Special Firefighting Procedures:** Wear self contained breathing apparatus and protective clothing. Dense smoke may limit visibility in enclosed areas.

**Fire or explosion Hazards:** Resin, paper or plastic facings will burn causing dense acrid smoke.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Clean-up Procedures:** Pick up or shovel material into waste container taking care to minimize dust and fiber generation. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant.

**Personal Precautions:** If dusty conditions exist, wear a face mask approved for use with dusts such as 3M 8210, N95 or equivalent.

**Environmental Precautions:** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. Comply with federal, state and local regulations.

## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in dry area. Keep area clean. Vacuum clean dust. Use a dust suppressant if sweeping is necessary.

**Special Sensitivity or Incompatibility:** Hydrofluoric acid will react with and dissolve glass.

**Handling Precautions:** Assure proper respiratory protection if dust potential exceeds PEL/TLV.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

\* **Heat-Up Precautions:** During initial heat-up of high temperature insulation products to temperatures above 350°F, an odor and smoke may be given off. Adequate ventilation should be provided to protect against fumes. In confined spaces, occupants should wear self-contained breathing apparatus during this period.

**Engineering Controls:** Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

**Respiratory Protection:** When over PEL/TLV wear an approved respirator such as 3M 8210, N95 or equivalent, to protect against respirable glass wool fibers. Concentrations of fibers that exceed the recommendations of the mask manufacturer will need a higher level of respiratory protection, such as a half mask respirator with appropriate dust filters.

**Eye Protection:** Wear safety glasses with side shields, goggles or face shield when handling, installing or fabricating to protect eyes against dust and fibers.

**Skin Protection (clothing):** Long-sleeved, loose fitting clothes and head covering are recommended. Wash work clothes separately from other clothing, towels and linens to prevent fiber migration. Rinse washer thoroughly.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Brown or tan fibrous product.

**Melting Point:** >1300°F

**Specific Gravity:** Variable

**Solubility in Water:** Insoluble

**Pure/Mixture:** Mixture

## SECTION X - REACTIVITY

**Stability:** This is a stable, non-reactive product.

**Hazardous Decomposition Products:** Thermal decomposition of the resin may include carbon dioxide, carbon monoxide, carbon particulate and traces of other decomposition products.

**SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION****LD<sub>50</sub>:** N/Av**LC<sub>50</sub>:** N/Av**Toxicological Hazards:** See the Emergency overview on page 1, Section II.**Ecological Hazards:** No data exists for this product.**Teratogenicity, Mutagenicity, other Reproductive Effects:** None known**SECTION XII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** This product is not regulated under RCRA Hazardous Waste Regulations. May be disposed in landfill. If unsure, contact the local office of the USEPA, your local public health department or the local landfill regulators.

**SECTION XIII - TRANSPORTATION INFORMATION****US DOT Shipping Name:** Not regulated**DOT Label:** None**UN/NA Number:** None**SECTION XIV - REGULATORY INFORMATION****OSHA Status:** This product is regulated as a nuisance dust under OSHA criteria.**TSCA/CEPA Status:** All components of this product are included in the TSCA and CEPA Chemical Inventories.**CERCLA Reportable Quantity:** N/Av**SARA Title III:**

**Section 302 Extremely Hazardous:** This product contains no extremely hazardous substances as defined and listed in section #302.

**Section 311/312 Hazard Categories:** This product is not classified as hazardous.

**Section 313 Toxic Chemicals:** This product does not contain substances which are reportable under Section 313.

**California Safe Drinking Water and Toxic Enforcement Act (Prop. 65)** This product is exempt from labeling requirements under this Act.

**Canada (WHMIS):** This product is a class D2A controlled product under Canadian WHMIS regulations.

**SECTION XV - APPROVALS****Reason for Issue:** General Review**Rev:** **Approval Date:** 5/7/14**Prepared by:** Knauf Insulation**Supersedes Date:** 1/31/13**SECTION XVI - DISCLAIMER**

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.

\*\*This information is for components in their liquid state for transit purposes. Cured foam is an inert solid.

## SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Guardian Energy Technologies, Inc.**  
2033 Milwaukee Ave #136  
Riverwoods, IL 60015 USA  
1-800-516-0949

**Emergency Phone Number (Chemtrec):** 1-800-424-9300 (#217866)  
Outside of U.S.A., call collect: 001-703-527-3887

**Product Identifier:** Foam It Green Spray Foam Insulation Kits | Component A

**Other Means of Identification:** Polymeric MDI mixture.

**Recommended Use:** Component in polyurethane foam systems.

### SECTION 2 – HAZARDS IDENTIFICATION

**OSHA/GHS Classification:**

Compressed Gas  
Respiratory Sensitizer Category 1  
Skin Sensitizer Category 1  
Skin Irritant Category 2  
Eye Irritant Category 2B  
Specific Organ Toxicity – Single Exposure Category 3

**Label Elements:**

**Signal Word:** DANGER

**Pictogram(s):**



**Hazard Statement(s):**

H280: Contains gas under pressure; may explode if heated  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H320: Causes eye irritation.  
H334: May cause allergy or asthma like symptoms or breathing difficulties if inhaled.  
H335+H336: May cause respiratory irritation, drowsiness, or dizziness.

**Precautionary Statement(s):**

P102: Keep out of reach of children.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P251: Pressurized container: Do not pierce or burn, even after use.  
P261: Avoid breathing vapor, mist, or spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing must not be allowed out of the workplace.  
P281: Wear protective gloves/protective clothing/eye protection/ face protection.  
P285: In case of inadequate ventilation: wear respiratory protection.  
P302+P352+P333+P313: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P312: If experiencing respiratory symptoms or feel unwell: Call a POISON CENTER or doctor.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P362: Take off contaminated clothing and wash it before reuse.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.  
 P410: Protect from sunlight.  
 P411: Store at temperatures not exceeding 120°F (48°C).  
 P412: Do not expose to temperatures exceeding 250°F (121°C).  
 P501: Dispose of contents/container in accordance with local, state, national, and international regulations.

**Hazards Not Otherwise Classified:**

Tetrafluoroethane vapors may displace oxygen and cause asphyxiation. System is pressurized.

**1% of the mixture consists of ingredient(s) of unknown acute toxicity**

### **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Components	CAS #	% by Weight
Polymethylene polyphenyl isocyanate containing 4,4' Methylene bisphenyl isocyanate	009016-87-9 000101-68-8	90-100%
Tetrafluoroethane	811-97-2	5-10%

### **SECTION 4 - FIRST AID MEASURES**

**Emergency and First Aid Procedures:**

**Eyes:** Flush eyes with large amounts of water for at least 15 minutes. Get medical attention.

**Skin:** Wash skin thoroughly with large amounts of water. Consult a physician if irritation develops or persists. Remove contaminated clothing and wash before re-use. An MDI skin decontamination study demonstrated that cleaning very soon after exposure is important, and that a Polyglycol-based skin cleanser or corn oil may be more effective than soap and water.

**Inhalation:** If affected by vapors, remove patient to fresh air and get medical attention. Give oxygen or artificial respiration if necessary. Do not give stimulants. Epinephrine and similar drugs may adversely affect the heart due to a possible risk of eliciting cardiac dysrhythmias.

**Ingestion:** If swallowed, do not induce vomiting. Get medical attention immediately. The hazard of aspirating material into the lungs is greater than the hazard associated with allowing material to progress through the intestinal tract.

**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, Expectorants, and Antitussives may be of help. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 24-48 hours for signs of respiratory distress.

### **SECTION 5 - FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Carbon Dioxide, Dry Chemical, or Alcohol Foam are preferred. Water is not recommended but may be applied in large amounts as a fine spray if other extinguishing media are not available.

**Unsuitable Extinguishing Media:** Do not use direct water stream as it may spread fire. Product reacts with water. Reaction may be violent, producing heat and gases.

**Specific Hazards:** During a fire dense smoke will be produced containing the original material as well as unidentified toxic or irritating compounds. Hazardous combustion products may include, but are not limited to, nitrogen oxides, isocyanates, hydrogen cyanide, carbon monoxide, and carbon dioxide. Sealed container may rupture from gases generated in a fire situation. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperatures. This may result in spontaneous combustion.

**Protective Equipment / Precautions for Fire-fighters:** Fire-fighters should wear full protective fire-fighting gear including a full face piece, positive-pressure self-contained breathing apparatus (SCBA). Avoid contact with this material during fire-fighting operations. Consider fighting fire from a remote location with unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from area if you hear rising sound from a venting safety device or the container discolors.

### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Precautions / Protective Equipment:** Always clear area and use protective equipment before attempting to stop spill. Wear suitable chemical resistant clothing including foot protection. Always wear eye protection and gloves when handling this product.

**Emergency Procedures:** Avoid any contact. Barricade area. Clear non-emergency personnel from area. Keep upwind of spill. Ventilate area of leak or spill. The area must be evacuated and reentered by persons equipped for decontamination.

**Containment and Cleanup:** Contain liquid to prevent contamination of soil, surface water or ground water. Keep out of ditches, sewers, and water supplies. Should the product enter sewers or drains, it should be pumped into an open vessel. Emergency services may need to be called to assist in the cleanup operation.

Supplies of suitable decontaminant should always be kept available. Absorb with material such as: sawdust, vermiculite, dirt, sand, clay, cob grit, Milisorb. Avoid materials such as cement powder. Collect material in suitable and properly labeled open containers. Do not place in sealed container. Prolonged contact with water results in a chemical reaction which may result in rupture of the container. Place in: poly lined fiber packs, plastic drums, or properly labeled metal containers. Remove to a well-ventilated area. Clean up floor areas. Attempt to neutralize by decontaminant solution: formulation 1: Sodium Carbonate 5-10%; Liquid Detergent 0.2%; Water to make up to 100%. Or formulation 2: Concentrated ammonia solution 3-8%; Liquid Detergent 0.2%; Water to make up 100%. If ammonia is used, use good ventilation to prevent vapor exposure. If you have any questions on how to neutralize call Guardian Energy Technologies, Inc.

## **SECTION 7 – HANDLING AND STORAGE**

**Precautions for Safe Handling:** Avoid contact of this product with water at all times during handling and storage. Do not eat, drink, or smoke where this product is used. Keep equipment clean and use disposable containers and tools whenever possible.

**Conditions for Safe Storage:** Store in a cool, covered, well-ventilated place away from direct sunlight. Keep container tightly closed and store locked up. Do not expose to moisture. Do not expose to excessive heat. Do not allow to freeze. Ideal storage temperatures are 65°-90°F (18°-32°C). Keep out of reach of children.

**Incompatibilities:** Reacts with water.

## **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **PEL/TLV:**

Methylene bisphenyl isocyanate (MDI)  
 OSHA PEL: 0.02 ppm  
 ACGIH TLV: 0.005 ppm  
 1,1,1,2-Tetrafluoroethane  
 WEEL TWA: 1000 ppm (4240 mg/m<sup>3</sup>)

**Engineering Controls:** Use only with adequate ventilation. Provide exhaust ventilation to control airborne concentrations. Exhaust systems should be designed to move the air away from workers and the work area. Odor is an inadequate warning of excessive exposure.

**Protective Equipment:** Wear chemical goggles and protective clothing impervious to this material including gloves, face shield, boots, apron, or full-body suit. If concentration levels exceed exposure limits, use a NIOSH approved air-purifying respirator equipped with an organic vapor cartridge and particle filter. Employers are required to implement a cartridge change-out schedule for such respirators. If concentration levels are unknown or extremely high use a positive-pressure self-contained breathing apparatus.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Brown liquid	<b>LFL/UFL:</b>	Not Applicable.
<b>Odor:</b>	Slightly musty	<b>Vapor Pressure:</b>	<1 x 10 <sup>-5</sup> mmHg @ 25°C (77°F)
<b>Odor Threshold:</b>	Well above the exposure limits.	<b>Vapor Density:</b>	8.5 (air = 1)
<b>pH:</b>	No Data.	<b>Relative Density:</b>	1.24 @ 20°C
<b>Melting Point:</b>	No Data.	<b>Solubility:</b>	Reacts with water.
<b>Freezing Point:</b>	No Data.	<b>Partition Coefficient:</b>	No Data
<b>Boiling Point:</b>	410°F (210°C) @ 5 mmHg	<b>Auto-Ignition Temp.:</b>	>1100°F (600°C)
<b>Flash Point:</b>	>400°F (204°C)	<b>Viscosity:</b>	No Data
<b>Evaporation Rate:</b>	No Data.		

## **SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity/Chemical Stability:** Stable under recommended storage conditions. Will react with water.

**Hazardous Reactions:** Material reacts slowly with water releasing carbon dioxide. This reaction can cause pressure to build and closed containers to rupture. Elevated temperatures accelerate this reaction.

**Conditions to Avoid:** Heat, flames, welding arcs, and atmospheric moisture.

**Incompatible Materials:** Acids, alcohols, water, amines, ammonia, bases, and strong oxidizers. Avoid contact with metals such as: aluminum, zinc, brass, copper, galvanized metals, and tin.

**Hazardous Decomposition Products:** Hazardous decomposition products vary depending upon temperature, air supply, and presence of other materials. Gases, such as, carbon monoxide and carbon dioxide are likely.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.

**Toxicity Data:**

Oral – LD50 = &gt;10,000 mg/kg

Dermal – LD50 = &gt;2000 mg/kg

**Effects and Symptoms:**

**Immediate:** May cause eye and skin irritation. Excessive exposure by inhalation may cause irritation of the eyes, respiratory tract, and lungs. Pulmonary edema may also occur. Tetrafluoroethane vapors may cause drowsiness or dizziness. Excessive exposure can lead to unconsciousness or asphyxiation.

**Delayed:** Respiratory symptoms may not present for several hours.

**Chronic:** May cause skin and respiratory sensitization. Skin contact may play a role in respiratory sensitization. Sensitized individuals may have allergic reactions to concentrations below exposure guidelines. Repeated, excessive exposures to MDI aerosols have been shown to cause tissue injury to the upper respiratory tract and lungs in laboratory animals. Decreased lung function has been associated with overexposure to isocyanates.

**Carcinogen:** Lung tumors have been observed in lab animals in correlation with persistent lung injury caused by repeated, excessive exposures to aerosols. Such exposures are unlikely to occur in actual working environments.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Based on information for MDI and polymeric MDI. The ecotoxicity measurement is that of the hydrolyzed product generally under conditions maximizing production of soluble species. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100mg/L in the most sensitive species). The LC50 for earthworm *eisenia foetida* is >1000 mg/kg.

**Persistence and Degradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polymers which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

**Bioaccumulative Potential:** No Data.

**Mobility in Soil:** Movement is expected to be limited by the product's reactivity with water, forming predominantly insoluble polymers.

**Other Adverse Effects:** None Known.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste, Residue, or Chemical:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. The preferred option for disposal is sending waste to a licensed and permitted recycler, reclaimer, incinerator, or other thermal destruction device. All disposal methods must be in compliance with local, state, national, and international regulations. Compliance with these regulations is the sole responsibility of the waste generator. GUARDIAN ENERGY TECHNOLOGIES, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION.

**Container:** Containers may contain residue and should be treated with the same considerations as the product itself.

**SECTION 14 – TRANSPORTATION INFORMATION**

**Note:** The U.S. Department of Transportation requires that any person preparing a hazardous material for shipping, including packing, marking, labeling and preparation of documents must be trained in accordance with 49 CFR Parts 100 – 185. Contact the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration at <http://phmsa.dot.gov/hazmat> at 1-800-467-4922 or email: [phmsa.hm-training@dot.gov](mailto:phmsa.hm-training@dot.gov) for information on their CD ROM Training Module for Hazardous Materials Transportation.

<b>DOT (Over the road transportation):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure ,N.O.S.(Nitrogen) <b>Shipping Class:</b> 60 <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A	<b>Bulk Transport (&gt;5000 lbs.):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen), RQ (Methylene Diphenyl Diisocyanate) <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Special Precautions:</b> None known
<b>IMDG (Ocean transportation):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen) <b>Shipping Class:</b> 60 <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Marine Pollutant:</b> No	<b>IATA (Air transportation):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen) <b>Shipping Class:</b> 60 <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Packing Instructions:</b> 218

**Note:** Additional certifications are required to ship hazardous material by ocean (IMDG) and air (IATA).

**SECTION 15 – REGULATORY INFORMATION**

**(Not meant to be all-inclusive – selected regulations represented)**

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, provincial, and local laws and regulations.

**US Regulations:**

**SARA 313 Information:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical Name	CAS #	Concentration
Methylene Bis(Phenylisocyanate) (MDI)	000101-68-8	42-45%
Polymeric Diphenylmethane Diisocyanate	009016-87-9	100%

**SARA Hazard Category:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

**Toxic Substances Control Act (TSCA):**

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

The CAS numbers for TSCA are:

- CAS# 009016-87-9
- CAS# 000101-68-8

**State Right-To-Know:** The following product components are cited on certain lists as mentioned.

Chemical Name	CAS #	LIST
Methylene Bis(Phenylisocyanate) (MDI)	000101-68-8	NJ3, NJ2, PA1, PA3
Polymeric Diphenylmethane Diisocyanate	009016-87-9	NJ2

NJ2 = New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3 = New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1 = Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%)

PA3 = Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%)

**OSHA Hazard Communication Standard:** This product is a "Hazard Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):** This product contains the following substance(s) listed as "Hazardous Substances: under CERCLA which may require reporting of releases:

Chemical Name	CAS #	Reportable Quantity (lbs.)	% in Product
Methylene bisphenyl isocyanate	000101-68-8	5000	42-45%

**Canadian Regulations:**

**WHMIS Information:** The Canadian Workplace Hazardous Materials System (WHMIS) Classification for this product is:

D2A – Respiratory tract sensitizer.

D2B – Eye or skin irritant.

D2B – Skin sensitizer.

**CPR Statement:** This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this Safety Data Sheet contains all the information required by the CPR.

**Hazardous Products Act Information:** This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA Section 13 and 14):

Components	CAS #	% by Weight
Methylene Bis(Phenylisocyanate) (MDI)	000101-68-8	42-45%
Polymeric Diphenylmethane Diisocyanate	009016-87-9	90-100%

**SECTION 16 – OTHER INFORMATION**

**NFPA Ratings:**

Health	2
Flammability	1
Reactivity	1
SPECIAL HAZARD:	Avoid Water

**Other Information:** The reaction of polyols and isocyanates generate heat. Contact of the reacting materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. In addition, such contact increases the risk of isocyanate vapors.

**Date of Preparation/Last Revision:** March 15, 2020

**Prepared by:** Guardian Energy Technologies, Inc.

**WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, GUARDIAN ENERGY TECHNOLOGIES INC. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ANY LIABILITY FROM RELIANCE THEREON.**

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

Guardian Energy Technologies, Inc.  
2033 Milwaukee Ave #136  
Riverwoods, IL 60015 USA  
1-800-519-0949

Emergency Phone Number (Chemtrec): 1-800-424-9300 (#217866)  
Outside of U.S.A., call collect: 001-703-527-3887

**Product Identifier:** Foam It Green Spray Foam Insulation Kits | Component B

**Other Means of Identification:** Polyether Polyol Blend

**Recommended Use:** Component in polyurethane foam systems.

## SECTION 2 – HAZARDS IDENTIFICATION

### **OSHA/GHS Classification:**

Compressed Gas  
Skin Irritant Category 2  
Skin Irritant Category 2B  
Specific Target Organ Toxicity – Single Exposure Category 3

### **Label Elements:**

**Signal Word:** DANGER

### **Pictogram(s):**



### **Hazard Statement(s):**

H280: Contains gas under pressure; may explode if heated  
H315: Causes skin irritation.  
H320: Causes eye irritation.  
H335: May cause respiratory irritation.  
H360: May damage fertility of the unborn child if ingested.

### **Precautionary Statement(s):**

P102: Keep out of reach of children.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P251: Pressurized container: Do not pierce or burn, even after use.  
P261: Avoid breathing vapor, mist, or spray.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P281: Wear protective gloves/protective clothing/eye protection/ face protection.  
P285: In case of inadequate ventilation: wear respiratory protection.  
P302+P352+P332+P313: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P312: If experiencing respiratory symptoms or feel unwell: Call a POISON CENTER or doctor.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P362: Take off contaminated clothing and wash it before reuse.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P410: Protect from sunlight.  
P411: Store at temperatures not exceeding 120°F (48°C).  
P412: Do not expose to temperatures exceeding 250°F (121°C).  
P501: Dispose of contents/container in accordance with local, state, national, and international regulations.

### **Hazards Not Otherwise Classified:**

Contains substances that can displace oxygen in the air.

**SECTION 3 – HAZARDS IDENTIFICATION**

Hazardous Components	CAS #	% by Weight
Polyol Blend	Unassigned	40%
Flame Retardant Mixture	Unassigned	20%
Tetrafluoroethane, 1,1,1,2-	811-97-2	15-20%

**SECTION 4 – FIRST AID PROCEDURES****Emergency and First Aid Procedures:**

**Eyes:** Flush eyes with large amounts of water for at least 15 minutes. Get medical attention.

**Skin:** Wash skin thoroughly with large amounts of water. Consult a physician if irritation develops or persists. Remove contaminated clothing and wash before re-use.

**Inhalation:** If affected by vapors, remove patient to fresh air and get medical attention. Give oxygen or artificial respiration if necessary. Do not give stimulants. Epinephrine and similar drugs may adversely affect the heart due to a possible risk of eliciting cardiac dysrhythmias.

**Ingestion:** If swallowed, do not induce vomiting. Get medical attention immediately. The hazard of aspirating material into the lungs is greater than the hazard associated with allowing material to progress through the intestinal tract.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Foam, alcohol foam, carbon dioxide, dry chemical, or water fog.

**Unsuitable Extinguishing Media:** Do not use direct water stream as it may spread fire.

**Specific Hazards:** May emit toxic or irritation fumes if burned. Sealed containers may build pressure if exposed to high temperatures as experienced in a fire. If safe to do, spray containers exposed to fire and heat with water to keep cool.

**Protective Equipment / Precautions for Fire-fighters:** Fire-fighters should wear full protective clothing to guard against exposure to toxic and irritating fumes as well as a self-contained breathing apparatus (SCBA) with full face piece operated in a positive pressure mode.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Precautions / Protective Equipment:** Only properly trained and protected personnel should attend to spills. See Section 8 for information on protective equipment.

**Emergency Procedures:** Clear non-emergency personnel from area. For large spills, emergency services may need to be contacted.

**Containment and Cleanup:** Contain and absorb spill with inert absorbent material. Shovel material into properly labeled containers for disposal.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions for Safe Handling:** Avoid skin and eye contact. Avoid breathing vapors by providing adequate ventilation or appropriate respiratory protection.

**Conditions for Safe Storage:** Store in a cool, covered, well-ventilated place away from direct sunlight. Keep container tightly closed and store locked up. Do not expose to moisture. Do not expose to excessive heat. Do not allow to freeze. Ideal storage temperatures are 65°-90°F (18°-32°C). Keep out of reach of children.

**Incompatibilities:** See section 10.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION****PEL/TLV:**

Tetrafluoroethane –  
TWA = 1000 ppm

**Engineering Controls:** Mechanical or local exhaust is required to keep airborne concentrations at safe levels. Exhaust systems should be monitored regularly in case of obstruction.

**Protective Equipment:** Wear chemical resistant gloves and clothing, including a face shield, to prevent skin contact. Wear safety glasses or splash goggles to prevent eye contact. Do not wear contact lenses.

**Protective Equipment:** Wear chemical goggles and protective clothing impervious to this material including gloves, face shield, boots, apron, or full-body suit. If concentration levels exceed exposure limits, use a NIOSH approved air-purifying respirator equipped with an organic vapor cartridge and particle filter. Employers are required to implement a cartridge change-out schedule for such respirators. If concentration levels are unknown or extremely high use a positive-pressure self-contained breathing apparatus.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear to Dark Amber liquid.

**Odor:** Faint ethereal odor.

**LFL/UFL:** No Data

**Vapor Pressure:** <25 psia @ 25°C (77°F)

<b>Odor Threshold:</b>	No Data.	<b>Vapor Density:</b>	Heavier than air
<b>pH:</b>	No Data.	<b>Relative Density:</b>	1.16 @ 25°C (77°F)
<b>Melting Point:</b>	No Data.	<b>Solubility:</b>	Negligibly soluble in water (<0.1%)
<b>Freezing Point:</b>	No Data.	<b>Partition Coefficient:</b>	No Data
<b>Boiling Point:</b>	No Data.	<b>Auto-Ignition Temp.:</b>	No Data
<b>Flash Point:</b>	>300°F (149°C)	<b>Viscosity:</b>	No Data
<b>Evaporation Rate:</b>	Faster than n-butyl acetate.		

## SECTION 10 – STABILITY AND REACTIVITY

**Reactivity/Chemical Stability:** Stable under normal handling and storage conditions. Polyols react with isocyanates generating heat and gases. If product is contaminated pressure may build to hazardous levels in sealed containers.

**Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Open flames, welding arcs, and other high temperature source can induce thermal decomposition.

**Incompatible Materials:** Avoid long storage in aluminum, other alkali or alkaline earth metals, or their alloys.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen chloride and/or hydrogen fluoride, traces of phosphorous oxides, and traces of carbonyl halides such as phosgene.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.

### **Toxicity Data:**

Oral – LD50 (Estimated) = >2400 mg/kg

Dermal – LD50 (Estimated) = >2300 mg/kg

### **Effects and Symptoms:**

**Immediate:** Liquid contact can cause eye damage. Vapors may be irritating to eyes. Skin contact may cause irritation. Excessive inhalation of Tetrafluoroethane vapors can cause respiratory irritation, dizziness, and drowsiness. They may even cause unconsciousness or asphyxiation.

**Delayed:** If not properly cared for areas of skin exposure may develop serious irritation and drying.

**Chronic:** Ingestion may be damaging to fertility and the unborn child. Consult a physician if exposed. . Overexposure to Tetrafluoroethane can cause cardiac sensitization to epinephrine.

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** No Data.

**Persistence and Degradability:** No Data.

**Bio accumulative Potential:** No Data.

**Mobility in Soil:** No Data.

**Other Adverse Effects:** This product contains a substance that may be toxic to fish and aquatic organisms.

**Note:** While there is no data on the ecotoxicity of this product it is always best practice, when handling any chemical, to prevent it from entering drains, sewers, soil, or any bodies of water.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste, Residue, or Chemical:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. The preferred option for disposal is sending waste to a licensed and permitted recycler, reclaimer, incinerator, or other thermal destruction device. All disposal methods must be in compliance with local, state, national, and international regulations. Compliance with these regulations is the sole responsibility of the waste generator. GUARDIAN ENERGY TECHNOLOGIES, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION.

**Container:** Containers may contain residue and should be treated with the same considerations as the product itself.

## SECTION 14 – TRANSPORTATION INFORMATION

**Note:** The U.S. Department of Transportation requires that any person preparing a hazardous material for shipping, including packing, marking, labeling and preparation of documents must be trained in accordance with 49 CFR Parts 100 – 185. Contact the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration at <http://phmsa.dot.gov/hazmat> at 1-800-467-4922 or email: [phmsa.hm-training@dot.gov](mailto:phmsa.hm-training@dot.gov) for information on their CD ROM Training Module for Hazardous Materials Transportation.

<b>DOT (Over the road transportation):</b>	<b>Bulk Transport (&gt;5000 lbs.):</b>
<b>UN #:</b> UN3500	<b>UN #:</b> UN3500
<b>Shipping Name:</b> Chemical Under Pressure ,N.O.S.(Nitrogen)	<b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen), RQ (Methylene Diphenyl Diisocyanate)
<b>Shipping Class:</b> 60	
<b>Hazard Class:</b> 2.2	

<b>Packing Group:</b> N/A	<b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Special Precautions:</b> None known
<b>IMDG (Ocean transportation):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen) <b>Shipping Class:</b> 60 <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Marine Pollutant:</b> No	<b>IATA (Air transportation):</b>  <b>UN #:</b> UN3500 <b>Shipping Name:</b> Chemical Under Pressure, N.O.S. (Nitrogen) <b>Shipping Class:</b> 60 <b>Hazard Class:</b> 2.2 <b>Packing Group:</b> N/A <b>Packing Instructions:</b> 218

**Note:** Additional certifications are required to ship hazardous material by ocean (IMDG) and air (IATA).

## SECTION 15 – REGULATORY INFORMATION

**(Not meant to be all-inclusive – selected regulations represented)**

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, provincial, and local laws and regulations.

### **US Regulations:**

**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 1984 (SARA Title III) and is considered, under applicable definitions, to meet the following categories

- An immediate health hazard
- A delayed health hazard

**TSCA (Toxic Substances Control Act):** Regulations 40 CFR 710 – All ingredients are on the TSCA Section 8 (b) Inventory.

### **Canadian Regulations:**

The Workplace Hazardous Materials Information System (WHMIS) Classifications for this product are:

- D1B
- D2A
- D2B

## SECTION 16 – OTHER INFORMATION

**Other Information:** The reaction of polyols and isocyanates generate heat. Contact of the reaction materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash the affected areas with plenty of water and seek medical assistance. This product includes pesticide solely for antimicrobial protection of the cured foam itself.

**Date of Preparation/Last Revision:** March 15, 2020

**Prepared by:** Guardian Energy Technologies, Inc

**WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, GUARDIAN ENERGY TECHNOLOGIES INC. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ANY LIABILITY FROM RELIANCE THEREON.**



### SAFETY DATA SHEET

#### Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US  
Product number FO00889US

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

Identified uses Cleaning agent.  
Uses advised against No specific uses advised against are identified.

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

Supplier Cbee Europe Ltd  
Eton House  
2nd Floor  
18-24 Paradise Road  
Richmond  
TW9 1SE, UK  
Tel: +44 (0) 208 614 7120  
Fax: +44 (0) 208 940 2040  
consumerservices@clorox.co.uk

##### 1.4. Emergency telephone number

Emergency telephone +44 (0) 208 614 7120  
Monday - Thursday:- 09:00 - 17:30  
Friday:- 09:00 - 17:00

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

###### Physical hazards

Not Classified

###### Health hazards

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

###### Environmental hazards

Not Classified

###### Classification (67/548/EEC or 1999/45/EC)

Xi; R36/38

##### 2.2. Label elements

###### Pictogram



Signal word Warning

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US**

**Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

**Precautionary statements**

P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 Wash contaminated skin thoroughly after handling.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

**Detergent labelling**

< 5% perfumes

**Supplementary precautionary statements**

P362+P364 Take off contaminated clothing and wash it before reuse.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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

**3.2. Mixtures**

<p><b>2-Aminoethanol</b> <span style="float: right;">0.25 - &lt;0.5%</span>                  CAS number: 141-43-5 EC number: 205-483-3</p>												
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Classification</b></td> <td style="width: 50%;"><b>Classification (67/548/EEC or 1999/45/EC)</b></td> </tr> <tr> <td>Acute Tox. 4 - H302</td> <td>Xn; R20/21/22. C; R34</td> </tr> <tr> <td>Acute Tox. 4 - H312</td> <td></td> </tr> <tr> <td>Acute Tox. 4 - H332</td> <td></td> </tr> <tr> <td>Skin Corr. 1B - H314</td> <td></td> </tr> <tr> <td>STOT SE 3 - H335</td> <td></td> </tr> </table>	<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	Acute Tox. 4 - H302	Xn; R20/21/22. C; R34	Acute Tox. 4 - H312		Acute Tox. 4 - H332		Skin Corr. 1B - H314		STOT SE 3 - H335	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>											
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Acute Tox. 4 - H312												
Acute Tox. 4 - H332												
Skin Corr. 1B - H314												
STOT SE 3 - H335												
<p><b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b> <span style="float: right;">0.025 - &lt;0.25%</span>                  CAS number: 68424-85-1 EC number: 270-325-2                  M factor (Acute) = 100</p>												
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Classification</b></td> <td style="width: 50%;"><b>Classification (67/548/EEC or 1999/45/EC)</b></td> </tr> <tr> <td>Acute Tox. 3 - H301</td> <td>T; R24/25. C; R34. N; R50</td> </tr> <tr> <td>Acute Tox. 3 - H311</td> <td></td> </tr> <tr> <td>Skin Corr. 1C - H314</td> <td></td> </tr> <tr> <td>Aquatic Acute 1 - H400</td> <td></td> </tr> </table>	<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	Acute Tox. 3 - H301	T; R24/25. C; R34. N; R50	Acute Tox. 3 - H311		Skin Corr. 1C - H314		Aquatic Acute 1 - H400			
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>											
Acute Tox. 3 - H301	T; R24/25. C; R34. N; R50											
Acute Tox. 3 - H311												
Skin Corr. 1C - H314												
Aquatic Acute 1 - H400												
<p><b>Ethanol</b> <span style="float: right;">0.025 - &lt;0.25%</span>                  CAS number: 64-17-5 EC number: 200-578-6</p>												
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Classification</b></td> <td style="width: 50%;"><b>Classification (67/548/EEC or 1999/45/EC)</b></td> </tr> <tr> <td>Flam. Liq. 2 - H225</td> <td>F; R11</td> </tr> </table>	<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	Flam. Liq. 2 - H225	F; R11								
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>											
Flam. Liq. 2 - H225	F; R11											

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

## Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

### **Ingestion**

Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

### **Skin contact**

Wash skin thoroughly with soap and water.

### **Eye contact**

Remove any contact lenses and open eyelids wide apart. Continue to rinse.

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

### **Inhalation**

Irritation of nose, throat and airway.

### **Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

### **Skin contact**

Skin irritation.

### **Eye contact**

Irritation of eyes and mucous membranes. Prolonged contact may cause redness and/or tearing.

## **4.3. Indication of any immediate medical attention and special treatment needed**

### **Notes for the doctor**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

#### **Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

### **5.3. Advice for firefighters**

#### **Special protective equipment for firefighters**

Use protective equipment appropriate for surrounding materials.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and prolonged skin contact.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

## Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US

### 6.4. Reference to other sections

#### Reference to other sections

See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Read and follow manufacturer's recommendations.

#### Advice on general occupational hygiene

Avoid contact with eyes and prolonged skin contact.

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

#### Storage precautions

Store in a cool and well-ventilated place.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### 2-Aminoethanol

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 3 ppm 7.6 mg/m<sup>3</sup>

Sk

##### Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### Benzene

Long-term exposure limit (8-hour TWA): WEL 1 ppm 3.25 mg/m<sup>3</sup>

Carc, Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Carc = Capable of causing cancer and/or heritable genetic damage.

### 8.2. Exposure controls

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

#### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Coloured liquid.

#### Colour

Green.

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US****Odour**

Citrus. Floral.

**Odour threshold**

Not determined.

**pH**

pH (concentrated solution): 9 - 11.5

**Melting point**

Not relevant.

**Initial boiling point and range**

Not determined.

**Flash point**

> 93°C CC (Closed cup).

**Evaporation rate**

Not determined.

**Evaporation factor**

Not determined.

**Flammability (solid, gas)**

Not relevant.

**Upper/lower flammability or explosive limits**

Not relevant.

**Vapour pressure**

Not determined.

**Vapour density**

Not relevant.

**Relative density**

Not determined.

**Bulk density**

Not determined.

**Partition coefficient**

Not determined.

**Auto-ignition temperature**

Not relevant.

**Decomposition Temperature**

Not relevant.

**Viscosity**

Not determined.

**Explosive properties**

Not considered to be explosive.

**Oxidising properties**

The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

**9.2. Other information****Other information**

No information required.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US****10.2. Chemical stability****Stability**

Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

Will not polymerise.

**10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials****Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

**10.6. Hazardous decomposition products**

None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

Based on available data the classification criteria are not met.

**ATE oral (mg/kg)**

66,666.66666667

**Acute toxicity - dermal**

Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)**

200000.0

**Acute toxicity - inhalation**

Based on available data the classification criteria are not met.

**Skin corrosion/irritation****Animal data**

Dose: 0.5 ml, Rabbit, Skin Irrit. 2 - H315

**Serious eye damage/irritation**

Eye Irrit. 2 - H319 Dose: 0.1 ml, 1 second, Rabbit

**Respiratory sensitisation**

Based on available data the classification criteria are not met.

**Skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity****Reproductive toxicity - fertility**

Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure****STOT - single exposure**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure****STOT - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Not anticipated to present an aspiration hazard, based on chemical structure.

**Toxicological information on ingredients.****2-Aminoethanol****Acute toxicity - oral****Acute toxicity oral (LD50 mg/kg)**

1,515.0

**Species**

Rat

REACH dossier information.

**ATE oral (mg/kg)**

1,515.0

**Acute toxicity - dermal**

Converted acute toxicity point estimate (cATpE)

**ATE dermal (mg/kg)**

1100

**Acute toxicity - inhalation**

Converted acute toxicity point estimate (cATpE)

**ATE inhalation (vapours mg/l)**

11.0

**Skin corrosion/irritation****Animal data**

Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information. Skin Corr. 1B - H314 Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

REACH dossier information. Corrosive to skin. Corrosivity to eyes is assumed.

**Skin sensitisation**

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.

**Germ cell mutagenicity****Genotoxicity - in vitro**

Chromosome aberration: Negative. REACH dossier information.

**Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information.

**Reproductive toxicity****Reproductive toxicity - fertility**

Two-generation study - NOAEL 300 mg/kg/day, Oral, Rat P REACH dossier information.

**Reproductive toxicity - development**

Maternal toxicity: - NOAEL: 120 mg/kg/day, Oral, Rat REACH dossier information.

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides****Acute toxicity - oral****ATE oral (mg/kg)**

100.0

**Acute toxicity - dermal****ATE dermal (mg/kg)**

300.0

**Ethanol****Acute toxicity - oral****Acute toxicity oral (LD50 mg/kg)**

10,470.0

**Species**

Rat

REACH dossier information.

**ATE oral (mg/kg)**

10,470.0

**Acute toxicity - inhalation****Acute toxicity inhalation (LC50 vapours mg/l)**

116.9

**Species**

Rat

REACH dossier information.

**ATE inhalation (vapours mg/l)**

116.9

**Skin corrosion/irritation****Animal data**

Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Not irritating.

**Serious eye damage/irritation**

Not irritating.

**Germ cell mutagenicity****Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information.

**Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information.

**Reproductive toxicity****Reproductive toxicity - fertility**

Two-generation study - NOAEL 15 %, Oral, Mouse P Two-generation study - NOAEL 10 %, Oral, Mouse F1 REACH dossier information.

**Reproductive toxicity - development**

Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.

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**SECTION 12: Ecological Information**

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**12.1. Toxicity**

Not considered toxic to fish.

## Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US

### Ecological information on ingredients.

#### 2-Aminoethanol

##### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 349 mg/l, Cyprinus carpio (Common carp) REACH dossier information.

##### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 65 mg/l, Daphnia magna REACH dossier information.

##### **Acute toxicity - aquatic plants**

NOEC, 72 hours: 1 mg/l, Pseudokirchneriella subcapitata EC<sub>50</sub>, 72 hours: 2.8 mg/l, Pseudokirchneriella subcapitata REACH dossier information.

##### **Chronic toxicity - fish early life stage**

NOEC, 41 days: 1.24 mg/l, Oryzias latipes (Red killifish) REACH dossier information.

##### **Chronic toxicity - aquatic invertebrates**

NOEC, 21 days: 0.85 mg/l, Daphnia magna EC<sub>50</sub>, 21 days: 2.5 mg/l, Daphnia magna REACH dossier information.

#### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

##### Acute aquatic toxicity

##### **LE(C)<sub>50</sub>**

0.001 < L(E)C<sub>50</sub> ≤ 0.01

##### **M factor (Acute)**

100

#### Ethanol

##### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) LC<sub>0</sub>, 96 hours: 7960 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

##### **Acute toxicity - aquatic invertebrates**

LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia REACH dossier information.

##### **Acute toxicity - aquatic plants**

EC<sub>50</sub>, 96 hours: 675 mg/l, Freshwater algae EC<sub>50</sub>, 72 hours: 275 mg/l, Freshwater algae EC<sub>100</sub>, 72 hours: 14200 mg/l, Freshwater algae REACH dossier information.

##### **Chronic toxicity - aquatic invertebrates**

NOEC, 9 days: 9.6 mg/l, Daphnia magna REACH dossier information.

### 12.2. Persistence and degradability

#### **Persistence and degradability**

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

### Ecological information on ingredients.

#### 2-Aminoethanol

##### **Biodegradation**

Water - Degradation (>90%): 21 days REACH dossier information. The substance is readily biodegradable.

#### Ethanol

##### **Biodegradation**

Water - Degradation (~74%): 5 days Water - Degradation (~95%): 15 days Water - Degradation (~84%): 20 days REACH dossier information. The substance is readily biodegradable.

##### **Chemical oxygen demand**

1.99 g O<sub>2</sub>/g substance REACH dossier information.

### 12.3. Bioaccumulative potential

### Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US

No data available on bioaccumulation.

**Partition coefficient**

Not determined.

Ecological information on ingredients.

2-Aminoethanol

**Partition coefficient**

log Pow: -2.3 REACH dossier information.

Ethanol

**Partition coefficient**

log Pow: -0.35 REACH dossier information.

**12.4. Mobility in soil**

**Mobility**

The product is soluble in water.

Ecological information on ingredients.

2-Aminoethanol

**Henry's law constant**

0.000000118 Pa m<sup>3</sup>/mol @ 25°C REACH dossier information.

Ethanol

**Surface tension**

24.5 mN/m @ 20°C REACH dossier information.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Not relevant.

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods**

**General information**

Dispose of waste product or used containers in accordance with local regulations

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**SECTION 14: Transport information**

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**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

No transport warning sign required.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US**

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

EH40/2005 Workplace exposure limits.

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended)

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****Classification procedures according to Regulation (EC) 1272/2008**

Eye Irrit. 2 - H319, Skin Irrit. 2 - H315: Calculation method.

**Revision comments**

Classification according to CLP Annex I.

**Revision date** 14/05/2014**Revision** 2**Supersedes date** 01/09/2012**SDS number** 157**Risk phrases in full**

R11 Highly flammable.  
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 R24/25 Toxic in contact with skin and if swallowed.  
 R34 Causes burns.  
 R36/38 Irritating to eyes and skin.  
 R50 Very toxic to aquatic organisms.

**Hazard statements in full**

H225 Highly flammable liquid and vapour.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.

**Formula 409® Antibacterial All-Purpose Cleaner - Lemon - US****Disclaimer**

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# MATERIAL SAFETY DATA SHEET

Review Date: 04/29/2003

**SECTION 1**
**PRODUCT AND COMPANY IDENTIFICATION**
**PRODUCT: GN LS Diesel 2 Dyed**
**MSDS NUMBER: 400148E - 3**
**PRODUCT CODE(S): 01468**
**MANUFACTURER**

Shell Oil Products US

P. O. Box 4453

Houston, TX. 77210-4453

**TELEPHONE NUMBERS**
**Spill Information: (877) 242-7400**
**Health Information: (877) 504-9351**
**MSDS Assistance Number: (877) 276-7285**
**SECTION 2**
**PRODUCT/INGREDIENTS**
**INGREDIENTS**

INGREDIENTS	CAS#	CONCENTRATION
#2 Diesel	Mixture	100 %weight
Full Range Straight Run Middle Distillate	68814-87-9	0 - 100 %weight
Light Catalytic Cracked Distillate	64741-59-9	0 - 40 %weight
Benzene	71-43-2	0.01 - 0.65 %weight
Sulfur	7704-34-9	0 - 0.05 %weight

**NOTE:** H2S is a naturally occurring constituent in the petroleum stream and is not added separately to the product.

**SECTION 3**
**HAZARDS IDENTIFICATION**
**EMERGENCY OVERVIEW**
**Appearance & Odor:** Bright and clear liquid (Tax Exempt Diesels - pale red liquid). Oil-type odor.

**Health Hazards:** Hydrogen sulfide (H2S), an extremely flammable and toxic gas, may be present. Causes severe skin irritation. Toxic and harmful if inhaled. May be harmful or fatal if swallowed. Do not induce vomiting. May cause aspiration pneumonitis.

**Physical Hazards:** Combustible Liquid.

**NFPA Rating (Health, Fire, Reactivity):** 2, 2, 0

**Hazard Rating:** Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

**Inhalation:**

In applications where vapors (caused by high temperature) or mists (caused by mixing or spraying) are created, breathing may cause a mild burning sensation in the nose, throat and lungs. Toxic and harmful if inhaled. Hydrogen Sulfide (H2S) and other hazardous vapors may evolve and collect in the headspace of storage tanks or other enclosed vessels. Hydrogen Sulfide is an extremely flammable, toxic gas. Inhalation of vapors, mist or fumes (generated at high temperatures) may cause irritation to the nose, throat and respiratory tract.

**Eye Irritation:**

If irritation occurs, a temporary burning sensation, minor redness, swelling, and/or blurred vision may result.

**Skin Contact:**

Severely irritating to the skin causing pain, redness and swelling. Other adverse effects not expected from brief skin contact.

**Ingestion:**

This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Generally considered to have a low order of acute oral toxicity.

**Other Health Effects:**

Carcinogenic in animal tests. It is probable that the material causes cancer in laboratory animals.

Material may release hydrogen sulfide (H<sub>2</sub>S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H<sub>2</sub>S can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea, and pulmonary edema. The odor ("rotten egg") threshold is 0.02 ppm. Do not depend on sense of smell for warning; H<sub>2</sub>S rapidly deadens the sense of smell.

Refer to Section 11, Toxicological Information, for specific information on the following effects:

**Signs and Symptoms:**

Irritation as noted above. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin); in severe cases death may occur.

For additional health information, refer to section 11.

**SECTION 4****FIRST AID MEASURES****Inhalation:**

Vaporization of H<sub>2</sub>S that has been trapped in clothing can be dangerous to rescuers. Maintain respiratory protection to avoid contamination from victim to rescuer. Mechanical ventilation should be used to resuscitate the victim. DO NOT attempt to rescue victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin:**

Remove contaminated clothing. Flush with large amounts of water for at least 15 minutes and follow by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye:**

Flush eyes with plenty of water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling occur, transport to nearest medical facility for additional treatment.

**Ingestion:**

DO NOT take internally. In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Note to Physician:**

If more than 2.0ml/kg body weight has been ingested and vomiting has not occurred, emesis should be induced with

supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

## SECTION 5 FIRE FIGHTING MEASURES

**Flash Point [Method]:** >125 °F/>51.67 °C [ Closed Cup]

**Autoignition Temperature:** 500 °F/260 °C

**Flammability in Air:** 0.5 - 4.4 %volume

### Extinguishing Media:

Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use a direct stream of water.

### Fire Fighting Instructions:

**CAUTION! COMBUSTIBLE.** Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool surrounding equipment, fire-exposed containers and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water (500 gallons water per minute flame impingement exposure) to prevent weakening of container structure.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Protective Measures:

**CAUTION! COMBUSTIBLE.** Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

### Spill Management:

Shut off source of leak if safe to do so. Dike and contain spill.

**FOR LARGE SPILLS:** Remove with vacuum truck or pump to storage/salvage vessels.

**FOR SMALL SPILLS:** Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

### Reporting:

**CERCLA:** Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).

**CWA:** This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

## SECTION 7 HANDLING AND STORAGE

### Precautionary Measures:

**CAUTION! COMBUSTIBLE.** Do not breathe material. Keep container closed. Use only with adequate ventilation. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Material may release hydrogen sulfide (H<sub>2</sub>S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H<sub>2</sub>S may collect in the headspace of the container.

**Handling:**

Surfaces that are sufficiently hot may ignite liquid material.

**Storage:**

Keep liquid and vapor away from heat, sparks and flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors have dissipated. Use explosion-proof ventilation indoors and in laboratory settings.

**Container Warnings:**

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical	Limit	TWA	STEL	Ceiling	Notation
Benzene	ACGIH TLV	0.5 ppmv	2.5 ppmv		Skin
Benzene	OSHA PEL	1 ppmv	5 ppmv		
Diesel Fuel, as total hydrocarbons	ACGIH TLV	100 mg/m <sup>3</sup>			

Decomposition Product	Limit	TWA	STEL	Ceiling	Notation
Carbon dioxide	ACGIH - TLV	5000 ppmm	30000 ppmm		
Carbon dioxide	OSHA - PEL		30000 ppmm		
Carbon dioxide	OSHA - PEL <sub>IS</sub>	10000 ppmm			
Carbon monoxide	OSHA - PEL	35 ppmv		200 ppmv	

Decomposition Product	Method	Condition
Carbon dioxide	Combustion	
Carbon monoxide	Combustion	

**Exposure Controls**

Adequate explosion-proof ventilation to control airborne concentrations.

**Personal Protection**

Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

**Eye Protection:**

Chemical Goggles - If liquid contact is likely., or Safety glasses with side shields

**Skin Protection:**

Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential

exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by Neoprene, or Nitrile Rubber

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include:

Supplied-Air Respirator. Air-Purifying Respirator for Organic Vapors. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance & Odor:** Bright and clear liquid (Tax Exempt Diesels - pale red liquid). Oil-type odor.  
**Substance Chemical Family:** Petroleum Hydrocarbon, Fuel Oil

Auto Ignition Temperature	500 °F	Flammability in Air	0.5 - 4.4 %volume
Flash Point	> 125 °F [Closed Cup]	Specific Gravity	0.85 Typical
Stability	Stable	Vapor Pressure	0.02 mmHg Typical [Calculated]
Viscosity	1.9 - 4.1 cSt @ 40 °C		

### SECTION 10 REACTIVITY AND STABILITY

#### Stability:

Material is stable under normal conditions.

#### Conditions to Avoid:

Avoid heat and open flames.

#### Materials to Avoid:

Avoid contact with strong oxidizing agents.

#### Hazardous Decomposition Products:

Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Aldehydes, Carbon Monoxide, Carbon Dioxide, Ketones and other unidentified organic compounds may be formed upon combustion.

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Acute Toxicity

TEST	Result	OSHA Classification	Material Tested
Dermal LD50	> 5 ml/kg(Rabbit)	Non-Toxic	Based on similar material(s)
Eye Irritation	Non-Irritating [Rabbit]	Non-Irritating	Based on similar material(s)
Oral LD50	9 ml/kg(Rat)	Non-Toxic	Based on similar material(s)
Skin Irritation	Extremely irritating [Rabbit]	Irritating	Based on similar material(s)

#### Carcinogenicity Classification

Chemical Name	NTP	IARC	ACGIH	OSHA
#2 Diesel	No	No	No	No
Benzene	Yes	Carcinogen (1)	A1	Yes
Light Catalytic Cracked Distillate	No	Possible Carcinogen (2B)	No	No

<b>Carcinogenicity</b>	Related materials have caused the development of skin tumors in lifetime mouse skin painting studies. However, these tumors have a long latency period and may be associated with the repeated severe irritation caused by the test materials. Prolonged and repeated exposure to high concentrations (10s to 100s ppm) of benzene may cause serious injury to blood-forming organs and is associated with anemia (depletion of blood cells) and is linked to the later development of acute myelogenous leukemia (AML).
<b>Genotoxicity</b>	A closely related component (Hydrodesulfurized Middle Distillate) did not cause detectable mutations in two different in vivo (live animal) studies. Some evidence of genotoxicity was seen in separate in vitro (test tube) studies, usually in cases where the test material was metabolically activated.

#### SECTION 12 ECOLOGICAL INFORMATION

##### Environmental Impact Summary:

There is no ecological data available for this product.

#### SECTION 13 DISPOSAL CONSIDERATIONS

##### RCRA Information:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

#### SECTION 14 TRANSPORT INFORMATION

##### US Department of Transportation Classification

Proper Shipping Name: Diesel Fuel  
 Identification Number: NA1993

**Hazard Class/Division:** Combustible Liquid  
**Packing Group:** III

**Hazardous Substance/Material RQ:** Benzene / 1546.2005 lbs

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**Emergency Response Guide #128**

**International Air Transport Association**

**Hazard Class/Division:** 3 (Flammable Liquid)  
**Identification Number:** UN1202  
**Packing Group:** III  
**Proper Shipping Name:** Diesel Fuel

**International Maritime Organization Classification**

**Hazard Class/Division:** 3 (Flammable Liquid)  
**Identification Number:** UN1202  
**Packing Group:** III  
**Proper Shipping Name:** Diesel Fuel

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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<b>Federal Regulatory Status</b>
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**OSHA Classification:**

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Ozone Depleting Substances (40 CFR 82 Clean Air Act):**

This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

**Superfund Amendment & Reauthorization Act (SARA) Title III:**

**SARA Extremely Hazardous Substances (302/304):**

Hydrogen sulfide RQ 100 lbs Reportable Spill => 711012.800477 lbs  
or 100334.13 gal

**SARA Hazard Categories (311/312):**

Immediate Health	Delayed Health	Fire	Pressure	Reactivity
YES	YES	YES	NO	NO

**SARA Toxic Release Inventory (TRI) (313):**

Benzene

**Toxic Substances Control Act (TSCA) Status:**

This material is listed on the EPA/TSCA Inventory of Chemical Substances.

**Other Chemical Inventories:**

Australian AICS, Canadian DSL, European EINECS, Korean Inventory,

<b>State Regulation</b>
-------------------------

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65).**

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

**WARNING:** This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

**New Jersey Right-To-Know Chemical List:**

Benzene (71-43-2)	0.01 - 0.65 %weight	Carcinogen
Benzene (71-43-2)	0.01 - 0.65 %weight	Mutagen
Light Cat Cracked Distillate	0 - 40 %weight	Mutagen

**Pennsylvania Right-To-Know Chemical List:**

Benzene (71-43-2)	0.01 - 0.65 %weight	Spec Haz Sub/Env Hazardous
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**SECTION 16****OTHER INFORMATION****Revision#:** 3**Review Date:** 04/29/2003**Revision Date:** 04/29/2003

**Revisions since last change (discussion):** This Material Safety Data Sheet (MSDS) has been newly reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998). We encourage you to take the opportunity to read the MSDS and review the information contained therein.

**SECTION 17****LABEL INFORMATION**

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

**PRODUCT CODE(S):** 01468**GN LS Diesel 2 Dyed****WARNING!****COMBUSTIBLE LIQUID! MAY BE FATAL IF INHALED. CAUSES SEVERE SKIN IRRITATION. ASPIRATION**

**HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS BENZENE WHICH IS A CANCER HAZARD - LINKED TO DEVELOPMENT OF ACUTE MYELOGENOUS LEUKEMIA.**

Refer to Section 11, Toxicological Information, for specific information on the following effects:

**Precautionary Measures:**

Avoid heat and open flames. Hydrogen Sulfide and other hazardous vapors may evolve and collect in the headspace of storage tanks or other enclosed vessels. Hydrogen Sulfide is an extremely flammable, toxic gas. Respiratory protection should be worn when venting tanks. Avoid breathing of vapors, fumes, or mist. Do not take internally. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Wash thoroughly after handling.

**FIRST AID**

**Inhalation:** DO NOT attempt to rescue victim unless proper respiratory protection is worn. Vaporization of H<sub>2</sub>S that has been trapped in clothing can be dangerous to rescuers. Maintain respiratory protection to avoid contamination from victim to rescuer. Mechanical ventilation should be used to resuscitate the victim. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin Contact:** Remove contaminated clothing. Flush with large amounts of water for at least 15 minutes and follow by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye Contact:** Flush eyes with plenty of water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling occur, transport to nearest medical facility for additional treatment.

**Ingestion:** DO NOT take internally. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

**FIRE**

In case of fire, Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use a direct stream of water. Material will float and can be re-ignited on surface of water.

**SPILL OR LEAK**

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

CONTAINS: Full Range Straight Run Middle Distillate, 68814-87-9; Light Catalytic Cracked Distillate, 64741-59-9; Benzene, 71-43-2; Sulfur, 7704-34-9

NFPA Rating (Health, Fire, Reactivity): 2. 2. 0

**TRANSPORTATION**

US Department of Transportation Classification

Proper Shipping Name: Diesel Fuel  
Identification Number: NA1993

**Hazard Class/Division:** Combustible Liquid  
**Packing Group:** III

**Hazardous Substance/Material RQ:** Benzene / 1546.2005 lbs

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**Emergency Response Guide #128**

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65).**

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

**WARNING:** This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

**Name and Address**

Shell Oil Products US  
P. O. Box 4453  
Houston, TX 77210-4453

**ADMINISTRATIVE INFORMATION**

**MANUFACTURER ADDRESS:** Shell Oil Products US, P. O. Box 4453, Houston, TX. 77210-4453

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT : IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN AS A RESULT OF THAT DATA, IS THE PROPERTY OF SHELL OIL PRODUCTS US AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF SHELL OIL PRODUCTS US.

44156-11800-100R-04/20/2005



Safety Data Sheet:  
**Material Name: INSTANT KRAZY  
GLUE SINGLE-USE TUBES**  
**SDS ID: 00229532**  
Issue Date: 2015-01-20  
Revision: 1.11

**Other Sections**

[01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

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**\*\*\* Section 1 - PRODUCT AND COMPANY IDENTIFICATION \*\*\***

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**Material Name:**

INSTANT KRAZY GLUE SINGLE-USE TUBES

**Manufacturer Information**

Elmers Products, Inc  
Elmer's Products, Inc.  
460 Polaris Parkway  
Westerville, OH 43082

Emergency Phone Number:  
Poison Control Center  
1-888-516-2502

For additional product information, access our website at [www.elmers.com](http://www.elmers.com) or call 1-888-435-6377. To place an order, call 1-800-848-9400.

**Trade Names/Synonyms**

KG582, 10582; KG581; KG820

**Product Use**

adhesives

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**\*\*\* Section 2 - HAZARDS IDENTIFICATION \*\*\***

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**NFPA Ratings**

Health: 2 Fire: 2 Reactivity: 1  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Emergency Overview**

**Color:**  
colorless

**Physical Form:**  
liquid

**Odor:**  
irritating odor

**Major Health Hazards:**

harmful on contact with the skin or swallowed, skin irritation, eye irritation

**Physical Hazards:**

Flash back hazard. Combustible liquid and vapor. May polymerize. Containers may rupture or explode.

**Potential Health Effects****Inhalation****Short Term:**

irritation, allergic reactions, lung congestion

**Long Term:**

irritation

**Skin****Short Term:**

irritation, allergic reactions

**Long Term:**

irritation

**Eye Contact****Short Term:**

irritation, eye damage

**Long Term:**

irritation

**Ingestion****Short Term:**

no information on significant adverse effects

**Long Term:**

no information is available

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**\*\*\* Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS \*\*\***

CAS	Component Name	Percent
7085-85-0	ETHYL CYANOACRYLATE	>1

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**\*\*\* Section 4 - FIRST AID MEASURES \*\*\***

**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

**Skin**

If bonding occurs, immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention, if needed.

### **Eyes**

If bonding to tissues occurs, wash with large amounts of warm water. Cover both eyes with sterile, dry bandages. The eye will open without further action. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention.

### **Ingestion**

Wet lips with water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If a lump forms in the mouth, turn head to side. If burns occur, treat as thermal burns. Get medical attention.

### **Note to Physicians**

Mineral oil, vegetable oil, or petroleum jelly may help soften the bonding between skin surfaces. For skin contact, consider acetone or nitromethane.

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## **\*\*\* Section 5 - FIRE FIGHTING MEASURES \*\*\***

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See Section 9 for Flammability Properties

### **Flammable Properties**

Moderate fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.

### **Extinguishing Media**

carbon dioxide, regular dry chemical, regular foam, water

### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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## **\*\*\* Section 6 - ACCIDENTAL RELEASE MEASURES \*\*\***

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### **Occupational spill/release**

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

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## **\*\*\* Section 7 - HANDLING AND STORAGE \*\*\***

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### **Storage Procedures**

Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid contact with light. Avoid contact with water or moisture. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

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## **\*\*\* Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION \*\*\***

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### Component Exposure Limits

ETHYL CYANOACRYLATE	7085-85-0
ACGIH:	0.2 ppm TWA

### Component Analysis

#### Biological limit value

There are no biological limit values for any of this product's components.

#### Ventilation

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Protective Clothing

Wear appropriate chemical resistant clothing.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

#### Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100. Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100. Any powered, air-purifying respirator with a high-efficiency particulate filter. Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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### \* \* \* Section 9 - PHYSICAL AND CHEMICAL PROPERTIES \* \* \*

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<b>Appearance</b>	Not available	<b>Physical State</b>	Liquid
<b>Odor</b>	irritating odor	<b>Color</b>	colorless
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	<-20 °C	<b>Boiling Point</b>	62 °C at 5 mmHg
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	<1 (butyl acetate=1)
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	485 °C	<b>Flash Point</b>	83 °C CC
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	0.13 mmHg at 20 °C
<b>Vapor Density (air=1)</b>	>1	<b>Specific Gravity (water=1)</b>	1.05

<b>Water Solubility</b>	(negligible)	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Physical Form</b>	liquid
<b>OSHA Flammability Class</b>	IIIA		

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**\*\*\* Section 10 - STABILITY AND REACTIVITY \*\*\***

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### Chemical Stability

May polymerize. Avoid contact with water.

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

### Materials to Avoid

oxidizing materials, alcohols, amines, bases

### Decomposition Products

oxides of carbon

### Possibility of Hazardous Reactions

May polymerize. Avoid contact with water or moisture.

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**\*\*\* Section 11 - TOXICOLOGICAL INFORMATION \*\*\***

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### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

### RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

ETHYL CYANOACRYLATE	7085-85-0
Inhalation:	21110 mg/m <sup>3</sup> /1 hour Inhalation Rat LC50
Oral:	>5000 mg/kg Oral Rat LD50; >5 mL/kg Oral Rat LD50
Skin:	>2000 mg/kg Skin Rabbit LD50

### Acute Toxicity Level

ETHYL CYANOACRYLATE (7085-85-0)

Toxic:

dermal absorption, ingestion

### Component Carcinogenicity

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

### RTECS Irritation

The components of this material have been reviewed, and RTECS publishes the following endpoints:

ETHYL CYANOACRYLATE (7085-85-0)

0.1 mL Eyes Rabbit ; 500 uL/24 hour Skin Rabbit mild; 0.5 gm Skin Rabbit mild; 10 percent Skin Woman

### Local Effects

ETHYL CYANOACRYLATE (7085-85-0)

**Irritant:**

skin, eye

**Medical Conditions Aggravated by Exposure**

eye disorders, respiratory disorders, skin disorders and allergies,

**\*\*\* Section 12 - ECOLOGICAL INFORMATION \*\*\***

**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

**\*\*\* Section 13 - DISPOSAL CONSIDERATIONS \*\*\***

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

**\*\*\* Section 14 - TRANSPORT INFORMATION \*\*\***

**US DOT Information:**

No Classification assigned.

**TDG Information:**

No Classification assigned.

**\*\*\* Section 15 - REGULATORY INFORMATION \*\*\***

**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health:** Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactivity:** No

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
ETHYL CYANOACRYLATE	7085-85-0	No	No	No	Yes	No

**Not listed under California Proposition 65**

**Canadian WHMIS Ingredient Disclosure List (IDL)**

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

**WHMIS Classification**

**Component Analysis - Inventory**

Component	CAS#	US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
ETHYL CYANOACRYLATE	7085-85-0	Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

**Canadian Inventory**

All components of this product are listed on the DSL.

**U.S. Inventory (TSCA)**

All the components of this substance are listed on or are exempt from the inventory.

**\*\*\* Section 16 - OTHER INFORMATION \*\*\*****Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

**Other Information**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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# MATERIAL SAFETY DATA SHEET

**Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200**

Date of Prep: 3/20/09

## SECTION 1

SUNNYSIDE CORPORATION  
225 CARPENTER AVENUE  
WHEELING, ILLINOIS 60090  
EMERGENCY TELEPHONE

(847) 541-5700  
(800) 424-9300

FOR INFORMATION:

(847) 541-5700

- SUNNYSIDE CORPORATION  
- CHEM TREC

Product Class: Ketone  
Trade Name: ACETONE

Manufacturer's Code:  
NPCA HMIS:

840  
Health: 1  
Flammability: 3  
Reactivity: 0

Product Appearance and Odor: Clear, water-white liquid; typical, pungent odor.

## SECTION 2 -- HAZARDOUS INGREDIENTS

### OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS #	PERCENT	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)	VAPOR PRESSURE
Acetone	67-64-1	100%	500 PPM	750 PPM	750 PPM	1000 PPM	213 MM Hg @ 75° F

## SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES

INHALATION:	Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. If breathing is difficult, qualified medical personnel may administer oxygen and continue to monitor. Keep at rest. Get medical attention immediately.
EYE CONTACT:	Flush eyes immediately with water for at least 15 minutes. Get prompt medical attention.
SKIN CONTACT:	Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse. Get medical attention if skin irritation develops or persists.
INGESTION:	If swallowed, do not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range:	133° (F) (I.B.P.)	Vapor Density:	Heavier than air
Evaporation Rate:	Slower than ether	% Volatile By Volume:	100%
Weight Per Gallon:	6.60 Lbs.		
Solubility in Water:	Complete		

## SECTION 5 -- FIRE AND EXPLOSION DATA

Flammability Classification:	Flammable Liquid - Class IB.
Flash Point:	0° (F) (Tag, Closed Cup).
Autoignition Temperature:	869° (F)
Lower Explosive Limit:	2.5% @ 77° (F)
Extinguishing Media:	Either allow fire to burn under controlled conditions or extinguish with alcohol resistant foam and dry chemical. Try to cover liquid spills with foam.
Unusual Fire and Explosion Hazards:	Extremely flammable. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.
Special Fire Fighting Procedures:	Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

**SECTION 6 -- HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE: EFFECTS OF OVEREXPOSURE Inhalation:	500 PPM (ACGIH-Time weighted average). Vapors or mist may cause irritation of the nose and throat. Inhalation may cause dizziness, drowsiness, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.
Skin Contact:	Prolonged or repeated skin contact may cause irritation, discomfort and dermatitis.
Eye Contact:	Severely irritating and may injure cornea if not removed promptly. High vapor concentrations are also irritating.
Ingestion:	Product may be harmful or fatal if swallowed. Material is a pulmonary aspiration hazard. Material can enter lungs and cause damage. Ingestion of this product may cause central nervous system effects, which may include dizziness, loss of balance and coordination, unconsciousness, coma and even death.
Carcinogenicity:	Acetone is not listed by the NTP, IARC, or OSHA.

**SECTION 7 -- REACTIVITY DATA**

Stability:	Stable
Conditions to Avoid:	Heat, sparks and flame.
Incompatibility (Materials to Avoid):	Caustics, amines, alkanolamines, aldehydes, ammonia, strong oxidizing agents, and chlorinated compounds.
Hazardous Decomposition Products:	Thermal decomposition may yield carbon monoxide, carbon dioxide, aldehydes and ketones.
Hazardous Polymerization:	Will not occur.

**SECTION 8 -- SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapors or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches and bodies of water. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.

Waste disposal method: Incinerate under safe conditions; dispose of in accordance with local, state and federal regulations.

**SECTION 9 -- SAFE HANDLING AND USE INFORMATION**

Respiratory Protection:	Where concentrations in air may exceed occupational exposure limits, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.
Ventilation:	Exposure levels should be maintained below applicable exposure limits - see Section 2. This product should not be used in confined spaces, or in a manner that will allow accumulation of high vapor concentrations. However, for controlled industrial uses when this product is used in confined spaces, heated above ambient temperatures or agitated, the use of explosion proof ventilation equipment is necessary.
Protective Gloves:	Chemical resistant gloves (Neoprene or Natural Rubber).
Eye Protection:	Chemical safety goggles and a face shield.
Other Protective Equipment:	Impervious clothing or boots where needed, eyewash facility and a safety shower.

**SECTION 10 -- SPECIAL PRECAUTIONS**

Dept. of Labor Storage Category:	Flammable Liquid-Class IB.
Hygienic Practices:	Keep away from heat, sparks and flame. Keep containers closed when not in use. Avoid eye contact. Avoid prolonged or repeated contact with skin. Wash skin with soap and water after contact.
Additional Precautions:	Ground containers when transferring liquid to prevent static accumulation and discharge. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lighting, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).
Empty Container Warning:	"Empty" containers retain residue (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 or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to supplier or disposed of in an environmentally safe manner and in accordance with governmental regulations.

## SECTION 11 -- ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	APPROXIMATE % BY WEIGHT
NONE	NONE	NONE

SARA Title III Hazard Categories: Immediate (Acute) Health, Delayed (Chronic) Health, Fire

Common Names: 2-Propanone, Dimethylketone

California Proposition 65: This product contains trace amounts of Benzene, a chemical known to the State of California to cause cancer, and Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

TRANSPORTATION (U.S. D.O.T. land transportation in packages of 119 gallons or less)

U.S. D.O.T. Proper Shipping Name: Acetone

U.S. D.O.T. I.D Number: UN1090

U.S. D.O.T. Hazard Class: 3

U.S. D.O.T. Packing Group: II

U.S. D.O.T. Hazardous Substance: Acetone, RQ 5000 lbs  
Refer to 49 CFR for additional information. Exceptions or exemptions may exist for smaller quantities.



## 4. FIRST AID MEASURES

Eyes:	Immediately flush eyes gently with plenty of water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.
Skin Contact:	Wash the contaminated skin with soap and water. Washclothing before reuse. Seek medical attention if symptoms persist. Seek medical attention if symptoms persist.
Ingestion:	Contact a physician, medical facility, or poison control center immediately. Aspiration into the lungs can cause serious damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not induce vomiting.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Continue your efforts until help arrives or the victim starts to breathe on his own. Do not leave victim alone.

### NOTES TO PHYSICIAN:

Aspiration during swallowing or vomiting may severely damage the lungs. This material is an aspiration hazard. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin; lung (for example, asthma-like conditions); liver; kidney; blood forming system;

## 5. FIRE FIGHTING MEASURES

Fire and/or Explosion Hazards:	This product contains a component(s) that is considered a flammable liquid, which has vapors that are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, or other flames and ignition sources at locations distant from the material's handling point.
Fire Fighting Instructions:	Use CO <sub>2</sub> , foam or dry chemical. Water is generally not effective and may spread fire; however, water spray may be used from a safe distance to cool closed containers and protect surrounding area.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

If runoff occurs, notify authorities as required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Avoid run-off into storm sewers and ditches which may lead to natural waterways. Avoid breathing vapors. Wear appropriate personal protective equipment (PPE). Stop or reduce discharge if it can be done safely. Ventilate contaminated area.

## 7. HANDLING AND STORAGE

Handling:	Use with adequate ventilation. If ventilation is not sufficient, wear proper respiratory equipment. Do not store containers in excessive heat or direct sunlight. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor. Protect container against physical damage. Wash hands thoroughly after handling.
Storage:	Keep container tightly closed when not in use. Empty container may contain residues which are hazardous. Store in a cool dry place. Normal precautions common to safe manufacturing practice should be followed in handling and storage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Ventilation should be adequate to prevent exposures above the limits indicated below in this section of the SDS (from known, suspected or apparent adverse effects). Local exhaust should be used in areas where exposure limits may be exceeded.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material. Have an eye wash station available.
Skin Protection:	The use of chemically resistant gloves is recommended if there is any possibility of prolonged or repeated liquid contact with skin.
Respiratory Protection:	A supplied air respirator should be used if ventilation is not sufficient to maintain exposure limits. If the possibility exists that aerosols or mists may be inhaled while handling or processing this material, the use of a NIOSH/MSHA approved dust, fume, and mist respirator designed as respiratory protection against dust, fumes, and mist of materials having an exposure limit of less than 0.05 mg/m <sup>3</sup> is recommended.

<u>COMPONENT</u>	<u>CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Distillates (petroleum), hydrotreated light	64742-47-8	TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours	Not established	Not established
2-propanone	67-64-1	500 ppm TWA	Not established	Not established
Methylal	109-87-5	Not established	1000 ppm; 3100 mg/m <sup>3</sup> 8h TWA	Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Bulk trigger bottle	Lower Flammability Limit (%):	Not applicable
Appearance:	Clear Colorless	Upper Flammability Limit (%):	Not applicable
Odor:	Citrus	Vapor Pressure (PSIG @ 70°F):	No data available
Odor Threshold:	Mild	Vapor Density [air = 1]:	> 1
pH:	Not applicable	Relative Density (H <sub>2</sub> O=1):	0.8
Melting/Freezing Point (°F):	No data available	Solubility in Water:	Not determined
Boiling Point (°F):	No data available	Partial Coefficient: n-octanol/water:	No data available
Flash Point (°F PMCC):	122.0	Autoignition Temperature (°F):	Not applicable
Evaporation Rate:	Not determined	Decomposition Temperature (°F):	No data available
Flammability (solid, gas):	No data available	Viscosity, dynamic (cSt):	No data available
Percent VOCs (%):	< 3		

## 10. STABILITY AND REACTION

Chemical Stability: Stable.  
Conditions to Avoid: Oxidizers. Avoid contact with: Acids. Strong oxidizing agents.  
Decomposition Products: Burning can produce the following combustion products: Carbon dioxide and carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

Reproductive & Developmental Toxicity: No data available.  
IARC Carcinogen Designation: No data available

Ingredient	CAS #	Toxicological Data
2-propanone	67-64-1	DERMAL LD50 GUINEA PIG 9400 UL/KG ORAL LD50 Mouse 3 GM/KG INHALATION LC50 Rat 50100 MG/M3

## 12. ECOLOGICAL INFORMATION

Ecological Toxicity: No data available  
Mobility: No data available  
Degradability: No data available.

Ingredient	CAS #	Toxicological Data
2-propanone	67-64-1	Aquatic LC50 (48h) Rainbow Trout = 6100 mg/L 48HR EC50 Daphnia = 7630 mg/L No data available
Methylal	109-87-5	Aquatic LC50 (96h) Fish >= 1000 mg/L 48HR EC50 Daphnia >= 1200 mg/L No data available

## 13. DISPOSAL CONSIDERATIONS

Disposal : Dispose according to Federal, State and local regulations.

## 14. TRANSPORTATION INFORMATION

Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
DOT	UN1993	Flammable Liquids, n.o.s (contains acetone)†	3	III
IATA	ID8000	Consumer Commodity†	9	Not applicable
IMDG	UN1993	Flammable Liquids, n.o.s (contains acetone)†	3	III

† "Limited Quantities" may be applicable for this transportation mode.

## 15. REGULATORY INFORMATION

Warning: This product contains the following chemicals that are subject to reporting requirements for the following regulatory bodies listed below:

COMPONENT	CAS #	% BY WEIGHT	Regulatory Body
No components listed in this section.			SARA Section 313

### Toxic Substances Control Act

All components of this product are listed on the TSCA inventory.

### California Prop 65

This product contains no California Proposition 65 ingredients that cause cancer, birth defects or other reproductive harm.

## 16. OTHER INFORMATION

Other Information : SDS Prepared by L. Dean Swartz, SDS Coordinator

Version Date: 02/26/18

This information contained in this SDS is believed to be accurate as of the version date, but is not warranted to be. Since the use of this information and the conditions of use of this product are not within the control of Stoner Inc, it is the user's obligation to determine the conditions of safe use.

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according to Hazard Communication Standard; 29 CFR 1910.1200



**PLEDGE® LEMON POLISH**

Version 1.8

Print Date 11/29/2017

Revision Date 10/25/2017

SDS Number 350000032815

GEN\_SOF Number 58820

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : PLEDGE® LEMON POLISH

**Recommended use** : Furniture Polish/Cleaner

**Restrictions on use** : Use only as directed on label

**Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

**Telephone** : +1-800-558-5252

**Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour International Emergency Phone: (703)527-3887  
24 Hour Transport Emergency Phone: (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

Hazard classification	Hazard category	Hazards identification
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

Gas cylinder

**Signal word**

Warning

**Hazard statements**

Contains gas under pressure; may explode if heated.

**Precautionary statements**

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Protect from sunlight. Store in a well-ventilated place.

**Other hazards** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	10.00 - 30.00

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

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

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

Eyes : May irritate eyes.

Skin effect : No adverse effects expected when used as directed.

Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

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Ingestion : No adverse effects expected when used as directed.

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

See Description of first aid measures unless otherwise stated.

**5. FIREFIGHTING MEASURES**

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards during firefighting** : Aerosol Product - Containers may rocket or explode in heat of fire.

**Further information** : Fight fire from maximum distance or protected area. Although this product has a flash point below 200 Deg F, it is an aqueous solution containing an alcohol and does not sustain combustion. Cool and use caution when approaching or handling fire-exposed containers. Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Remove all sources of ignition.  
Wash thoroughly after handling.

**Environmental precautions** : Outside of normal use, avoid release to the environment.

**Methods and materials for containment and cleaning up** : Sweep up and shovel into suitable containers for disposal.  
Clean residue from spill site.

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### 7. HANDLING AND STORAGE

#### Handling

**Precautions for safe handling** : Avoid contact with skin, eyes and clothing.  
For personal protection see section 8.  
KEEP OUT OF REACH OF CHILDREN AND PETS.

**Advice on protection against fire and explosion** : Normal measures for preventive fire protection.

#### Storage

**Requirements for storage areas and containers** : Protect from sunlight.  
Store in a well-ventilated place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

#### Personal protective equipment

**Respiratory protection** : No special requirements.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : aerosol

**Color** : white

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<b>Odour</b>	: Citrus
<b>Odour Threshold</b>	: Test not applicable for this product type
<b>pH</b>	: 7 at (20 °C) (not an aqueous solution)
<b>Melting point/freezing point</b>	: Test not applicable for this product type
<b>Initial boiling point and boiling range</b>	: 100 °C
<b>Flash point</b>	: -1 °C 30.2 °F Method: Tag Closed Cup (TCC) liquid
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Does not sustain combustion.
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Test not applicable for this product type
<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 0.95 g/cm <sup>3</sup> at 20 °C
<b>Solubility(ies)</b>	: immiscible

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<b>Partition coefficient: n-octanol/water</b>	:	Test not applicable for this product type	:
<b>Auto-ignition temperature</b>	:	The substance or mixture is not classified as self heating.	:
<b>Decomposition temperature</b>	:		:
<b>Viscosity, dynamic</b>	:	Test not applicable for this product type	:
<b>Viscosity, kinematic</b>	:	Test not applicable for this product type	:
<b>Oxidizing properties</b>	:	Test not applicable for this product type	:
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	:	11.2 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	:
<b>Other information</b>	:	None identified	:

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.	:
<b>Chemical stability</b>	:	Stable under recommended storage conditions.	:
<b>Possibility of hazardous reactions</b>	:	Stable under recommended storage conditions.	:
<b>Conditions to avoid</b>	:	Direct sources of heat.	:
<b>Incompatible materials</b>	:	Strong oxidizing agents Do not mix with bleach or any other household cleaners. Strong bases	:

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**Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity** : LD50 > 5000 mg/kg

**Acute inhalation toxicity** : LC50 > 10 mg/L

**Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single	No classification proposed	-

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exposure		
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

**12. ECOLOGICAL INFORMATION**

**Product** : The product itself has not been tested.

**Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

**Toxicity to fish**

Components	End point	Species	Value	Exposure time
Hydrocarbons, C7-C9, isoalkanes	No data available			

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Hydrocarbons, C7-C9, isoalkanes	EC50	Daphnia magna (Water flea)	2.4 mg/l	48 h

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
Hydrocarbons, C7-C9, isoalkanes	EC50	Pseudokirchneriella subcapitata	29 mg/l	96 h

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**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C7-C9, isoalkanes	22 %	28 d	Not readily biodegradable.

**Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Hydrocarbons, C7-C9, isoalkanes	No data available	No data available

**Mobility**

Component	End point	Value
Hydrocarbons, C7-C9, isoalkanes	log Koc	> 1.783 - < 2.36

**PBT and vPvB assessment**

Component	Results
Hydrocarbons, C7-C9, isoalkanes	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

**13. DISPOSAL CONSIDERATIONS**

Consumer may discard empty container in trash, or recycle where facilities exist.

**14. TRANSPORT INFORMATION**

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

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	Land transport	Sea transport	Air transport
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	UN 1950 AEROSOLS, non-flammable, 2.2	UN 1950 AEROSOLS, non-flammable, 2.2	UN 1950 AEROSOLS, non-flammable, 2.2
<b>Transport hazard class(es)</b>	2.2	2	2.2
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	-	-
<b>Special precautions for user</b>	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

**15. REGULATORY INFORMATION**

**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**Notification status** : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

**California Prop. 65** : This product is not subject to the reporting requirements under California's Proposition 65.

**State Right To Know**

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No components are subject to the Massachusetts Right to Know Act.		
No components are subject to the Minnesota "Right To Know" Act		
No components are subject to the New Jersey "Right To Know" Act		
Pennsylvania RTKL	Water	7732-18-5
	Hydrocarbons, C7-C9, isoalkanes	64741-66-8
	Proprietary Lubricant Blend	

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	0
<b>Flammability</b>	2
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	0
<b>Fire</b>	3
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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## Material Safety Data Sheet

### Polyisocyanurate Foam Insulation

MSDS #: 3012

#### 1. Product and company identification

**Hazard Label** CAUTION

Johns Manville  
Roofing Systems  
717 17th Street  
Denver, CO 80202 US

Telephone: 303-978-2000 8:00AM-5:00PM M-F  
Internet: <http://www.jm.com>  
Email: [productsafety@jm.com](mailto:productsafety@jm.com)  
Emergency phone: 1-800-424-9300 (Chemtrec, in English)

**Trade name:** DuraFoam®, ENRGY 3®, ENRGY 3® Foil Face, ENRGY 3® Plus, ENRGY 3® 25 PSI, ENRGY 3® AGF, Tapered ENRGY 3®, Tapered ENRGY 3® Plus, Fesco® Foam, Tapered Fesco® Foam, Nailboard™, Vented Nailboard™, ENRGY 3® 25 psi 8924, ENRGY 3® 8924, ENRGY 3® 25 PSI Foil Face, DiamondBack® Pre-Cut Cricket, DiamondBack® Pre-Cut Miter, ENRGY 3® FR, Tapered ENRGY 3® FR, ENRGY 3® 25 PSI FR, Tapered ENRGY 3® 25 PSI FR, ENRGY 3® CGF, ENRGY 3® 25 PSI CGF, Tapered ENRGY 3® 25 PSI, Tapered ENRGY 3® AGF, Tapered ENRGY 3® CGF, Tapered ENRGY 3® 25 PSI CGF, ENRGY 3® 25 PSI AGF, Tapered ENRGY 3® 25 PSI AGF

#### 2. Hazards identification

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview**

Keep away from heat, sparks and flame.

**Potential acute health effects**

**Inhalation:** May cause respiratory irritation.

**Ingestion:** Gastrointestinal irritation

**Skin:** May cause skin irritation.

**Eyes:** May cause eye irritation.

**Potential chronic health effects**

**Chronic effects:** Contains material that can cause target organ damage.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

**Fertility effects:** No known significant effects or critical hazards.

**Target organs:** Contains material which causes damage to the following organs: peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea

**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.

<b>3. Composition information on ingredients</b>
--

**Relevant ingredients**

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Polyisocyanurate Foam	-	>=5 - <=90
Wood Fiber Board	-	>=0 - <=90
DuraGlass® 8000 Series Mats	-	>=5 - <=15
Black Facer	-	>=10 - <=50
Foil Kraft Facing	-	>=0 - <=30
Aluminum Foil Facing	-	>=1 - <=20
Coated Glass Facer	-	>=0 - <=30

**Hazardous ingredients**

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Butane, 2-methyl-	78-78-4	>=5 - <10
Cyclopentane	287-92-3	>=5 - <10
Pentane	109-66-0	>=1 - <5

#### 4. First aid measures

**General information:**

No action shall be taken involving any personal risk or without suitable training. If used as directed, first aid measures are generally not necessary.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser. Get medical attention if symptoms occur.

**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 if symptoms occur.

**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 if symptoms occur.

**Notes to physician:** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No action shall be taken involving any personal risk or without suitable training.

#### 5. Fire-fighting measures

**Flammability of the product:** No specific fire or explosion hazard.

**Extinguishing media**

**Suitable:** Use an extinguishing agent suitable for the surrounding fire.

**Not suitable:** None known.

**Fire-fighting measures:** 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.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide

**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.

#### 6. Accidental release measures

**Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions:** Collect spillage.

**Methods for cleaning up**

**Small spill:** Vacuum or sweep up material and place in a designated, labeled waste container. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Take up mechanically.

**Large spill:** Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Take up mechanically.

**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. Do not ingest. If used and stored as directed, no special protective equipment is necessary.

**Storage:** Store in accordance with local regulations. Keep away from sources of ignition. Observe label precautions.

**Storage Stability:** The product is stable.

**8. Exposure controls/personal protection**

**Consult local authorities for acceptable exposure limits. Exposure limits**

**Butane, 2-methyl-:**

ACGIH TLV(1998-09-01) Notes: 1998 Adoption. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 600 ppm

**Cyclopentane:**

ACGIH TLV(1994-09-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 1,720 mg/m<sup>3</sup>, 600 ppm

NIOSH REL(1994-06-01) Time Weighted Average (TWA), 1,720 mg/m<sup>3</sup>, 600 ppm

OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 1,720 mg/m<sup>3</sup>, 600 ppm

**Pentane:**

NIOSH REL(1994-06-01) Time Weighted Average (TWA), 350 mg/m<sup>3</sup>, 120 ppm

NIOSH REL(1994-06-01) Threshold Limit Value - Ceiling (TLV-C), 1,800 mg/m<sup>3</sup>, 610 ppm

OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 1,800 mg/m<sup>3</sup>, 600 ppm

OSHA PEL 1989(1989-03-01) Short Term Exposure Limit (STEL), 2,250 mg/m<sup>3</sup>, 750 ppm

ACGIH TLV(1998-09-01) Notes: 1998 Adoption. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 600 ppm

As a member of NAIMA, JM subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations. For more information, see: <http://www.naima.org/insulation-knowledge-base/health-and-safety-aspects/product-stewardship-program-for-worker-protection.html>.

**Engineering measures:** No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**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.

#### **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.

**Eyes:** 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.

**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.

## **9. Physical and chemical properties**

**Physical state:** solid

**Flash point:** Not applicable.

**Color:** Yellow., Tan.

**Odor:** practically odorless

**Specific gravity:** 0.03

## 10. Stability and reactivity

**Hazardous reactions:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid:** No specific data.

**Substances to avoid:** No specific data.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Acute toxicity**

**Butane, 2-methyl-:** LC50 Inhalation Mouse: 150 mg/l, 2 h  
LC50 Inhalation Rat: 280 mg/l, 4 h

**Cyclopentane:** LD50 Oral Rat: 11,400 mg/kg  
LD50 Oral Mouse: 12,800 mg/kg

**Pentane:** LD50 Oral Rat: > 2,000 mg/kg  
LC50 Inhalation Rat: 364 mg/l, 4 h  
LD50 Other Mouse: 446 mg/kg

**Conclusion/Summary:** Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man., There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam., However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978)., In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19).

**Conclusion/Summary:** Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man., There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam., However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978)., In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19).

**Classification**

Product/ingredient	ACGIH	IARC	NIOSH	NTP	OSHA	

name						
------	--	--	--	--	--	--

Polyisocyanurate Foam: There is no evidence that dust from this material causes disease in man. There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam. However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m<sup>3</sup> of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978). In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19). **Assessment carcinogenicity:** No known significant effects or critical hazards.

**Assessment mutagenicity:** No known significant effects or critical hazards.

**Assessment teratogenicity:** No known significant effects or critical hazards.

**Assessment toxicity to reproduction:** No known significant effects or critical hazards.

**Assessment Development Effect:** No known significant effects or critical hazards.

## 12. Ecological information

**Environmental fate:** No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14. Transport information

These products are not classified as dangerous goods according to international transport regulations.

IATA & IMDG: Contact JM Product Stewardship for classification and label.

## 15. Regulatory information

### U.S. Federal regulations

**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed  
**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed  
 Formaldehyde

**Clean Air Act (CAA) 112 accidental release prevention:** The following components are listed:  
 Butane, 2-methyl- Pentane Formaldehyde

**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Listed Pentane Butane, 2-methyl-

**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** Butane, 2-methyl-: Fire hazard - flammable, combustible liquid, pyrophoric Cyclopentane: Fire hazard - flammable, combustible liquid, pyrophoric Pentane: Acu, Fire hazard - flammable, combustible liquid, pyrophoric: Del, Fire hazard - flammable, combustible liquid, pyrophoric

**SARA 311/312 Product Classification:** Delayed (chronic) health hazard.

**State regulations**

**Massachusetts Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**New Jersey Hazardous Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**Pennsylvania RTK Hazardous Substances:** The following components are listed: Pentane Cyclopentane Butane, 2-methyl-

**California Prop. 65**

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Formaldehyde	Yes.	No.	40 µg/day	No.

**Canada**

**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.**

**DSL:** Not determined.

**International regulations**

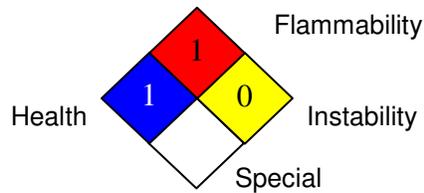
These products are considered articles under both U.S. and international products and as such, these products do not require registration or notification on the various country-specific inventories.

**16. Other information**

**Hazardous Material Information System (U.S.A.) :**

<b>Health</b>	*	1
<b>Flammability</b>		1
<b>Physical hazards</b>		0

**National Fire Protection Association (U.S.A.):**



**Date of issue** : 11/16/2012  
**Date of previous issue** : 04/09/2012  
**Version** : 1.11

Johns Manville  
 Roofing Systems  
 717 17th Street  
 Denver, CO 80202 US

**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.

**Section 1 - Chemical Product and Company Identification**

**Product Name** Polyisocyanurate Foam Insulations

**CAS#** None Assigned

**Generic Name** Insulation (Polyisocyanurate Foam)

**Formula** Polymer

**Chemical Name:** Proprietary

**Hazard Label** PI-01 or L2070

**Manufacturer Information**

Johns Manville Insulation Group  
 Building Insulation Division  
 P.O. Box 5108  
 Denver, CO 80127 USA

Telephone: 303-978-2000 8:00AM-5:00PM M-F  
 Internet Address: <http://www.jm.com>  
 Emergency: 800-424-9300 (Chemtrec, In English)

**Trade Names:**

AP Foil-Faced;  
 extRa;  
 IsoVent;

R-Panel;  
 VentBoard  
 CI Max

**Section 2 - Composition / Information on Ingredients**

CAS #	Component	Percent
Not Available	Polyisocyanurate foam	25-45
Not Available	Foil Facing	0-30*
Not Available	Foil Glass Mat Facing	0-30*
Not Available	Paper or Polymer Facing	0-30*
	Pentane	0-5**
287-92-3	Cyclopentane	0-5**
78-78-4	Isopentane	0-5**
65997-17-3	Continuous filament glass fibers	***

**Additional Component Information**

\* Facing is one or the other of these materials.

\*\*Pentane (blowing agent) concentration in product: all isomers ≤ 6% mass.

\*\*\* Reinforcement in paper or polymer facings.

**Section 3 - Hazards Identification**

**Emergency Overview**

APPEARANCE AND ODOR: Tan foam board. Facings include foil, glass mat reinforced foil facer, or reinforced paper or polymer sheets. No significant odor.

Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation and/or congestion--remove individual to fresh air.

Product is combustible. Burning products may produce thick black smoke.

**Potential Health Effects**

**Summary**

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness. Breathing large amounts of dust or fibers from this product may lead to chronic health effects as discussed in Section 11 of this material safety data sheet.

**Inhalation**

Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

**Skin**

Temporary irritation (itching) or redness may occur.

**Ingestion**

This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

**Eyes**

Temporary irritation (itching) or redness may occur.

**Primary Routes of Entry (Exposure)**

Inhalation (breathing dust), skin, and eye contact.

**Target Organs**

Upper respiratory passages, skin, and eyes.

**Medical Conditions Aggravated by Exposure**

Pre-existing chronic respiratory, skin, or eye diseases or conditions.

**Section 4 - First Aid Measures**

**First Aid: Inhalation**

Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

**First Aid: Skin**

Wash gently with soap and water to remove dust. Wash hands before eating or using the restroom.

**First Aid: Ingestion**

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

**First Aid: Eyes**

Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a medical professional.

**First Aid: Notes to Physician**

This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

**Section 5 - Fire Fighting Measures**

**Flash Point:** Not applicable

**Upper Flammable Limit (UFL):** Not applicable

**Auto Ignition:** Not determined

**Rate of Burning:** Not determined

**General Fire Hazards**

Product is combustible. Avoid direct contact with flame.

**Hazardous Combustion Products**

Product is combustible. Burning of this material will produce thick, black smoke.

**Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>), water, water fog, dry chemical.

**Fire Fighting Equipment/Instructions**

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

**Method Used:** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Flammability Classification:** Not determined

**Section 6 - Accidental Release Measures**

**Containment Procedures**

Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

**Clean-Up Procedures**

Avoid the generation of dusts during clean-up.

**Section 7 - Handling and Storage**

**Handling Procedures**

Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material.

**Storage Procedures**

Warehouse storage should be in accordance with package directions, if any. Material should be kept clean, dry, and protected from moisture. Eliminate all sources of ignition.

**Section 8 - Exposure Controls / Personal Protection****Exposure Guidelines****A: General Product Information**

No information available for the product.

**B: Component Exposure Limits****Cyclopentane (287-92-3)**

ACGIH: 600 ppm TWA

OSHA: 600 ppm TWA; 1720 mg/m<sup>3</sup> TWA

**Isopentane (78-78-4)**

ACGIH: 600 ppm TWA (listed under Pentane, all isomers)

**Continuous filament glass fibers (65997-17-3)**

ACGIH: 1 fiber/cm<sup>3</sup> TWA (respirable fibers, length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination); 5 mg/m<sup>3</sup> TWA (inhalable fraction)

**PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment: Eyes/Face**

Safety glasses with sideshields are recommended to keep dust out of the eyes.

**Personal Protective Equipment: Skin**

Leather or cotton gloves should be worn to prevent skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation caused by fiber glass.

**Personal Protective Equipment: Respiratory**

A NIOSH-certified respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits.

**Ventilation**

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

**Personal Protective Equipment: General**

Loose-fitting, long-sleeved clothing should be worn to protect skin from irritation. Work clothing should be washed separately from other clothes, and the washer should be rinsed thoroughly (run empty for a complete wash cycle). This will reduce the chances of dust being transferred to other clothing.

**Section 9 - Physical & Chemical Properties**

<b>Appearance:</b>	Tan foam board with various facings.	<b>Odor:</b>	No significant odor
<b>Physical State:</b>	Solid	<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Not determined
<b>Solubility (H<sub>2</sub>O):</b>	None	<b>Specific Gravity:</b>	0.03
<b>Freezing Point:</b>	Not applicable	<b>Evaporation Rate:</b>	Not applicable
<b>Viscosity:</b>	Not applicable	<b>Percent Volatile:</b>	Negligible
<b>VOC:</b>	Not applicable		

**Section 10 - Chemical Stability & Reactivity Information****Chemical Stability**

This is a stable material. This product is not reactive.

**Chemical Stability: Conditions to Avoid**

Keep away from heat, sparks, or open flame.

**Incompatibility**

Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide, and dimethyl formamide.

**Hazardous Decomposition**

The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the resin. These decomposition products may include carbon monoxide, carbon dioxide, carbon particles, and traces of hydrogen cyanide.

**Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Acute Toxicity****A: General Product Information**

Dust from this product is a mechanical irritant, which means that it may cause temporary irritation or scratchiness of the throat, and/or itching of the eyes and skin.

Isopentane, cyclopentane, and n-pentane may be released at very low concentrations (well below their lower flammability limits) from these products when they are cut or crushed. These pentanes are nontoxic at levels below their lower flammability limits.

**B: Component Analysis - LD50/LC50****Cyclopentane (287-92-3)**

Oral LD50 Mouse: 12800 mg/kg

**Isopentane (78-78-4)**

Inhalation LC50 Rat: 280000 mg/m3/4H

**Carcinogenicity****A: General Product Information**

The Occupational Safety and Health Administration (OSHA), National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), and American Conference of Governmental Industrial Hygienists (ACGIH) have not classified this product as a carcinogen.

**B: Component Carcinogenicity****Continuous filament glass fibers (65997-17-3)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Group 3 - Not Classifiable (IARC Monograph 81 [2002] (listed under Man-made mineral fibres), Monograph 43 [1988])

**Chronic Toxicity**

**Polyisocyanurate Foam:** There is no evidence that dust from this material causes disease in man. There are no known animal studies of the chronic health effects of breathing dust from polyisocyanurate foam. However, a subchronic inhalation study showed no adverse respiratory effects in rats as a result of breathing 9 mg/m3 of dust from a similar foam (polyurethane foam) for 3 months (Thyssen et al., 1978). In 1987, IARC designated polyurethane as Group 3, not classifiable as to carcinogenicity to humans (Monograph 19).

**Continuous Filament Glass Fiber:** No chronic health effects are known to be associated with exposure to continuous filament fiber glass. Long-term epidemiologic studies do not show any increases in respiratory cancer or other disease among employees who manufacture this product. In 1987, the International Agency for Research on Cancer (IARC) classified continuous filament fiber glass as a Group 3 substance, "not classifiable as to its carcinogenicity to humans." In 2001, IARC re-affirmed this designation. Because of the large diameter of continuous filament fibers, these fibers are not considered respirable.

**Section 12 - Ecological Information****Ecotoxicity****A: General Product Information**

No additional information available.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity****Cyclopentane (287-92-3)**

48 Hr EC50 Daphnia magna: 10.5 mg/L

**Isopentane (78-78-4)**

48 Hr EC50 Daphnia magna: 2.3 mg/L

**Section 13 - Disposal Considerations****US EPA Waste Number & Descriptions****A: General Product Information**

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

**B: Component Waste Numbers**

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

**Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Section 14 - Transportation Information**

**Shipping Name:** This product is not classified as a hazardous material for transport.

**Section 15 - Regulatory Information****US Federal Regulations****A: General Product Information**

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

**B: Component Analysis**

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**State Regulations****A: General Product Information**

Other state regulations may apply. Check individual state requirements.

**B: Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Cyclopentane	287-92-3	Yes	No	Yes	Yes	Yes	Yes
Isopentane	78-78-4	No	No	Yes	No	Yes	Yes
Continuous filament glass fibers	65997-17-3	No	No	No	Yes	No	No

**Other Regulatory Information****A: General Product Information**

No information available for the product.

**B: TSCA Status**

This product and its components are listed on the TSCA 8(b) inventory.

None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

**C: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
Cyclopentane	287-92-3	Yes	Yes	Yes
Isopentane	78-78-4	Yes	Yes	Yes
Continuous filament glass fibers	65997-17-3	Yes	Yes	Yes

**Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Cyclopentane	287-92-3	1 %

**Section 16 - Other Information****Other Information**

Prepared for:  
Johns Manville  
Building Insulation Division  
P.O. Box 5108  
Denver, CO 80217-5108

Prepared by:  
Johns Manville Technical Center  
P.O. Box 625005  
Littleton, CO USA 80162-5005

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

Date	MSDS #	Reason
08/01/00	2070-1.0000	New MSDS authoring system.
04/08/03	2070-1.0100	Section 1: Added blowing agents, HCFC or pentanes. All other sections updated for these components.
11/26/03	2070-1.0101	Section 16 division change RID to BID
02/10/04	2070-1.0102	Sect. 2, Dichlorofluoroethane no longer a component of these products.
07/15/05	2070-1.0103	Regulatory updates: Sections 8, 11, & 15
12/07/05	2070-1.0104	Regulatory update. Minor edits in Section 8 Exposure and Section 15 WHMIS.
01/15/07	2070-1.0105	Section 15 TSCA 12b info was edited and Pentane removed. This product is an article under TSCA. Pentane does not need to be reported under TSCA 12b per 40CFR §707.60(b).
12/28/11	2070-1.0106	MSDS Update.
08/10/12	2070-1.0206	Updated composition information and added trade name CI Max.
07/14/14	2070-1.0207	Updated composition by removal of Antimony Oxide.

This is the end of MSDS # 2070



# Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

## Section 1. Identification

**Product identifier**

**Product Name:** PRO SELECT PREMIUM BAR & CHAIN OIL

**Other names:** F-7410, Bar & Chain Oil

**Part/Product Number(s):** 188585, 188586

**UPC Number(s):** 733704540083, 733704540090

**Material Use:** Bar and chain lubricant

**Uses advised against:** Not for internal engine use.

**Manufacturer:** Omni Specialty Packaging, LLC  
10399 Hwy 1 South  
Shreveport, LA 71115  
1-318-524-1100

**Issuing date:** May 8, 2015

**Revision date:** April 10, 2018

**Revision number:** 003

**Company contact:** OMNI EHS Department: E-Mail: [sds@osp.cc](mailto:sds@osp.cc); Contact phone: 318-524-1100 (Monday-Friday, 8:00 AM – 4:00 PM, CST)

**In case of emergency:** CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7)  
CHEMTREC: Outside USA and Canada: +1 703-527-3887 (24/7)

## Section 2. Hazards Identification

**OSHA/HCS Status:** This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the Substance or Mixture:** Not classified

**GHS Label Elements**

**Hazard pictograms:** None

**Signal word:** None

**Hazard statement:** None

**Precautionary statements**

**General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

**Hazards not otherwise classified (HNOC):** Defatting to the skin.

## Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

**Substance/Mixture:** Mixture

<u>Components Name</u>	<u>CAS number</u>	<u>Weight %*</u>
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	Various	95 – 99
Bar & Chain Oil Additive Mixture	Proprietary	1-5

This product does not contain known hazardous materials at the ≥ 1% level or known carcinogens at the ≥ 0.1% level as defined by 29 CFR 1910.1200.

\* The exact percentage of composition has been withheld as a trade secret.

## Section 4. First Aid Measures

### Description of necessary first aid measures

- General Advice:** No specific first aid measures are required. Get medical attention if irritation develops and persists.
- Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops and persists.
- Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or allergic reaction develops and persists.
- Inhalation:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. If inhaled, remove to fresh air. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
- Ingestion:** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
- Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).

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

See Section 11 for more detailed information on health effects and symptoms.

#### **Most Important**

**Symptoms and Effects:** Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use conditions, no adverse effects to health are known.

**Eye contact:** Not expected to cause prolonged or significant eye irritation.

**Skin contact:** Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Inhalation:** Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficult breathing.

**Ingestion:** Not expected to be harmful if swallowed.

**Note to physician:** Treat symptomatically.

## Section 5. Fire-Fighting Measures

**Uniform Fire Code:** Class IIIB

**Flash Point:** >93.3°C (>200°F)

**Extinguishing Media**

**Suitable Media:** In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>) extinguisher or spray.

**Unsuitable Media:** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical:**

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in accordance with local regulations.

**Hazardous Combustion Products:** Combustion products may include the following: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide (CO), and Nitrogen oxides.

**Protection of 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. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **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. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

**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. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. 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). See Section 12 for ecological information.

**Methods and materials for containment and cleaning up**

**Small Spills:** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spills:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

## Section 7. Handling and Storage

### Precautions for safe handling

#### Protective measures:

Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. 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 in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). 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. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

#### Bulk material handling:

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.

## Section 8. Exposure Controls/Personal Protection

### Control parameters

#### Occupational Exposure Limits

Chemical name	ACGIH		OSHA		NIOSH	
	TLV	STEL	PEL	STEL	TWA	Ceiling
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	5 mg/m <sup>3</sup> (mist)	10 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)	–	–	–

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emergency shower and eyewash station.

#### 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.

#### Eye/Face Protection:

Wear safety glasses with side shields. A face shield may be necessary under some conditions.

#### Skin and Body Protection

#### Hand protection:

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor or Standard Operating Procedure (SOP) for special handling instructions.

#### Body protection:

No protective equipment is needed under normal use conditions. For non-routine tasks, personal protection equipment for the body should be selected

based on the task being performed and the risks involved.

**Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

**Respiratory protection:**

No respiratory protection is normally required. If user operation generates an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Section 9. Physical and Chemical Properties**

<u>Appearance</u>	<u>(Typical or Target)</u>
Physical State:	Liquid
Color:	Straw colored
Odor:	Petroleum like
Odor threshold:	Not available
pH:	Not applicable
Boiling Point:	Not available
Flash Point (Closed cup):	>93.3°C (>200°F) (Typical or Target)
Evaporation rate (Butyl acetate = 1):	Not available
Flammability (solid, gas):	Not applicable. Based on - Physical state
Flammable) Limit in Air	Not available
Vapor pressure:	Not available
Vapor density (Air = 1):	>1
Relative density:	0.90 - 0.92 g/l at 15°C (Typical or Target)
Solubility:	In soluble in water
Partition coefficient (n-Octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity – Kinematic (cSt (mm <sup>2</sup> /s)@ 40°C):	85 – 100
Viscosity – Dynamic (cSt (mm <sup>2</sup> /s) @ 100°C):	10 – 12
VOC %:	0 %

**Section 10. Stability and Reactivity**

<b>Reactivity:</b>	Not reactive under normal storage conditions
<b>Chemical stability:</b>	Stable under normal storage conditions
<b>Possibility of hazardous reactions:</b>	None under normal processing.
<b>Hazardous polymerization:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Heat, flames and sparks.
<b>Incompatible materials:</b>	Oxidizing agents and open flames.
<b>Hazardous decomposition products:</b>	May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion products.

**Section 11. Toxicological Information**

Information on toxicological effects

**Substance/Mixture**

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15- C50) Mixture - Typical	>2000 mg/Kg (rat)	>2000 mg/Kg (rabbit)	>2.18 mg/L (rat) 4h (mist)

**Aspiration hazard:** Not expected to be an aspiration hazard.

**Skin Corrosion/Irritation:** No known significant effects or critical hazards.

<b>Serious Eye Damage/Irritation:</b>	No known significant effects or critical hazards.
<b>Skin Sensitization:</b>	No known significant effects or critical hazards.
<b>Respiratory Sensitization:</b>	No known significant effects or critical hazards.
<b>Specific Target Organ Toxicity (Single Exposure) - STOT-SE:</b>	No known significant effects or critical hazards.
<b>Specific Target Organ Toxicity (Repeated Exposure) – STOT-RE:</b>	No known significant effects or critical hazards.
<b>Carcinogenicity:</b>	No known significant effects or critical hazards.
<b>Germ Cell Mutagenicity:</b>	No known significant effects or critical hazards.
<b>Reproductive Toxicity:</b>	No known significant effects or critical hazards.

### Information on Toxicity Effects of Compounds

#### Lubricant Base Mineral Oil (Petroleum)

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in this product meet the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

None of the oils in this product require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IRAC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

## Section 12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

**Mobility:** Base oil component – Low solubility and floats and is expected to migrate from water to land. Expected to partition to sediment and wastewater solids.

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

#### Persistence and degradation

**Biodegradation:** The material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

#### Bioaccumulative potential

**Bioaccumulation:** This product is not expected to bioaccumulate through food chain in the environment.

**Other adverse effects:** No known significant effects or critical hazards.

**Other ecological information:** Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## Section 13. Disposal Considerations

**Disposal recommendations based on material supplied.**

**Waste treatment methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

- Product waste:** Significant quantities of waste product residues should not be disposed of via the sanitary sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not feasible. Oil collection services are available for used oil recycling.
- Contaminated packaging:** Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard. Do not cut, puncture, or weld containers.
- Other information:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport Information**

**General information:** Petroleum lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA
Bar & Chain Oil	Not Regulated	Not Regulated	Not Regulated

**Special precautions for user:** Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Section 15. Regulatory Information**

United States Regulations

**United States Inventory (TSCA 8b):** All components are listed or exempted.

**SARA 302/304:** No products were found.

**SARA 311/312:** Immediate (Acute) Health Effects: No  
 Delayed (Chronic) Health Effects: No  
 Fire Hazard: No  
 Sudden Release of Pressure Hazard: No  
 Reactivity Hazard: No

**SARA 313:** The following components of this material are found on the EPCRA 313 list:  
 None

**Supplier notification:** This product does not contain any hazardous ingredients at or above regulated thresholds.

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

**CERCLA:** This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

**Massachusetts:** None of the components are at or above regulated thresholds.

**New Jersey:** Petroleum Oil (Motor Oil)

**Pennsylvania:** None of the components are at or above regulated thresholds.

**California Proposition 65:** WARNING: This product contains a chemical known to the State of California to cause cancer.  
 None

**Canada**

**WHMIS Hazard Class:** Not classified. This Product Is Not Controlled Under WHMIS (Canada)

**International Chemical Inventories:**

All components comply with the following chemical inventory requirements: DSL (Canada)

## Section 16. Other Information

<b>NFPA Rating:</b>	<b>Health Hazard – 1</b>	<b>Flammability – 1</b>	<b>Instability/Reactivity – 0</b>
<b>HMIS Rating:</b>	<b>Health Hazard – 1</b>	<b>Flammability – 1</b>	<b>Physical Hazards – 0</b>

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \* - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. 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 or Hazardous Material Identification System).

**Key to abbreviations:**

OSHA = Occupational Safety and Health Administration

ACGIH= American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service Registry Number

cSt = Centistroke (mm<sup>2</sup>/s)

GHS = Global Harmonized System of Classification and Labeling Of Chemicals.

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure Limit

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transportation of Dangerous Goods

**Prepared By: OMNI Specialty Packaging EH&S Department**

**Revision Date: April 10, 2018**

**Status: Final**

**Revision Note: Revision 003 – Review and update.**

**Consumer Product Improvement Act of 2008, General Conformity Certification**

**For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.**

**Disclaimer**

All reasonably practicable steps have been taken to ensure 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. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

**End of Safety Data Sheet**

# MATERIAL SAFETY DATA SHEET

Jet Coding Inks

Squid Ink Manufacturing, Inc.  
1173 Osborne Road  
Spring Lake Park, MN 55432

Last Update: October 22, 2007  
MSDS Number: 9000011  
Emergency: (800) 424-9300

## I. PRODUCT IDENTIFICATION

Product Name: SI-EA43 Solvent Base Ink Jet Solvent  
Chemical Family: Ester

## II. INGREDIENTS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>LD50</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>
Ethyl Acetate	141-78-6	80-90	11g/kg	400ppm	400ppm	400ppm

## III. PHYSICAL DATA

Boiling Point: 168-172° F / 75.5-78° C  
Vapor Pressure (mm Hg): 86  
Vapor Density (Air=1): 3.04  
Solubility in Water: Miscible.  
Evaporation Rate (n-Butyl Acetate=1): 4.1  
Specific Gravity (Water=1): 0.80-0.92  
Percent Volatile by Volume (%): 80-90  
Appearance and odor: Colored liquid with an alcohol odor.

## IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 24° F / 4.44° C  
Flammable Limits: LEL: 3.4 UEL: 19  
Extinguishing Media: Carbon dioxide, dry chemical, or alcohol foam.  
Special Fire Fighting Procedures: Wear a self-contained breathing apparatus and chemical resistant personal protection.  
Unusual Fire and Explosion Hazards: Flammable, may ignite by spark or open flame.

## V. REACTIVITY DATA

Stability: (X) Stable ( ) Unstable  
Incompatibility: Oxidizing Materials.  
Hazardous decomposition products: Carbon Monoxide on combustion.  
Conditions to avoid: Prevent exposure to excessive heat and flame.

## VI. HEALTH HAZARD DATA

### Effects of Overexposure:

Eye Contact: Can cause irritation, redness, tearing and blurred vision.  
Skin Contact: Prolonged or repeated contact can cause minor skin irritation.  
Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation.  
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### First Aid:

Eye Contact: Flush with large amounts of water for 15 minutes and seek medical attention.  
Skin Contact: Remove contaminated clothing. Wash skin with soap and water.  
Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If problems persist, seek medical attention.  
Ingestion: Keep person warm and seek medical advice on whether to induce vomiting.

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### VII. SPILL OR LEAK PROCEDURES

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Steps to be taken in case material is released or spilled:

Isolate spill. Prevent run-off to sewers or other bodies of water. Absorb liquid with suitable absorbent material and place in containers for proper disposal.

Waste Disposal: Dispose contaminated absorbent in accordance with local, state and federal regulations.

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### VIII. SPECIAL PROTECTION INFORMATION

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Respiratory Protection: NIOSH / MSHA approved respirator when high concentrations of vapors exist.

Ventilation: Provide sufficient mechanical ventilation to maintain low concentrations of vapors.

Protective Clothing: Chemical resistant gloves.

Eye Protection: Safety goggles.

Other Protective Equipment: As necessary to avoid prolonged contact.

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### IX. TRANSPORTATION

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Proper Shipping Names: DOT: Printing Ink                      IMCO: Printing Ink Related Material

Hazard Classification: Flammable Liquid UN 1210      Flammable Liquid 1210

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### X. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

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Hazard Ratings:	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	4 - Severe
Health:	1				
Flammability:		3			
Reactivity:	0				

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# SI-KP70 Series Inks

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/19/2015

Revision date: 03/10/2015

Version: 1.2

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Name : SI-KP70 Series Inks (SI-KP70 Black, SI-KP71 Red, SI-KP72 Blue, SI-KP73 Green, SI-KP75 Yellow)  
 Product code : SI-KP70  
 Synonyms : SI-KP70-T, SI-KP70-G, SI-KP70-P, SI-KP70-SP, SI-KP70-55, SI-KP71-T, SI-KP71-G, SI-KP71-P, SI-KP71-SP, SI-KP71-55, SI-KP72-T, SI-KP72-G, SI-KP72-P, SI-KP72-SP, SI-KP72-55, SI-KP73-T, SI-KP73-G, SI-KP73-P, SI-KP73-SP, SI-KP73-55, SI-KP75-1000

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

Use of the substance/mixture : Inkjet printing ink

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

Squid Ink Manufacturing, Inc.  
 1173 Osborne Road  
 Spring Lake Park, MN 55432  
 United States of America

phone: 763-795-8856  
 fax: 763-795-8867  
 email: kschneider@squidink.com

#### 1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number
MEXICO	Servicio de Informacion Toxicologica Sintox	Tintoreto #32 Edif. a Desp. Col. Nochebuena Mixcoac México, D.F.	1 800 009 2800 +52 55 5611 2634 /+52 55 5598 9095
UNITED STATES OF AMERICA	American Association of Poison Control Centers		1-800-222-1222

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Flam. Liq. 2 H225  
 Eye Dam. 1 H318  
 STOT SE 3 H336

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS05

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor  
 H318 - Causes serious eye damage  
 H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

P210 - Keep away from heat, open flames, sparks. - No smoking  
 P233 - Keep container tightly closed  
 P240 - Ground/bond container and receiving equipment  
 P241 - Use explosion-proof electrical, lighting, ventilating equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EN (English US)

# SI-KP70 Series Inks

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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
butanone	(CAS No) 78-93-3	40-90	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
n-propanol	(CAS No) 71-23-8	0-10	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Repeated exposure may cause skin dryness or cracking. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after eye contact : Causes serious eye damage.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapor.
- Explosion hazard : May form flammable/explosive vapor-air mixture.
- Reactivity : The product is stable at normal handling and storage conditions.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

# SI-KP70 Series Inks

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing Fumes / vapours.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Avoid breathing fume, vapors. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Wash skin thoroughly after handling.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof lighting, electrical equipment and ventilation equipment.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat-ignition. Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

SI-KP70 Series Inks (SI-KP70 Black, SI-KP71 Red, SI-KP72 Blue, SI-KP73 Green)		
ACGIH	Not applicable	
OSHA	Not applicable	
butanone (78-93-3)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	300 ppm
ACGIH	Remark (ACGIH)	URT irr; CNS & PNS impair
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
n-propanol (71-23-8)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	100 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm

# SI-KP70 Series Inks

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### 8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation.  
Personal protective equipment : Protective goggles. Gloves. Avoid all unnecessary exposure.



- Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.  
Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid  
Color : Coloured - See Product Specification  
Odor : characteristic;Slight;Bitter almonds  
Odor threshold : No data available  
pH : No data available  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : 79,6 - 97,2 °C  
Flash point : -9,0 °C  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapor pressure : 1,57 kPa  
Relative vapor density at 20 °C : 3,11  
Relative density : No data available  
Specific gravity / density : 0,90 - 1,1 g/cm<sup>3</sup>  
Solubility : In water, material is partially soluble.  
Water: Solubility in water of component(s) of the mixture :  
• butanone, ethyl methyl ketone: 28 g/100ml • propan-1-ol, n-propanol:  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available  
Explosive limits : 1,8 - 10 vol %

### 9.2. Other information

- VOC content : 815 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

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### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

butanone (78-93-3)	
LD50 oral rat	2737 mg/kg (Rat; Equivalent or similar to OECD 423; Read-across; 2054 mg/kg; Rat; Equivalent or similar to OECD 423; Read-across; 2328 mg/kg; Rat)
LD50 dermal rabbit	6480 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >10; Rabbit)
LC50 inhalation rat (mg/l)	34 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	11300 ppm/4h (Rat; Literature study)
ATE US (oral)	2737,000 mg/kg body weight
ATE US (dermal)	6480,000 mg/kg body weight
ATE US (gases)	11300,000 ppmV/4h
ATE US (vapors)	34,000 mg/l/4h
ATE US (dust, mist)	34,000 mg/l/4h

n-propanol (71-23-8)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	4049 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	9,8 mg/l/4h (Rat)
ATE US (dermal)	4049,000 mg/kg body weight
ATE US (vapors)	9,800 mg/l/4h
ATE US (dust, mist)	9,800 mg/l/4h

Skin corrosion/irritation : Not classified  
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified  
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)Based on available data, the classification criteria are not met

Carcinogenicity : Not classified  
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

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Symptoms/injuries after eye contact : Causes serious eye damage.

### SECTION 12: Ecological information

#### 12.1. Toxicity

butanone (78-93-3)	
LC50 fish 1	1690 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	308 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2990 mg/l (96 h; Pimephales promelas)
TLM fish 1	5600 mg/l (96 h; Gambusia affinis)
TLM fish 2	1690 mg/l (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit algae 1	110 mg/l (168 h; Microcystis aeruginosa)
Threshold limit algae 2	4300 mg/l (192 h; Scenedesmus quadricauda)

n-propanol (71-23-8)	
LC50 fish 1	3200 mg/l 48 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	4415 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	4168 mg/l (48 h; Protozoa)
LC50 fish 2	4480 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	3644 mg/l (48 h; Daphnia magna)
TLM fish 1	200 - 500, Gobio gobio
TLM other aquatic organisms 1	100 - 1000, 96 h
Threshold limit algae 1	2000 mg/l (Selenastrum capricornutum)
Threshold limit algae 2	3100 mg/l (168 h; Scenedesmus quadricauda)

#### 12.2. Persistence and degradability

SI-KP70 Series Inks (SI-KP70 Black, SI-KP71 Red, SI-KP72 Blue, SI-KP73 Green)	
Persistence and degradability	Not established.

butanone (78-93-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition.
Biochemical oxygen demand (BOD)	1,92 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,31 g O <sub>2</sub> /g substance
ThOD	2,44 g O <sub>2</sub> /g substance
BOD (% of ThOD)	> % ThOD (5 day(s)) > 0.5

n-propanol (71-23-8)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition.
Biochemical oxygen demand (BOD)	0,47 - 1,63 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,23 g O <sub>2</sub> /g substance
ThOD	2,4 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,20 - 0,44 % ThOD

#### 12.3. Bioaccumulative potential

SI-KP70 Series Inks (SI-KP70 Black, SI-KP71 Red, SI-KP72 Blue, SI-KP73 Green)	
Bioaccumulative potential	Not established.

butanone (78-93-3)	
Log Pow	0,3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

n-propanol (71-23-8)	
Log Pow	0,25 (Experimental value)

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n-propanol (71-23-8)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

### 12.4. Mobility in soil

butanone (78-93-3)	
Surface tension	0,024 N/m (20 °C)
Ecology - soil	Slightly harmful to plants.

n-propanol (71-23-8)	
Surface tension	0,024 N/m (20 °C)

### 12.5. Other adverse effects

Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT	
Transport document description	: UN1210 Printing ink, flammable CONTAINS butanone, ethyl methyl ketone(78-93-3) ; propan-1-ol, n-propanol(71-23-8), 3, II
UN-No.(DOT)	: UN1210
Proper Shipping Name (DOT)	: Printing ink, flammable CONTAINS butanone, ethyl methyl ketone(78-93-3) ; propan-1-ol, n-propanol(71-23-8)
Hazard Classes (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid



Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L

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DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description : UN 1210 PRINTING INK (CONTAINS ; butanone, ethyl methyl ketone(78-93-3) ; propan-1-ol, n-propanol(71-23-8)), 3, II, (D/E)  
Packing group (ADR) : II  
Class (ADR) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 33  
Classification code (ADR) : F1  
Hazard labels (ADR) : 3 - Flammable liquids



Orange plates :

Tunnel restriction code (ADR) : D/E  
LQ : 5I  
Excepted quantities (ADR) : E2

### Transport by sea

UN-No. (IMDG) : 1210  
Proper Shipping Name (IMDG) : PRINTING INK  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger

### Air transport

UN-No.(IATA) : 1210  
Proper Shipping Name (IATA) : Printing ink  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### butanone (78-93-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not listed on the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
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#### n-propanol (71-23-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225

Eye Dam. 1 H318

STOT SE 3 H336

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F+; R12

Xi; R41

R66

R67

Full text of R-phrases: see section 16

### 15.2.2. National regulations

### 15.3. US State regulations

## SECTION 16: Other information

Revision date : 03/10/2015

Other information : None.

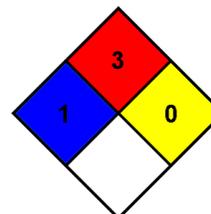
Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

*Disclaimer: This information contained is furnished without warranty of any kind, and is herein given in good faith. No warranty, expressed or implied, is made. Squid Ink Manufacturing, Inc. assumes no responsibility for personal injury or property damage to vendors, users, or third parties. While the information is believed to be reliable, we do not guarantee its accuracy. Purchasers are encouraged to make their own tests with materials described herein and must make independent determination of suitability and completeness of information from all sources to assure proper use with materials and compatibility with equipment.*



# Silicone Lubricant

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom2012.

Date of issue: 10/20/2020

Revision date: 10/20/2020

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product name : Silicone Lubricant  
Product code : 8-SL-S, 16-SL

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

Recommended use : Multi-Purpose Lubricant

#### 1.3. Supplier

The Blaster Corporation  
8500 Sweet Valley Drive  
Valley View, Ohio 44125 - USA  
T (216) 901-5800 - F (216) 901-5801  
[www.blastercorp.com](http://www.blastercorp.com)

#### 1.4. Emergency telephone number

Emergency number : Chemtel 800-255-3924

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Aerosol 2  
Press. Gas (Diss.)  
Asp. Tox. 1

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Flammable aerosol  
Contains gas under pressure; may explode if heated  
May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) : 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.  
If swallowed: Immediately call a poison center or doctor  
Do NOT induce vomiting.  
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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

# Silicone Lubricant

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### 3.2. Mixtures

Name	Product identifier	%
Alkanes, C9-11-iso-	(CAS-No.) 68551-16-6	30 - 60
Petroleum distillates, hydrotreated light	(CAS-No.) 64742-47-8	15 - 40
Carbon dioxide	(CAS-No.) 124-38-9	1 - 5

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Dry chemical. Carbon dioxide. Halons. Foam.
- Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Silicon oxides.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area.
- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Hazardous waste due to potential risk of explosion.
- Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Do not spray on an open flame or other ignition source.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Store locked up. Store in a cool, well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Alkanes, C9-11-iso- (68551-16-6)		
Not applicable		
Petroleum distillates, hydrotreated light (64742-47-8)		
Not applicable		
Carbon dioxide (124-38-9)		
ACGIH	ACGIH TWA (ppm)	5000 ppm
ACGIH	ACGIH STEL (ppm)	30000 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
IDLH	US IDLH (ppm)	40000 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	5000 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	54000 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	30000 ppm

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves

#### Eye protection:

Safety glasses or goggles are recommended when using product.

#### Skin and body protection:

Wear suitable protective clothing

# Silicone Lubricant

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. 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.

### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Gas/Pressurized Liquid
Appearance	: Clear
Color	: Colorless
Odor	: Mild aliphatic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 360 °F
Flash point	: 130 °F [TCC]
Relative evaporation rate (butyl acetate=1)	: > 1
Flammability (solid, gas)	: Flammable aerosol
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.81
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

Heat of Combustion	: 43.5 kJ/g
Flame Projection	: 0 inches
Flashback	: None

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Sources of ignition. Heat. Incompatible materials. Direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Water.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Silicon oxides.

# Silicone Lubricant

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Petroleum distillates, hydrotreated light (64742-47-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.2 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

##### Petroleum distillates, hydrotreated light (64742-47-8)

LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

#### 12.2. Persistence and degradability

##### Silicone Lubricant

Persistence and degradability : Not established.

#### 12.3. Bioaccumulative potential

##### Silicone Lubricant

Bioaccumulative potential : Not established.

##### Petroleum distillates, hydrotreated light (64742-47-8)

BCF fish 1 : 61 - 159

##### Carbon dioxide (124-38-9)

BCF fish 1 : (no bioaccumulation)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Flammable vapors may accumulate in the container. Do not incinerate empty containers.

# Silicone Lubricant

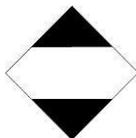
## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 14: Transport information

#### DOT, IATA & IMO

UN-No. : UN1950  
Proper Shipping Name : AEROSOLS, flammable, limited quantity  
Class : 2.1  
Hazard labels :



### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Date of issue : 10/20/2020  
Revision date : 10/20/2020  
Other information : None.

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

## Section 1: PRODUCT & COMPANY IDENTIFICATION

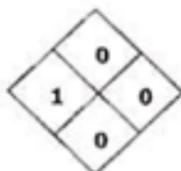
Product Name: **Simple Green® All-Purpose Cleaner**  
 Additional Names: Simple Green® Concentrated Cleaner Degreaser Deodorizer  
 Simple Green® Scrubbing Pad (Fluid in pad only)

Manufacturer's Part Number: *\*Please refer to page 4*

Company: Sunshine Makers, Inc.  
 15922 Pacific Coast Highway  
 Huntington Beach, CA 92649 USA  
 Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830  
 Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

## Section 2: HAZARDS IDENTIFICATION

**Emergency Overview:** CAUTION. Irritant. This is a Green colored liquid with a sassafras added odor. Scrubbing pad is a green fibrous rectangle infused with Simple Green Cleaner.



**NFPA/HMIS Rating:**  
 Health = 1 = slight  
 Fire, Reactivity, and Special = 0 = minimal

### Potential Health Effects

**Eye Contact:** Mildly irritating.  
**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.  
**Ingestion:** May cause stomach or intestinal irritation if swallowed.  
**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	≥ 78%
2-butoxyethanol	111-76-2	≤ 5%
Ethoxylated Alcohol	68439-46-3	≤ 5%
Tetrapotassium Pyrophosphate	7320-34-5	≤ 5%
Sodium Citrate	68-04-2	≤ 5%
Fragrance	Proprietary Mixture	≤ 1%
Colorant	Proprietary Mixture	≤ 1%

## Section 4: FIRST AID MEASURES

**If Inhaled:** If adverse effect occurs, move to fresh air.  
**If on skin:** If adverse effect occurs, rinse skin with water.  
**If in eyes:** Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.  
**If ingested:** Drink plenty of water to dilute.

**Section 5: FIRE FIGHTING MEASURES**

This formula is stable, non-flammable, and will not burn. No special procedures necessary

**Flammability:** Non-flammable

**Flash Point:** Non-flammable

**Suitable Extinguishing Media:** Use Dry chemical, CO2, water spray or "alcohol" foam.

**Extinguishing Media to Avoid:** High volume jet water.

**Special Exposure Hazards:** In event of fire created carbon oxides, oxides of phosphorus may be formed.

**Special Protective Equipment:** Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** See section 8 – personal protection.

**Environmental Precautions:** Do not allow into open waterways and ground water systems.

**Method for Clean Up:** Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

**Section 7: HANDLING AND STORAGE**

**Handling:** Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children.

**Storage:** Keep in cool dry area.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limit Values:**

2-butoxyethanol

Tetrapotassium Pyrophosphate

OSHA PEL  
TWA 50 ppm (240 mg/m<sup>3</sup>)

ACGIH TLV  
20 ppm (97 mg/m<sup>3</sup>)  
5 mg/m<sup>3</sup>

**Exposure Controls:**

**Eye Contact:** Use protective glasses if splashing or spray-back is likely.

**Respiratory:** Use in well ventilated areas.

**Skin Contact:** Prolonged exposure or dermal sensitive individuals should use protective gloves.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Green Liquid	<b>Vapor Pressure:</b>	18 mmHg @20°C; 23.5 mmHg @26°C	
<b>Odor:</b>	Added Sassafras odor	<b>Density:</b>	8.5 lb/gal;	
<b>Specific Gravity:</b>	1.010 ± 0.010	<b>Water Solubility:</b>	100%	
<b>pH:</b>	9.5 ± 0.5	<b>VOC composite Partial Pressure:</b>	TBD	
<b>Boiling Point:</b>	~210°F (98°C)	<b>VOC:</b>	CARB Method 310	3.8%
<b>Freezing Point:</b>	~ 32°F (0°C)		SCAQMD Method 313	2.8%
<b>Nutrient Content:</b>	Phosphorous: 0.28% Chloride: ~110 ppm	Sulfur: ~180 ppm Fluorine: ~90 ppm		

**Section 10: STABILITY AND REACTIVITY**

Stability: Stable  
 Materials to Avoid: None known  
 Hazardous Decomposition Products: Normal products of combustion - CO, CO<sub>2</sub>; Oxides of Phosphorous may occur.

**Section 11: TOXICOLOGICAL INFORMATION**

Acute Toxicity: Oral LD<sub>50</sub> (rat) > 5 g/kg body weight  
 Dermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight  
 Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

**Section 12: ECOLOGICAL INFORMATION**

Hazard to wild mammals: Low, based on toxicology profile  
 Hazard to avian species: Low, based on toxicology profile  
 Hazard to aquatic organisms: Low, based on toxicology profile  
 Chemical Fate Information: Readily Biodegradable per OECD 301D, Closed Bottle Test

**Section 13: DISPOSAL CONSIDERATIONS**

Appropriate Method for Disposal:

- Unused Product: \*Dilute with water to use concentration and dispose by sanitary sewer.
- Used Product: \*This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.
- Empty Containers: \*Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

\*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

**Section 14: TRANSPORT INFORMATION**

U.S. Department of Transportation (DOT) / Canadian TDG: Not Regulated  
 IMO / IDMG: Not classified as Dangerous  
 ICAO/ IATA: Not classified as Dangerous  
 ADR/RID: Not classified as Dangerous

U.N. Number: Not Required Proper Shipping Name: Detergent Solution  
 Hazard Class: Non-Hazardous Marine Pollutant: No

**Section 15: REGULATORY INFORMATION**

All components are listed on: EINECS, TSCA, DSL and AICS Inventory.

No components listed under: Clean Air Act Section 112; Clean Water Act 307 & 311

SARA Title III 2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

RCRA Status: Not a hazardous waste CERCLA Status : No components listed

State Right To Know Lists

2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island

**WHMIS Classification** – Category D, subcategory 2B, eye irritant

Name	Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act)	NPRI Inventory
2-butoxyethanol	Yes	No

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada’s Controlled Products Regulation.

**Section 16: OTHER INFORMATION**

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SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT

15922 Pacific Coast Hwy. Huntington Beach, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] Fax: 562/592-3830 Email: infoweb@simplegreen.com

**CAGE CODE 1Z575**

GSA/FSS - CONTRACT NO. GS-07F-0065J

Scrubbing Pad GSA/BPA - CONTRACT NO. GS-07F-BSIMP

**National Stock Numbers & Industrial Part Numbers:**

Simple Green	Part Number	NSN	Size
	13012	7930-01-342-5315	24 oz spray (12/case)
	13005	7930-01-306-8369	1 Gallon (6/case)
	13006	7930-01-342-5316	5 Gallon
	13016	7930-01-342-5317	15 Gallon
	13008	7930-01-342-4145	55 Gallon
	13103	N/A	2oz samples
	13225	N/A	2.5 Gallon
	13275	N/A	275 Gallon tote
	48049	N/A	1 Gallon Conc. w/ 32oz dilution
Scrubbing Pad	10224	7930-01-346-9148	Each (24/case)

**Retail Numbers:**

Part Number	Size
13002	16 oz Trigger (12/case)
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13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)
80007	Tier display holding 13005 (36/Tier)

*part number is for both industrial and retail*

**\*\*International Part Numbers May Differ.**

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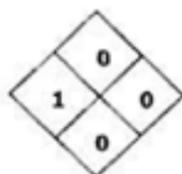
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U.N. Number: Not Required Proper Shipping Name: Detergent Solution  
 Hazard Class: Non-Hazardous Marine Pollutant: No

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All components are listed on: EINECS, TSCA, DSL and AICS Inventory.

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SARA Title III 2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

RCRA Status: Not a hazardous waste CERCLA Status : No components listed

State Right To Know Lists

2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island

**WHMIS Classification** – Category D, subcategory 2B, eye irritant

Name	Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act)	NPRI Inventory
2-butoxyethanol	Yes	No

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada’s Controlled Products Regulation.

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CAGE CODE 1Z575

GSA/FSS - CONTRACT NO. GS-07F-0065J

Scrubbing Pad GSA/BPA - CONTRACT NO. GS-07F-BSIMP

National Stock Numbers & Industrial Part Numbers:

Simple Green	Part Number	NSN	Size
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	13103	N/A	2oz samples
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Scrubbing Pad	10224	7930-01-346-9148	Each (24/case)

**Retail Numbers:**

Part Number	Size
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13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
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80007	Tier display holding 13005 (36/Tier)

part number is for both industrial and retail

**\*\*International Part Numbers May Differ.**

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**MATERIAL SAFETY DATA SHEET**

Emergency (800) 234-5979  
Information (661) 257-8787

SPRAYTEX, Inc.  
28430 West Witherspoon Parkway  
Valencia, CA 91355

**SPRAYTEX ORANGEPEEL DRYWALL SPRAY TEXTURE**

Latest Revision Date 6/21/94

Print Date 1/1/01

**SECTION 1**

**PRODUCT IDENTIFICATION**

PRODUCT NAME OR NUMBER..... SPRC003 [3033]  
TRADE NAME OR CHEMICAL NAME ..... SPRAYTEX ORANGEPEEL DRYWALL SPRAY TEXTURE  
SYNONYMS..... NA  
FORMULA..... TSP0301 (L29145)  
CHEMICAL FAMILY..... NA  
MOLECULAR WEIGHT ..... NA  
NFPA..... HEALTH=1; FLAMMABILITY=4; REACTIVITY=0  
HMIS RATING..... HEALTH=1; FLAMMABILITY=4; REACTIVITY=0

**SECTION 2**

**HAZARDOUS INGREDIENTS / HAZARD DATA**

<u>CHEMICAL NAMES</u>	<u>CAS NUMBER</u>	<u>% WT</u>	<u>TLV-TWA</u>	<u>PEL</u>	<u>SEC.313</u>
CALCIUM CARBONATE	471-34-1	47	0.1mg/m3	NOT ESTABLISHED	NO
ISOPROPYL ALCOHOL	67-63-0	6	400ppm	400ppm	NO
DIMETHYL ETHER	115-10-6	10	NONE ESTABLISHED	NONE ESTABLISHED	NO

\*Information for mixtures is based on constituent MSDS which are available upon request. (Minus Proprietary Trade Names)

**SECTION 3**

**PHYSICAL DATA**

BOILING/MELTING POINT @760 mm Hg ..... NOT ESTABLISHED  
pH..... NOT ESTABLISHED  
VAPOR PRESSURE mm Hg @ 20° C..... 60 psig @ 70° F  
VAPOR DENSITY (Air = 1) ..... >1  
PERCENT VOLATILE BY WEIGHT(%)..... NA  
SPECIFIC GRAVITY OR BULK DENSITY ..... 1.25  
SOLUBILITY IN WATER..... MISCIBLE  
EVAPORATION RATE (BuAc = 1)..... 1  
APPEARANCE..... OFF WHITE THICK PASTE  
ODOR..... CITRUS  
INTENSITY..... NA

**SECTION 4**

**FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT °f (Test Method)..... -42°F TOC  
AUTOIGNITION TEMPERATURE ..... 622°f  
FLAMMABILITY LIMITS IN AIR (% V)..... LEL=3.4%; UEL=18.0%  
EXTINGUISHING MEDIA . . . . . ANY MEDIA CAPABLE OF EXTINGUISHING THE SUPPORTING FIRE.  
SPECIAL FIRE FIGHTING PROCEDURES . . . KEEP TEMPERATURES OF CONTAINERS BELOW 120° f BY SPRAYING WITH WATER UNTIL FIRE HAS BEEN EXTINGUISHED.  
UNUSUAL FIRE & EXPLOSION HAZARDS . . . CONTAINERS MAY RUPTURE AND RELEASE A SMALL AMOUNT OF FLAMMABLE GAS IF EXPOSED TO HEAT OF FIRE.

**SECTION 5**

**HEALTH HAZARDS DATA \* EFFECTS OF OVEREXPOSURE**

SKIN CONTACT..... WASH EXCESS MATERIAL FROM SKIN WITH SOAP & WATER.  
EYE CONTACT..... FLUSH EYES WITH WARM WATER FOR 10 MINUTES.  
CONSULT A PHYSICIAN IF IRRITATION OCCURS OR WORSENS.  
INHALATION..... IF INHALED EXCESSIVELY, REMOVE TO FRESH AIR.  
INGESTION..... PRODUCT IS NOT LIKELY TO BE INGESTED. IF THIS OCCURS TREAT SYMPTOMATICALLY.  
CHRONIC EFFECTS OF OVEREXPOSURE..... NONE WHEN USED AS DIRECTED.  
TOXICOLOGICAL TEST DATA ..... NO RESULTS AVAILABLE.

note: ALL CHEMICALS ARE LISTED ON THE TSCA INVENTORY.

## SPRAYTEX ORANGEPEEL DRYWALL SPRAY TEXTURE

### SECTION 6 EMERGENCY AND FIRST AID PROCEDURES

SKIN ..... Wash affected area with water while removing contaminated clothing.  
GET IMMEDIATE MEDICAL ATTENTION. Launder contaminated clothing before reuse.

EYES..... Flush eyes with generous amounts of water for at least 15 minutes.  
GET IMMEDIATE MEDICAL ATTENTION.

INGESTION..... If swallowed, **DO NOT INDUCE VOMITING**. Dilute with water or milk. CALL A PHYSICIAN IMMEDIATELY.  
Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

INHALATION..... Move to fresh air. Aid in breathing, if necessary and get immediate medical attention.

### SECTION 7 REACTIVITY DATA

PRODUCT STABILITY ..... STABLE

CONDITIONS TO AVOID ..... NONE KNOWN. CONTENTS ARE STABLE BUT UNDER PRESSURE.  
DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY.

CHEMICAL INCOMPATIBILITY..... KEEP AWAY FROM ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS. CALCIUM OXIDE MAY BE PRODUCED ON DECOMPOSITION.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

CONDITIONS TO AVOID ..... NONE KNOWN.

CORROSIVE TO METAL..... NO.

OXIDIZER ..... NA

### SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION..... NIOSH/MSHA - Approved organic vapor respirator when vapors are generated above  
the permissible limit

VENTILATION..... Local exhaust to control to recommended P.E.L.

PROTECTIVE CLOTHING..... Gloves, coveralls, aprons, boots, - as necessary to prevent skin contact.

EYE PROTECTION ..... Chemical Goggles

OTHER PRECAUTIONS..... Avoid excessive inhalations. Read and follow all label directions and cautions.  
Eyewash fountains should be easily accessible.

### SECTION 9 ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA ..... NA

SPILL OR LEAK PROCEDURES ..... LEAKING CONTAINERS SHOULD BE PLACED IN AN OPENED CONTAINER,  
OUTDOORS, AWAY FROM SOURCES OF IGNITION, UNTIL ALL PRESSURE IS RELEASED.

HAZARDOUS SUBSTANCE SUPERFUND ....NA

WASTE DISPOSAL METHOD..... BURY OR INCINERATE IN APPROVED DISPOSAL FACILITIES IN ACCORDANCE WITH  
FEDERAL, STATE AND LOCAL REGULATION.

CONTAINER DISPOSAL ..... EMPTY CONTAINERS & DRIED PRODUCT MAY BE DISPOSED OF AS NORMAL  
REFUSE.

### SECTION 10 SHIPPING DATA

D.O.T. PROPER SHIPPING NAME..... CONSUMER COMMODITY

HAZARDOUS SUBSTANCE 49CFR CERCLA..... NA

D.O.T. HAZARD CLASS ..... ORM-D

D.O.T. LABELS REQUIRED ..... NONE

D.O.T. PLACARDS REQUIRED ..... NONE

POISON CONSTITUENT..... NONE

BILL OF LADING DESCRIPTION..... CONSUMER COMMODITY ORM-D

CC NO..... NA

UN/NA CODE..... NONE

### SECTION 11 SUPPLIER INFORMATION

The information contained herein is, to the best of our knowledge and belief, accurate and reliable as of the date of issued. We do not however, warrant or guarantee the accuracy or reliability, nor shall we be liable for any loss or damage arising out of the use thereof. The information is offered for the user's consideration and examination, and it is the user's responsibility to satisfy himself that it is suitable and complete for his particular use.

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