# (M)SDS BOOK FOR ELECTRICAL

JANUARY 2021

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# SAFETY DATA SHEET ACETONE

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

PRODUCT NAME: ACETONE

SYNONYMS, TRADE NAMES: PROPAN-2-ONE

SUPPLIER J M Loveridge Ltd

Unit 5, Kingsway

Walworth Industrial Estate, Andover

Hampshire, SP10 5LQ +44 (0) 1264 367610 +44 (0) 1264 351761

Mr. S Knight - admin@jmloveridge.com

**EMERGENCY CONTACT NUMBER:** 

### **2 HAZARDS IDENTIFICATION**

Classification (1999/45): Xi;R36. F;R11. R66, R67

Classification (EC 1272/2008): Physical and

Chemical Hazards Flam. Liq. 2 – H225

Human Health EUH066; Eye Irrit. 2 – H319; STOT SE 3 – H336

Environment Not classified

Label in accordance with (EC) No. 1272/2008





Signal Word: Danger Contains: Acetone

Hazard Statements: H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces – No

**Smoking** 

P261 Avoid breathing vapours P280 Wear protective gloves

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

P370+378A In case of fire: Use foam, carbon dioxide, dry powder or other

inert material for extinction. Do not use high pressure water

jet as this may spread burning material.

P501D Empty containers may contain residual product and vapours.

Do not cut or weld on or near empty containers. Disposal should only be by means of a licensed waste disposal

contractor.

**Supplementary Precautionary Statements:** 

P243 Take precautionary measures against static discharge

P271 Use only outdoors or in well-ventilated area

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P403+233+235 Store in well-ventilated place. Keep container tightly closed,

Keep cool.

Supplemental Label Information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

### **3 COMPOSITION/INFORMATION ON INGREDIENTS**

ACETONE		>98%
CAS-No.: 67-64-1	EC No.: 200-662-2	Registration Number: 01-2119471330-49-XXXX
CLASSIFICATION (EC 1272/2008)	CLASSIFICATION (67,	/548/EEC)
Flam. Liq. 2 – H225	F;R11	
EUH066	Xi;R36	
Eye Irrit. 2 – H319	R66	
STOT SE 3 – H336	R67	

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

EC (EINECS) NO. 200-662-2 CAS-NO. 67-64-1

Composition Comments This product is not a mixture

### **4 FIRST-AID MEASURES**

### **GENERAL INFORMATION**

Remove affected person from source of exposure. Provide fresh air, first-aid, warmth and rest. Never give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

### NOTES TO PHYSICIAN

No specific first aid measures noted.

### **INHALATION**

If unconscious or breathing is irregular place on their side in the recovery position and ensure their airways are clear. Artificial respiration may be administered by suitably qualified first-aiders if the patient in unconscious or breathing is difficult. Get immediate medical attention.

### **INGESTION**

If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly and seek medical attention if discomfort persists. Keep patient under observation.

### SKIN CONTACT

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Launder clothing before re-use.

### **EYE CONTACT**

Check for contact lenses which must be removed from the eyes before rinsing. Promptly rinse eyes with plenty of clean water while lifting the eyelids. Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination. Get medical attention if any discomfort or irritation persists.

### **5 FIRE-FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

### SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

### SPECIFIC HAZARDS

In fire conditions this product as well as giving off intense heat may evolve gaseous oxides of carbon and nitrogen. Burning material gives off dense acrid smoke and fumes which may contain other toxic and harmful gases. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface, or an ember.

### PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

### **6 ACCIDENTAL RELEASE MEASURES**

### PERSONAL PRECAUTIONS

Wear protective clothing (see section 8). Keep unnecessary people at a safe distance.

### **ENVIRONMENTAL PRECAUTIONS**

Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATLEY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

### SPILL CLEAN UP METHODS

Ventilate well. Extinguish all ignition sources. Avoid sparks, flames, heat. No smoking. Keep flammable materials away from spillage. Clean-up personnel should use a respirator and liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Wash well after dealing with spillage. Inform authorities if large amounts are involved. Rinse site with copious amounts of water, which should not be allowed into drains, sewers or water courses.

### **7 HANDLING AND STORAGE**

### **USEAGE PRECAUTIONS**

Use only with adequate ventilation. Do not breathe vapour or mist. Keep away from heat, sparks or flame. Containers and equipment must be bonded to avoid static discharge. Use only electrical equipment suitable for explosive atmospheres. Avoid spilling, skin and eye contact. Wash thoroughly after handling.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep away from food, drink and animal feeding stuffs. Store away from oxidising materials.

STORAGE CLASS

Flammable liquid storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA – 8 hrs		STEL –	15 min	Notes
ACETONE	WEL	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3	

WEL = Workplace Exposure Limit.

**STD** 

WEL = Workplace Exposure Limits

PROCESS CONDITIONS

Provide eyewash station

**ENGINEERING MEASURES** 

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### RESPIRATORY EQUIPMENT

If ventilation is insufficient suitable respiratory protection must be provided. Seek advice and recommendations of the manufacturer or supplier of equipment.

### HAND PROTECTION

Wear suitable protective gloves conforming to EN 374. Seek recommendations from manufacturer or supplier. Suitable gloves may include – Butyl rubber, Neoprene, nitrile, polyethylene or PVC. After using gloves the hands should be washed and thoroughly dried and a suitable moisturiser applied.

### **EYE PROTECTION**

Wear tightly fitting safety goggles conforming to EN166. Contact lenses should not be worn when working with this chemical!

### OTHER PROTECTION

Provide eyewash station and safety shower. Minimise all forms of skin contact. Overalls and footwear with oil and chemical resistant soles should be worn. Launder overalls and undergarments regularly.

### **HYGIENE MEASURES**

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothes should be removed and laundered before re-use.

### SKIN PROTECTION

Relative Density:

Avoid prolonged and/or repeated contact with skin.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Colour: Colourless
Odour: Characteristic
Volatility Description: Highly Volatile

Solubility: Completely miscible with water

0.79 @ 20°C

Boiling Point (°C): 56°C Melting Point (°C): -95°C

Vapour Pressure: 240 hPa 20°C

Volatile by Vol. (%): 100

pH-Value Conc. Solution: 5-6 @ 20°C

Viscosity: 0.33 @ 20°C mPas 25°C

Flash Point (°C): -17°C

**Auto Ignition** 

Temperature: 465°C

Flammability Limit – 2.2 Flammability Limit – 12.8

Lower (%):

-0.24 @ 20°C Volatile Organic

Upper (%):

100% (EC/1999/13)

(N-Octanol/Water): Compound (VOC):

Solubility Value (g/100g

**Partition Coefficient** 

H20@20°C): Miscible

### **10 STABILITY AND REACTIVITY**

**STABILITY** 

Stable under normal conditions of storage and use. See Section 7.

**CONDITIONS TO AVOID** 

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising agents, acids and bases. Peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 – LD 50 5800 mg/kg (oral rat)
TOXIC DOSE 2 – LD 50 2000 mg/kg (dermal-rbt)

TOXICOLOGICAL INFORMATION

Normal precautions necessary for the handling of all chemicals and the information and advice provided in this Safety Data Sheet (SDS) should be observed.

**INHALATION** 

Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea

SKIN CONTACT

Can cause de-fatting and dryness of skin, leading to cracking and eczema. Unlikely to cause harm on brief contact, but prolonged exposure may lead to dermatitis.

**ROUTE OF ENTRY** 

Inhalation. Skin absorption.

### 12 ECOLOGICAL INFORMATION

**MOBILITY** 

Contamination will evaporate from the surface of water and soils.

BIOACCUMULATION

The product is not bioaccumulating.

**DEGRADABILITY** 

The product is easily biodegradable.

### 13 DISPOSAL CONSIDERATIONS

### **GENERAL INFORMATION**

Empty containers may contain residual product and flammable vapours. Keep away from sparks, heat and sources of ignition. Labels should not be removed. Empty unlaundered containers must be treated in the same manner as when full; labels should not be removed.

### **DISPOSAL METHODS**

Product is classified as hazardous waste. Disposal of waste material and empty containers must be by means of a licensed waste contractor.

### **WASTE CLASS**

European Waste Catalogue numbers must be determined from the nature of use and process from which the waste arises.

### 14 TRANSPORT INFORMATION



PROPPER SHIPPING NAME ACETONE
UN NO ROAD 1090
ADR CLASS NO 3

ADR CLASS Class 3: Flammable Liquids

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**ADR PACK GROUP TUNNEL RESTRICTION CODE** (D/E) HAZARD NO (ADR) 33 ADR LABEL NO 3 HAZCHEM CODE ●2YE **UN NO SEA** 1090 **IMDG CLASS** 3 IMDG PACK GR Ш **EMS** F-E, S-D **UN NO AIR** 1090 AIR CLASS 3

### **15 REGULATORY INFORMATION**

### **EU DIRECTIVES**

AIR PACK GR

Dangerous Substances Directive 67/548/EEC

Dangerous Preparations Directive 1999/45/EC

EC Regulation 1907/2006 (as amended): 'REACH'

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments (as amended).

### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 SI No 716 (CHIP4). Control of Substances Hazardous to Health Regulations (as amended). (COSHH) Refer to Revised guidance 6<sup>th</sup> Edition 2013 <a href="http://www.hse.gov.uk/pubns/priced/l5.pdf">http://www.hse.gov.uk/pubns/priced/l5.pdf</a> Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009) Environmental Protection (Duty of Care) Regulations.

**GUIDANCE NOTES** 

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

### **16 OTHER INFORMATION**

### HAZARD STATEMENTS IN FULL

H319 Causes serious eye irritation
H225 Highly flammable liquid and vapour
H336 May cause drowsiness or dizziness

EUH066 Repeated exposure may cause skin dryness or cracking

### DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.

### GHS SAFETY DATA SHEET

Date Revised: SEP 2018 CANTEX ALL WEATHER CLR Low VOC Cement for Plastic Pipe FEB 2018

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

CANTEX ALL WEATHER CLR Low VOC Cement for Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

GHS	CLASSI	FICAT	ION:

	Health	Envir	onmental	Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2				

GHS LABEL:



Signal Word: Danger

WHMIS CLASSIFICATION: CLASS B. DIVISION 2

CLASS D, DIVISION 2B

Hazard Statements

H225: Highly flammable liquid and vapo H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

EUH019: May form explosive peroxides

Precautionary Statements P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention

P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	30 - 50
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	4 - 15
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	8 - 17
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	5 - 15

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

\* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

### SECTION 4 - FIRST AID MEASURES

Contact with eyes: Skin contact: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

### Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages,

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: Category 2 Carcinogen

### **SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media: HMIS 0-Minimal Dry chemical powder, carbon dioxide gas, foam, Halon, water fog NFPA Unsuitable Extinguishing Media: Water spray or stream. 1-Slight Health Exposure Hazards: Flammability Inhalation and dermal contact 3 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious В

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. **Environmental Precautions:** 

Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel Methods for Cleaning up:

Materials not to be used for clean up: Aluminum or plastic containers

### SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Storage:

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

Follow all precautionary information on container label, product bulletins and solvent cementing literature

# SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	CAL/OSHA Ceiling	CAL/OSHA STEL	
hydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	Ĩ
I Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	
hexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E	
ne	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm	
	nydrofuran (THF) I Ethyl Ketone (MEK) hexanone	nydrofuran (THF) 50 ppm 11 Ethyl Ketone (MEK) 200 ppm hexanone 20 ppm	nydrofuran (THF) 50 ppm 100 ppm I Ethyl Ketone (MEK) 200 ppm 300 ppm hexanone 20 ppm 50 ppm	nydrofuran (THF) 50 ppm 100 ppm 200 ppm I Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm hexanone 20 ppm 50 ppm 50 ppm	nydrofuran (THF) 50 ppm 100 ppm 200 ppm N/E I Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E hexanone 20 ppm 50 ppm 50 ppm N/E	Actin   1	Component         ACGH ILV         ACGH STEL         OSHA PEL         OSHA STEL         PEL-Ceiling         PEL           Nydprofuran (THF)         50 ppm         100 ppm         200 ppm         N/E         N/E         200 ppm           I Ethyl Ketone (MEK)         200 ppm         300 ppm         200 ppm         N/E         N/E         200 ppm           nexanone         20 ppm         50 ppm         N/E         N/E         25 ppm	Component   Accidit It   Accidit STEL   OSHA PEL   OSHA STEL   PEL-Ceiling   PEL   Ceiling   Nycorduran (THF)   50 ppm   100 ppm   200 ppm   N/E   N/E   200 ppm   N/E   N/E   200 ppm   N/E   N/E   200 ppm   N/E   N/E   25 ppm   N/E   N/E   25 ppm   N/E   N	ACGIN 1EL   ACGIN 1EL   ACGIN 1EL   OSHA FEL   OSHA FEL   PEL -Ceiling   PEL   Ceiling   CALOSHA STEL

**Engineering Controls:** Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Eve Protection:

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local

exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

Stability:

### GHS SAFETY DATA SHEET

Date Revised: SEP 2018 CANTEX ALL WEATHER CLR Low VOC Cement for Plastic Pipe FEB 2018 Supersedes:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, medium syrupy liquid

Odor: Ketone Odor Threshold: 0.88 ppm (Cyclohexanone) pH: Not Applicable

-108.5°C (-163.3°F) Based on first melting component: THF Melting/Freezing Point: **Boiling Range:** 56°C (133°F) to 156°C (313°F)

Boiling Point: 56°C (133°F) Based on first boiling component: Acetone Evaporation Rate: > 1.0 (BUAC = 1)

Flash Point: -20°C (-4°F) TCC based on Acetone Flammability: Category 2

LEL: 1.1% based on Cyclohexanone
UEL: 12.8% based on Acetone Specific Gravity: 0.934 @23°C (73°F) Flammability Limits: Solvent portion soluble in water. Resin portion separates out. Solubility:

Partition Coefficient n-octanol/w Not Available Vapor Pressure: 190 mm Hg @ 20°C (68°F) Acetone Auto-ignition Temperature: 321°C (610°F) based on THF Vapor Density: >2.0 (Air = 1)

**Decomposition Temperature:** Not Applicable Other Data: Viscosity: Medium bodied When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l. VOC Content:

SECTION 10 - STABILITY AND REACTIVITY

None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke Hazardous decomposition products: Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

LC50 LD<sub>50</sub> Toxicity: Target Organs Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Methyl Ethyl Ketone (MEK) Inhalation 8 hrs. 23,500 mg/m³ (rat) STOT SE3 Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat)

Acetone Inhalation 50,100 mg/m3 (rat) STOT SE3 Reproductive Effects Synergistic Products **Teratogenicity** Mutagenicity Embryotoxicity Sensitization to Product Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of  $\leq$  510 g/l.

Degradability: Not readily biodegradable

Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert. **SECTION 14 - TRANSPORT INFORMATION** 

Proper Shipping Name: **EXCEPTION** for Ground Shipping Hazard Class: 3

Secondary Risk: DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. None

Identification Number: UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

Packing Group: PG II

Class 3 Flammable Liquid TDG INFORMATION Label Required: Marine Pollutant: TDG CLASS: NO

FLAMMABLE LIQUID 3 SHIPPING NAME **ADHESIVES** 

UN NUMBER/PACKING GROUP: UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION** Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia F. Xi

Symbols: AICS, Korea ECL/TCCL, Japan MITI (ENCS) Risk Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S2: Keep out of the reach of children S25: Avoid contact with eyes

S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges

SECTION 16 - OTHER INFORMATION

Specification Information: All ingredients are compliant with the requirements of the European

Department issuing data sheet: Safety Health & Environmental Affairs Directive on RoHS (Restriction of Hazardous Substances)

Yes, training in practices and procedures contained in product literature. Training necessary:

Reissue date / reason for reissue: 9/25/2018 / Updated GHS Standard Format Intended Use of Product: Solvent Cement for PVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

### **GHS SAFETY DATA SHEET**

CANTEX #99 CLEAR Low VOC PVC Plastic Pipe Cement

Date Revised: SEP 2018 Supersedes: MAY 2018

### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

CANTEX #99 CLEAR Low VOC PVC Plastic Pipe Cement

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800.255-3924. +1 813-248-0585 (International)

### **SECTION 2 - HAZARDS IDENTIFICATION**

### GHS CLASSIFICATION:

	Health	Er	nvironmental	Phys	ical
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2				

### GHS LABEL:





Signal Word: . Danger

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2 CLASS D. DIVISION 2B

### Precautionary Statements H225: Highly flammable liquid and vapor P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking H319: Causes serious eye irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection H332: Harmful if inhaled H335: May cause respiratory irritation P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P403+P233: Store in a well ventilated place. Keep container tightly closed H336: May cause drowsiness or dizziness H351: Suspected of causing cancer 2501: Dispose of contents/container in accordance with local regulation EUH019: May form explosive peroxid

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	5 - 15
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	30 - 45
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	5 - 15
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	15 - 35

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing

Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity

### **SECTION 4 - FIRST AID MEASURES**

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

Likely Routes of Exposure: Inhalation, Eve and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: Category 2 Carcinogen

### **SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media:	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.		HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Water spray or stream.	Health	2	2	1-Slight
Exposure Hazards:	Inhalation and dermal contact	Flammability	3	3	2-Moderate
Combustion Products:	Oxides of carbon, hydrogen chloride and smoke	Reactivity	0	0	3-Serious
		PPE	В		4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

**Environmental Precautions:** Methods for Cleaning up:

Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel Materials not to be used for clean up: Aluminum or plastic containers

### SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods

Do not eat, drink or smoke while handling. Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Storage:

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

1000 ppm

Follow all precautionary information on container label, product bulletins and solvent cementing literature.

500 ppm

### OSHA CAL/OSHA CAL/OSHA EXPOSURE LIMITS: Component ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL CAL/OSHA STEL PEL-Ceiling Ceiling PEL Tetrahydrofuran (THF 50 ppm 250 ppm 100 ppm 200 ppm N/E N/E 200 ppm N/E Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E N/E 200 ppm 300 ppm Cyclohexanone 20 ppm 50 ppm 50 ppm N/E N/E 25 ppm N/E N/E

Acetone **Engineering Controls:** Use local exhaust as needed.

Maintain breathing zone airborne concentrations below exposure limits Monitoring:

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,

etc. as may be appropriate for the exposure.

Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Skin Protection:

750 ppm

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

N/E

N/E

500 ppm

3000 ppm

750 ppm

practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

> Filename: CANTEX #99 CLR Voc 9-18.xls Page 1 of 2

### **GHS SAFETY DATA SHEET**

Date Revised: SEP 2018 CANTEX #99 CLEAR Low VOC PVC Plastic Pipe Cement Supersedes: MAY 2018

Odor Threshold:

Boiling Range:

Flammability:

**Evaporation Rate:** 

Vapor Pressure:

Vapor Density:

TDG INFORMATION

Flammability Limits:

0.88 ppm (Cyclohexanone)

> 1.0 (BUAC = 1)

Category 2

>2.0 (Air = 1)

56°C (133°F) to 156°C (313°F)

UFI: 12.8% based on Acetone 190 mm Hg @ 20°C (68°F) Acetone

STOT SE3

LEL: 1.1% based on Cyclohexanone

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, regular syrupy liquid

Odor: Ketone pH: Not Applicable

Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF

**Boiling Point:** 56°C (133°F) Based on first boiling component: Acetone

Flash Point: -20°C (-4°F) TCC based on Acetone Specific Gravity: 0.894 @23°C (73°F)

Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/water: Not Available

321°C (610°F) based on THF **Auto-ignition Temperature:** 

Decomposition Temperature Not Applicable

Other Data: Viscosity: Regular bodied When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: < 469 g/l. **VOC Content:** 

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.

Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

LD<sub>50</sub> LC<sub>50</sub> **Target Organs** Toxicity: Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3

Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Cyclohexanone Acetone Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m3 (rat)

**Teratogenicity Embryotoxicity** Sensitization to Product Synergistic Products Reproductive Effects Mutagenicity Not Established Not Established Not Established Not Established Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of  $\leq$  469 g/l.

Degradability: Not readily biodegradable Bioaccumulation:

Minimal to none. SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

**SECTION 14 - TRANSPORT INFORMATION** 

Proper Shipping Name Hazard Class: EXCEPTION for Ground Shipping 3

Secondary Risk: None DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D' Identification Number: UN 1133

Packing Group: PG II

Class 3 Flammable Liquid Label Required:

FLAMMABLE LIQUID 3 Marine Pollutant: NO TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING GROUP **ADHESIVES** UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION** Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia

Symbols: F Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Risk Phrases: R11: Highly flammable R66: Repeated exposure may cause skin dryness or cracking

R20-Harmful by inhalation. R67: Vapors may cause drowsiness and dizziness

R36/37: Irritating to eyes and respiratory system

Safety Phrases: S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges

S25: Avoid contact with eyes S46: If swallowed, seek medical advise immediately and show this container or label

**SECTION 16 - OTHER INFORMATION** 

Specification Information: All ingredients are compliant with the requirements of the European

Department issuing data sheet: Directive on RoHS (Restriction of Hazardous Substances). Safety Health & Environmental Affairs

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 9/25/2018 / Updated GHS Standard Format Intended Use of Product: Solvent Cement for PVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 1. IDENTIFICATION

Product Name Commercial ABC Dry Chemical

(Fire Extinguishing Agent, Pressurized and Non-

pressurized)

Other Names Multi-Purpose, Ammonium Phosphate, Monoammonium

Phosphate

Recommended use of the chemical and

restrictions on use

Identified uses Fire Extinguishing Agent

Restrictions on use Consult applicable fire protection codes
Company Identification Kidde Residential & Commercial

1016 Corporate Park Drive

Mebane, NC 27302

USA

Customer Information Number (919) 563-5911

(919) 304-8200

Emergency Telephone Number CHEMTREC Number

(800) 424-9300

(703) 527-3887 (International)

December 10, 2019

May 31, 2019

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### 2. HAZARD IDENTIFICATION

**Supersedes Date** 

**Issue Date** 

This SDS covers the product listed above as sold in pressurized and non-pressurized containers. GHS classifications for both forms are listed below.

### **GHS Classification - Pressurized**

### **Hazard Classification**

Gas under pressure - Compressed gas

### **Label Elements**

Hazard Symbols



Signal Word: Warning

### **Hazard Statements**

Contents under pressure; may explode if heated.

Precautionary Statements Prevention

None



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 2. HAZARD IDENTIFICATION

Response

None

**Storage** 

Protect from sunlight.

Store in well-ventilated place.

**Disposal** 

None

GHS Classification: Non - pressurized

### **Hazard Classification**

This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

### **Label Elements**

Hazard Symbols

None

Signal Word: None

### **Hazard Statements**

None

### **Precautionary Statements**

**Prevention** 

None

Response

None

Storage

None

Disposal

None .

### Other Hazards

This product may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans.

### **Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity < 10%
Acute dermal toxicity < 10%
Acute inhalation toxicity < 10%
Acute aquatic toxicity < 10%



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Calcium Carbonate	471-34-1	10 – 30%
Mica	12001-26-2	0.5 - 1.5%
Kaolin Clay	1332-58-7	0.5 – 1.5%
Non-hazardous ingredients		
Monoammonium Phosphate	7722-76-1	45 – 70%
Ammonium Sulfate	7783-20-2	10 – 30%

Note: Pressurized product uses nitrogen or compressed air as the expellant.

### 4. FIRST- AID MEASURES

# Description of necessary first-aid measures

### Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

### Skin

Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

### Ingestion

Dilute by drinking large quantities of water and obtain medical attention.

### Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

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

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

# Indication of immediate medical attention and special treatment needed Notes to Physicians

Treat symptomatically.

### 5. FIRE - FIGHTING MEASURES

### Suitable Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

### Specific hazards arising from the chemical

Pressurized containers may explode in heat of fire.

### Special Protective Actions for Fire-Fighters

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

<sup>\*</sup>Exact concentration withheld as trade secret.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Prevent skin and eye contact. Remove leaking container to a safe place. Ventilate the area.

### **Environmental Precautions**

Prevent large quantities of the material from entering drains or watercourses.

### Methods and materials for containment and cleaning up

Sweep up or vacuum and transfer into suitable containers for recovery or disposal.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Wear appropriate protective clothing. Prevent skin and eye contact.

### Conditions for safe storage

Pressurized containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the pressurized or plastic container. Store pressurized and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits are listed below, if they exist.

### **Calcium Carbonate**

OSHA PEL: 15 mg/m3 TWA, total dust

5 mg/m<sup>3</sup> TWA, respirable fraction

Mica

ACGIH TLV: 3 mg/m³ TWA, measured as respirable fraction of the aerosol.

OSHA PEL: 20 mppcf, <1% crystalline silica

Kaolin

ACGIH TLV: 2 mg/m³ TWA, for particulate matter containing no asbestos and <1% Crystalline silica

OSHA PEL: 15 mg/m³ TWA, total dust

5 mg/m<sup>3</sup> TWA, respirable fraction

Particulates not otherwise classified /regulated

OSHA PEL: 50 mppcf or 15 mg/m<sup>3</sup> TWA, total dust 15 mppcf or 5 mg/m<sup>3</sup> TWA, respirable fraction

# Appropriate engineering controls

Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### EXPOSURE CONTROLS/PERSONAL PROTECTION

### Individual protection measures

### **Respiratory Protection**

Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.

### **Skin Protection**

Gloves

### **Eve/Face Protection**

Chemical goggles or safety glasses with side shields.

### **Body Protection**

Normal work wear.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Non- Pressurized

Appearance

Odor

**Physical State** Solid (powder)

Pale Yellow Color Odorless

**Odor Threshold** No data available

Not applicable pН **Specific Gravity** No data available **Boiling Range/Point (°C/F)** Not applicable Melting Point (°C/F) No data available Flash Point (PMCC) (°C/F) Not flammable

Vapor Pressure No data available **Evaporation Rate (BuAc=1)** No data available Solubility in Water No data available Vapor Density (Air = 1) Not applicable

VOC (g/l) None **VOC (%)** None

Partition coefficient (n-No data available

octanol/water)

No data available **Viscosity Auto-ignition Temperature** No data available **Decomposition Temperature** No data available **Upper explosive limit** No data available Lower explosive limit No data available Flammability (solid, gas) No data available

### Expellant - Nitrogen

**Appearance** 

**Physical State** Compressed gas

> Color Colorless

Odor None

**Odor Threshold** No data available Hq Not applicable

**Specific Gravity** 0.075 lb/ft3 @70°F as vapor

**Boiling Range/Point (°C/F)** -196°C/-321°F -210°C/-346°F Melting Point (°C/F) Flash Point (PMCC) (°C/F) Not flammable



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure

Evaporation Rate (BuAc=1)

Solubility in Water

Vapor Density (Air = 1)

No data available
Not applicable
0.02 g/L
0.97

VOC (g/l)

VOC (%)

Not applicable

Not applicable

No data available

octanol/water)

Viscosity
Auto-ignition Temperature
Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

Not applicable
No data available
Not explosive
Not explosive
Not flammable

### 10. STABILITY AND REACTIVITY

### Reactivity

Pressurized containers may rupture or explode if exposed to heat.

### **Chemical Stability**

Stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### **Conditions to Avoid**

Exposure to direct sunlight - contact with incompatible materials

### **Incompatible Materials**

Strong oxidizing agents - strong acids - sodium hypochlorite

### **Hazardous Decomposition Products**

Oxides of carbon - ammonia - oxides of phosphorus - nitrogen oxides

### 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

Mica:

Oral LD50 (Rat) >2000 mg/kg

Kaolin (clay):

Oral LD50 (Rat) >5000 mg/kg Dermal LD50 (Rabbit) >5000mg/kg

Nitrogen

Simple asphyxiant

### Specific Target Organ Toxicity (STOT) - single exposure

<u>Nitrogen:</u> Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 11. TOXICOLOGICAL INFORMATION

### Specific Target Organ Toxicity (STOT) - repeat exposure

No relevant studies identified.

### Serious Eye damage/Irritation

Mica: Not irritating (rabbit)

### Skin Corrosion/Irritation

Mica: Not irritating (rabbit)

### Respiratory or Skin Sensitization

No relevant studies identified.

### Carcinogenicity

This product may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC has classified Silica Dust, Crystalline, in the form of quartz or cristobalite as 1 (carcinogenic to humans).

### **Germ Cell Mutagenicity**

No relevant studies identified.

### Reproductive Toxicity

No relevant studies identified.

### **Aspiration Hazard**

Not an aspiration hazard.

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No relevant studies identified.

### Mobility in soil

No relevant studies identified.

### Persistence/Degradability

No relevant studies identified.

### **Bioaccumulative Potential**

No relevant studies identified.

### Other adverse effects

No relevant studies identified.

### 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

Dispose of container in accordance with all applicable local and national regulations.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:

Individuals must be certified as Hazardous Material Shipper for all transportation modes. Pressurized Fire Extinguishers are considered a hazardous material by the US Department of Transportation and Transport Canada.

**DOT CFR 172.101 Data** Fire extinguishers, 2.2, UN1044

**UN Proper Shipping Name** Fire extinguishers

UN Class (2.2)
UN Number UN1044
UN Packaging Group Not applicable

Classification for AIR Consult current IATA Regulations prior to shipping by air.

Transportation (IATA)

Classification for Water Consult current IMDG Regulations prior to shipping by water.

**Transport IMDG** 

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of "Limited Quantity" as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water.

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

### 15. REGULATORY INFORMATION

### **United States TSCA Inventory**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

### Canada DSL Inventory

All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization: Pressurized

Gas under pressure

SARA Title III Sect. 311/312 Categorization: Non-pressurized

None

### SARA Title III Sect. 313

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.



Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

### 16. OTHER INFORMATION

**NFPA Ratings** 

NFPA Code for Health - 1 NFPA Code for Flammability - 0 NFPA Code for Reactivity - 0 NFPA Code for Special Hazards - None

.....

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: December 10, 2019

Replaces: May 31, 2019

Changes made: Update to Sections 3 and 9.

### Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Kidde Residential & Commercial assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.



1. Identification

15-112 **Product identifier** 

Other means of identification

SDS-00039 SDS number 15-112 **Product code** 

Conduit Threading Oil Recommended use

None known. **Recommended restrictions** 

Manufacturer/Importer/Supplier/Distributor information

ABB Installation Products Inc. Company name

**Address** 860 Ridge Lake Blvd.

Memphis, TN 38120

US

901-252-5000 ext.8324 Telephone

E-mail Not available.

**Emergency phone number** CHEMTREC - 24 HOURS: +1 703-741-5970

1. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

**Hazard symbol** None. None. Signal word

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. **Storage** 

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 2. Composition/information on ingredients

### **Mixtures**

Chemical name	CAS number	%
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	> 60

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

### 3. First-aid measures

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

Skin contact Wash off with soap and water. In case of rashes, wounds or other skin disorders: Seek medical

attention and bring along these instructions.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

15-112 SDS US 931582 1/6 Version: D Revision date: 05-November-2018

Most important symptoms/effects, acute and

delayed

temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

**General information** 

media

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause

### 4. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Will burn if involved in a fire.

### 5. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. In case of spills, beware of slippery floors and surfaces. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 6. Handling and storage

Precautions for safe handling

Avoid inhalation of oil mist and contact with skin and eyes. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 7. Exposure controls/personal protection

### Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy	PEL	5 mg/m3	Mist.

### **US. ACGIH Threshold Limit Values**

paraffinic (CAS 64742-54-7)

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.	

US. NIOSH: Pocket Guide to Che Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy	STEL	10 mg/m3	Mist.
paraffinic (CAS 64742-54-7)			

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 Components
 Type
 Value
 Form

 TWA
 5 mg/m3
 Mist.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

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

supplier.

Skin protection

Other Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

### 8. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.ColorTan.

Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point > 400 °F
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.90

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

inot available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity250 SUS @ 100 °F

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Other information

Density 7.5 lbs/gal Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

### 9. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Concentrated oxygen Sodium hypochlorite. Calcium hypochlorite. Nitrites.

Hazardous decomposition

products

Nitrosamines.

### 10. Toxicological information

### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

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

temporary irritation. Defatting of the skin.

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Not applicable. Carcinogenicity

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### NTP Report on Carcinogens

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

Prolonged inhalation may be harmful. Chronic effects

**Further information** The harmful effects may increase in used oil.

### 11. 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.

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

15-112 SDS US 4/6 931582 Version: D Revision date: 05-November-2018

Bioaccumulative potential No data available.

Mobility in soilExpected to be slightly to moderately mobile in soil.Other adverse effectsOil spills are generally hazardous to the environment.

### 12. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 13. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

### 14. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

### **US state regulations**

**US. Massachusetts RTK - Substance List** 

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

### **US. Rhode Island RTK**

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Inventory name

### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

On inventory (yes/no)\*

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

### International Inventories

Country(s) or region

		, ( <b>,</b> )
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### 15. Other information, including date of preparation or last revision

Issue date 17-December-2015 05-November-2018 **Revision date** 

Version D Health: 1 **HMIS®** ratings

Flammability: 1 Physical hazard: 0

NFPA ratings



### Disclaimer

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



Material Name: Diesel Fuel, All Types

SDS No. 9909 US GHS

Synonyms: Ultra Low Sulfur Diesel; Low Sulfur Diesel; No. 2 Diesel; Motor Vehicle Diesel Fuel; Non-

Road Diesel Fuel; Locomotive/Marine Diesel Fuel

# \* \* \* Section 1 - Product and Company Identification \* \* \*

### **Manufacturer Information**

Hess Corporation 1 Hess Plaza Woodbridge, NJ 07095-0961 Phone: 732-750-6000 Corporate EHS Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

### \* \* \* Section 2 - Hazards Identification \* \* \*

### **GHS Classification:**

Flammable Liquids - Category 3

Skin Corrosion/Irritation - Category 2

Germ Cell Mutagenicity - Category 2

Carcinogenicity - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)

Aspiration Hazard - Category 1

Hazardous to the Aquatic Environment, Acute Hazard - Category 3

# GHS LABEL ELEMENTS

### Symbol(s)







### Signal Word

**DANGER** 

### **Hazard Statements**

Flammable liquid and vapor.

Causes skin irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.

### **Precautionary Statements**

### **Prevention**

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

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### Material Name: Diesel Fuel, All Types

**SDS No. 9909** 

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

Wash hands and forearms thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing fume/mist/vapours/spray.

### Response

In case of fire: Use water spray, fog or foam to extinguish.

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

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 local/regional/national/international regulations.

# \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
68476-34-6	Fuels, diesel, no. 2	100
91-20-3	Naphthalene	<0.1

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher.

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

### First Aid: 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.

### First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and the area of the body burned.

### First Aid: 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.

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Material Name: Diesel Fuel, All Types SDS No. 9909

### First Aid: 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.

# \* \* \* Section 5 - Fire Fighting Measures \* \* \*

### **General Fire Hazards**

See Section 9 for Flammability Properties.

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.

### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

### **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, and other gaseous agents.

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.

### **Unsuitable Extinguishing Media**

None

### Fire Fighting Equipment/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.

### \* \* \* Section 6 - Accidental Release Measures \* \* \*

### **Recovery and Neutralization**

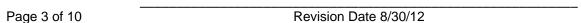
Carefully contain and stop the source of the spill, if safe to do so.

### **Materials and Methods for Clean-Up**

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.

### **Emergency Measures**

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.



Material Name: Diesel Fuel, All Types SDS No. 9909

### **Personal Precautions and Protective Equipment**

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

### **Environmental Precautions**

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.

### **Prevention of Secondary Hazards**

None

# \* \* \* Section 7 - Handling and Storage \* \* \*

### **Handling Procedures**

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

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 Procedures**

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."

### **Incompatibilities**

Keep away from strong oxidizers.

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

### **Component Exposure Limits**

Fuels, diesel, no. 2 (68476-34-6)

ACGIH: 100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)

Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

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SDS No. 9909 Material Name: Diesel Fuel, All Types

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA 15 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 10 ppm TWA; 50 mg/m3 TWA NIOSH: 10 ppm TWA; 50 mg/m3 TWA 15 ppm STEL; 75 mg/m3 STEL

### **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

### Personal Protective Equipment: Respiratory

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.

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.

### **Personal Protective Equipment: Hands**

Gloves constructed of nitrile, neoprene, or PVC are recommended.

### **Personal Protective Equipment: Eyes**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### Personal Protective Equipment: Skin and Body

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.

# Section 9 - Physical & Chemical Properties

Appearance: Clear, straw-yellow. Mild, petroleum distillate odor Odor:

Physical State: Liquid pH: ND **Vapor Pressure:** 0.009 psia @ 70 °F (21 °C) Vapor Density: >1.0 **Boiling Point:** 320 to 690 °F (160 to 366 °C) Melting Point: ND

Solubility (H2O): Negligible **Specific Gravity:** 0.83-0.876 @ 60°F (16°C)

**Evaporation Rate:** Slow; varies with conditions VOC: Octanol/H2O Coeff.: ND Percent Volatile: 100% Flash Point: >125 °F (>52 °C) minimum Flash Point Method: PMCC

Lower Flammability Limit 0.6 **Upper Flammability Limit** 7.5 (UFL): (LFL):

> Burning Rate: ND Auto Ignition: 494°F (257°C)

# **Section 10 - Chemical Stability & Reactivity Information**

### **Chemical Stability**

This is a stable material.

### **Hazardous Reaction Potential**

Will not occur.

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Material Name: Diesel Fuel, All Types SDS No. 9909

### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

### **Incompatible Products**

Keep away from strong oxidizers.

### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

\* \* \* Section 11 - Toxicological Information \* \* \*

### **Acute Toxicity**

### A: General Product Information

Harmful if swallowed.

### B: Component Analysis - LD50/LC50

### Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

### Potential Health Effects: Skin Corrosion Property/Stimulativeness

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

### Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

### **Potential Health Effects: Ingestion**

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.

### Potential Health Effects: 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.

### Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

### Generative Cell Mutagenicity

This material has been positive in a mutagenicity study.

### Carcinogenicity

### A: General Product Information

Suspected of causing cancer.

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### Material Name: Diesel Fuel, All Types

SDS No. 9909

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.

### **B: Component Carcinogenicity**

Fuels, diesel, no. 2 (68476-34-6)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel

fuel)

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

### Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

### Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

### Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

### Aspiration Respiratory Organs Hazard

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.

# **Section 12 - Ecological Information**

### **Ecotoxicity**

### A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuels, diesel, no. 2 (68476-34-6)

96 Hr LC50 Oncorhynchus mykiss

96 Hr LC50 Oncorhynchus mykiss

**Conditions Test & Species** 

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

Naphthalene (91-20-3)

**Test & Species Conditions** 

96 Hr LC50 Pimephales promelas 5.74-6.44 mg/L

> [flow-through] 1.6 mg/L [flow-

through]

0.91-2.82 mg/L

[static] 96 Hr LC50 Pimephales promelas 1.99 mg/L [static]

### Material Name: Diesel Fuel, All Types

**SDS No. 9909** 

96 Hr LC50 Lepomis macrochirus 31.0265 mg/L

[static]

72 Hr EC50 Skeletonema costatum
48 Hr LC50 Daphnia magna
2.16 mg/L
48 Hr EC50 Daphnia magna
1.96 mg/L [Flow

through]

48 Hr EC50 Daphnia magna 1.09 - 3.4 mg/L

[Static]

### Persistence/Degradability

No information available.

### Bioaccumulation

No information available.

### **Mobility in Soil**

No information available.

# \* \* \* Section 13 - Disposal Considerations \* \* \*

### **Waste Disposal Instructions**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

### **Disposal of Contaminated Containers or Packaging**

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

# \* \* \* Section 14 - Transportation Information \* \* \*

### **DOT Information**

Shipping Name: Diesel Fuel

NA #: 1993 Hazard Class: 3 Packing Group: III

Placard:



# \* \* \* Section 15 - Regulatory Information \* \* \*

### **Regulatory Information**

### **Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

### Naphthalene (91-20-3)

CERCLA: 100 lb final RQ; 45.4 kg final RQ

### SARA Section 311/312 - Hazard Classes

Acute Health Chronic Health Fire Sudden Release of Pressure Reactive

# **Safety Data Sheet**

Material Name: Diesel Fuel, All Types SDS No. 9909

# **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.

#### **State Regulations**

## **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Fuels, diesel, no. 2	68476-34-6	No	No	No	Yes	No	No
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

# **Additional Regulatory Information**

# **Component Analysis - Inventory**

Component	CAS#	TSCA	CAN	EEC
Fuels, diesel, no. 2	68476-34-6	Yes	DSL	EINECS
Naphthalene	91-20-3	Yes	DSL	EINECS

# **Section 16 - Other Information**

**NFPA® Hazard Rating** 

1 Health 2 Fire

Reactivity



**HMIS® Hazard Rating** 

Health

Fire

Slight

2 Moderate

Minimal Physical

\*Chronic

# **Safety Data Sheet**

Material Name: Diesel Fuel, All Types SDS No. 9909

# Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

#### Literature References

None

#### 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

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# USG

# SAFETY DATA SHEET

#### 1. Identification

Product identifier DUROCK® Cement Board (with or without EdgeGuard™)

Other means of identification

**SDS number** 14000010001

Synonyms Cement Underlayment Board, Cement Panels

Recommended use Interior or exterior use.

**Recommended restrictions**Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street

Chicago, Illinois 60661-3637

 Telephone
 1-800-874-4968

 Website
 www.usg.com

 Emergency phone number
 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1
Carcinogenicity Category 1A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May

cause cancer. May cause respiratory irritation.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and

keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center/doctor.

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

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

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#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Portland cement	65997-15-1	< 50
Fly ash	68131-74-8	< 20
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	< 10
Perlite	93763-70-3	< 10
Continuous filament glass fiber	65997-17-3	< 5
npurities		
Chemical name	CAS number	%
Crystalline silica (Quartz)	14808-60-7	< 0.7

Composition comments

Occupational Exposure Limits for impurities are listed in Section 8. All concentrations are in percent by weight.

Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.7%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

#### 4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move

injured person into fresh air and keep person calm under observation. Get medical attention if

symptoms persist.

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or Skin contact

persists.

Eye contact Dust in eyes: Flush with cold tap water for at least 15 minutes. If irritation persists, seek medical

attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

May cause chemical eye burns. Permanent eye damage including blindness could result. Dust Most important may cause skin, eye, throat and respiratory system irritation and cause coughing.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

**General information** Ensure that medical personnel are aware of the material(s) involved.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters Use fire-extinguishing media appropriate for surrounding materials.

Provide general supportive measures and treat symptomatically.

Not applicable.

Not a fire hazard.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

Fire fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods Cool material exposed to heat with water spray and remove it if no risk is involved.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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See Section 8 of the SDS for Personal Protective Equipment.

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Methods and materials for containment and cleaning up

No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

**Environmental precautions** 

Avoid discharge to drains, sewers, and other water systems.

# 7. Handling and storage

Precautions for safe handling

Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store all DUROCK© Panels flat. Store in an enclosed materials shelter providing protection from damage and exposure to the elements.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	ubstances (29 CFR 1910.1001-1053) Type	Value	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits for Air C			
Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Portland cement (CAS 65997-15-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1	_	Mat.	Fa
Components	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
,		2.4 mppcf	Respirable.
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Portland cement (CAS 65997-15-1)	TWA	50 mppcf	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Continuous filament glass fiber (CAS 65997-17-3)	TWA	1 fibers/cm3	Respirable fibers (lengtl > 5 µm & aspect ratio ≥ 3:1)
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Portland cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Chemic	cal Hazards		
Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS	TWA	5 mg/m3	Respirable.
13397-24-5)			

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Components	Туре	Value	Form
Continuous filament glass fiber (CAS 65997-17-3)	TWA	3 fibers/cm3	Respirable fibers (≤ 3.5 µm in diameter & ≥ 10 µm in length)
		3 fibers/cm3	Fibrous dust.
		5 mg/m3	Fiber, total
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Portland cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
•		10 mg/m3	Total

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide sufficient ventilation for operations causing dust formation. Observe occupational

exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Wear approved safety goggles. Eye/face protection

Skin protection

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin Hand protection

contact use suitable protective gloves.

Skin protection

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use. None.

Thermal hazards

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid. **Form** Board. Color Gray.

Odor Low to no odor. Odor threshold Not applicable.

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Melting point/freezing point Not applicable. Initial boiling point and boiling Not applicable.

range

Flash point Not applicable. **Evaporation rate** Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Flammability (solid, gas)

Not applicable.

Not applicable.

(%)

Flammability limit - upper

Not applicable.

Explosive limit - lower (%) Not applicable.

**DUROCK®** Cement Board SDS US 917305 Version #: 02 4/8 Revision date: 11-April-2018

e: 05-March-2014

Explosive limit - upper (%) Not applicable. Vapor pressure Not applicable. Vapor density Not applicable. Relative density 0.8 - 1.2 (H2O=1)

Solubility(ies)

Insoluble. Solubility (water) Partition coefficient Not applicable.

(n-octanol/water)

Not applicable. **Auto-ignition temperature Decomposition temperature** Not applicable. Not applicable. Viscosity

Other information

**Bulk density** 60 - 65 lb/ft3 Not explosive. **Explosive properties Oxidizing properties** Not oxidizing

0 % VOC

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Calcium oxides. Sulfur oxides.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne

respirable crystalline silica can cause silicosis and/or lung cancer.

Skin contact Dust can be irritating to skin. Eye contact Causes serious eye damage.

Ingestion Ingestion may cause irritation and stomach discomfort.

Symptoms related to the physical, chemical and toxicological characteristics May cause chemical eye burns. Permanent eye damage or blindness could result. Dust may

irritate eyes, skin, throat and upper respiratory system and cause coughing.

#### Information on toxicological effects

Not expected to be a hazard under normal conditions of intended use. Acute toxicity

Skin corrosion/irritation Causes skin irritation. Dust can cause skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Respiratory sensitization Not a sensitizer.

Skin sensitization Trace amounts of Cr(VI) compounds from Portland Cement may cause allergic skin reaction even

after one exposure.

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

mutagenic or genotoxic.

Repeated and prolonged exposure to high levels of respirable crystalline silica may cause cancer. Carcinogenicity

# IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

**DUROCK® Cement Board** SDS US 05-March-2014

917305 Version #: 02 Revision date: 11-April-2018 Issue date OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (Quartz) (CAS 14808-60-7)

Not expected to be a reproductive hazard. Reproductive toxicity

Specific target organ toxicity -

May cause respiratory irritation.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified. For detailed information, see section 16.

**Aspiration hazard** Due to the physical form of the product it is not an aspiration hazard.

**Chronic effects** Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to

the lung disease known as silicosis. Some studies show excess numbers of cases of

scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be

monitored and controlled.

12. Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

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

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

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

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soil No data available. Other adverse effects None expected.

13. Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (Quartz) (CAS 14808-60-7) Cancer

**DUROCK® Cement Board** SDS US

917305 Version #: 02 Revision date: 11-April-2018 lung effects immune system effects kidney effects

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Skin corrosion or irritation

Serious eye damage or eye irritation categories

Yes

Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Crystalline silica (Quartz) (CAS 14808-60-7)

Perlite (CAS 93763-70-3)

Portland cement (CAS 65997-15-1)

Triethanolamine (CAS 102-71-6)

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

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Crystalline silica (Quartz) (CAS 14808-60-7)

Perlite (CAS 93763-70-3)

Portland cement (CAS 65997-15-1)

Triethanolamine (CAS 102-71-6)

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

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Crystalline silica (Quartz) (CAS 14808-60-7)

Perlite (CAS 93763-70-3)

Portland cement (CAS 65997-15-1)

Triethanolamine (CAS 102-71-6)

#### **US. Rhode Island RTK**

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Continuous filament glass fiber (CAS 65997-17-3)

Crystalline silica (Quartz) (CAS 14808-60-7)

Portland cement (CAS 65997-15-1)

Triethanolamine (CAS 102-71-6)

## **California Proposition 65**



**WARNING:** This product can expose you to chemicals including Crystalline silica (Quartz), which is known to

the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (Quartz) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Continuous filament glass fiber (CAS 65997-17-3)

Crystalline silica (Quartz) (CAS 14808-60-7)

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Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

02

Issue date 05-March-2014
Revision date 11-April-2018

Version #

**Further information** 

Crystalline silica: Raw materials in this product contain respirable crystalline silica as an impurity. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

The International Agency for Research on Cancer (IARC) in June, 1987, categorized continuous filament glass fibers as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fiber as a possible, probable, or confirmed cancer causing material.

The ACGIH has established a TLV (Threshold Limit Value or recommended exposure limit) for continuous filament glass fiber of 1 fiber per cubic centimeter of air for respirable fibers and 5 mg per cubic meter of air for inhalable glass fiber dust. These levels were established to prevent mechanical irritation of the upper airways. IARC, NTP (US National Toxicology Program) and OSHA (US Occupational Safety and Health Administration) do not list continuous filament glass fibers as a carcinogen.

As manufactured, continuous filament glass fibers in this product are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

NFPA Ratings: Health: 2 Flammability: 0 Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings



Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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# **Safety Data Sheet**

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This Safety Data Sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

 Document Group:
 08-7081-6
 Version Number:
 8.00

 Issue Date:
 08/22/14
 Supercedes Date:
 09/22/05

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M BRAND ELECTRICAL TAPE 23

# **Product Identification Numbers**

 $\begin{array}{l} \text{HT-0020-0002-0, HT-0020-0003-8, HT-0020-0012-9, HT-0020-0013-7, HT-0020-0014-5, HT-0020-0018-6, HT-0020-0109-3} \end{array}$ 

## 1.2. Recommended use and restrictions on use

#### Recommended use

Electrical Tape.

# 1.3. Supplier's details

MANUFACTURER: 3M DIVISION: 3M Brazil

**Electrical Markets Division** 

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

# 1.4. Emergency telephone number

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

# **SECTION 2: Hazard identification**

#### 2.1. Hazard classification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

# Signal word

Not applicable.

**Symbols** 

Not applicable.

#### **Pictograms**

Not applicable.

# 2.3. Hazards not otherwise classified

None.

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

Ingredient	C.A.S. No.	% by Wt
SYNTHETIC RUBBER	9003-27-4	10 - 30
TALC	14807-96-6	20 - 30
SYNTHETIC RUBBER	25038-36-2	15 - 25
POLYPROPYLENE	9003-07-0	5 - 15
Paraffin Oils	8012-95-1	1 - 10
PIPERYLENE-2-METHYL-2-BUTENE POLYMER	26813-14-9	1 - 10
SYNTHETIC RUBBER	9003-29-6	1 - 10
CARBON BLACK	1333-86-4	1 - 5
MIXTURE OF POLYPROPYLENE RESIN, CARBON	Unknown	1 - 5
BLACK AND ZINC STEARATE		
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-	2082-79-3	0.1 - 1
HYDROXY-, OCTADECYL ESTER		

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **Inhalation:**

No need for first aid is anticipated.

#### **Skin Contact:**

No need for first aid is anticipated.

# **Eye Contact:**

No need for first aid is anticipated.

#### If Swallowed:

No need for first aid is anticipated.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

# 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

# 6.2. Environmental precautions

Not applicable.

# 6.3. Methods and material for containment and cleaning up

Not applicable.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

# 7.2. Conditions for safe storage including any incompatibilities

Not applicable.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
CARBON BLACK	1333-86-4	ACGIH	TWA(inhalable fraction):3	A3: Confirmed animal
			mg/m3	carcin.
CARBON BLACK	1333-86-4	CMRG	TWA:0.5 mg/m3	
CARBON BLACK	1333-86-4	OSHA	TWA:3.5 mg/m3	
TALC	14807-96-6	ACGIH	TWA(respirable fraction):2 A4: Not class. as	
			mg/m3	carcin
TALC	14807-96-6	CMRG	TWA(as respirable dust):0.5	
			mg/m3	
TALC	14807-96-6	OSHA	TWA concentration(as total	
			dust):0.3 mg/m3;TWA	
			concentration(respirable):0.1	
			mg/m3(2.4 millions of	
			particles/cu. ft.);TWA:20	
			millions of particles/cu. ft.	
HYDROCINNAMIC ACID, 3,5-	2082-79-3	CMRG	TWA:10 mg/m3	
DI-TERT-BUTYL-4-				
HYDROXY-, OCTADECYL				
ESTER				
Paraffin Oils	8012-95-1	CMRG	TWA(as mist):0.5	
			mg/m3;STEL(as mist):10	
			mg/m3	
Paraffin Oils	8012-95-1	OSHA	TWA(as mist):5 mg/m3	
POLYPROPYLENE	9003-07-0	CMRG	TWA(as respirable dust):5	
			mg/m3;TWA(as total dust):10	

mg/m3

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Not applicable.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Eye protection not required.

# Skin/hand protection

No chemical protective gloves are required.

# **Respiratory protection**

Respiratory protection is not required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

General Physical Form:
Solid
Specific Physical Form:
Roll of Tape
Odor, Color, Grade:
Black

Odor threshold Not Applicable Not Applicable pΗ No Data Available **Melting point Boiling Point** Not Applicable **Flash Point** Not Applicable **Evaporation rate** Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Not Applicable Flammable Limits(UEL) Not Applicable **Vapor Pressure** Not Applicable **Vapor Density Specific Gravity** Not Applicable Solubility In Water Not Applicable Solubility- non-water Not Applicable Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** Not Applicable Viscosity Not Applicable **Volatile Organic Compounds** No Data Available **VOC Less H2O & Exempt Solvents** No Data Available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

# **SECTION 11: Toxicological information**

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

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

# Inhalation:

No health effects are expected.

#### **Skin Contact:**

No health effects are expected.

# **Eye Contact:**

No health effects are expected.

#### **Ingestion:**

No health effects are expected.

# **Carcinogenicity:**

|--|

CARBON BLACK 1333-86-4 Grp. 2B: Possible human card	c. International Agency for Research on Cancer
---	--

# **Additional Information:**

This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

# **Toxicological Data**

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

**Acute Toxicity** 

Name	Route	Species	Value
		Species	1 11 11 11
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
TALC	Dermal		LD50 Not available
TALC	Ingestion		LD50 Not available
SYNTHETIC RUBBER	Dermal		LD50 estimated to be > 5,000 mg/kg
SYNTHETIC RUBBER	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
SYNTHETIC RUBBER	Ingestion	Rat	LD50 > 2,000 mg/kg
POLYPROPYLENE	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYPROPYLENE	Ingestion	Mouse	LD50 > 8,000 mg/kg
PIPERYLENE-2-METHYL-2-BUTENE POLYMER	Ingestion	Rat	LD50 > 2,000 mg/kg
Paraffin Oils	Dermal		LD50 estimated to be > 5,000 mg/kg
Paraffin Oils	Ingestion	Rat	LD50 > 24,000 mg/kg
SYNTHETIC RUBBER	Dermal	Rat	LD50 > 10,250 mg/kg
SYNTHETIC RUBBER	Ingestion	Rat	LD50 > 34,600 mg/kg
CARBON BLACK	Dermal	Rabbit	LD50 > 3,000 mg/kg
CARBON BLACK	Ingestion	Rat	LD50 > 8,000 mg/kg
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-	Dermal	Rat	LD50 > 2,000 mg/kg
HYDROXY-, OCTADECYL ESTER			
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-	Inhalation-	Rat	LC50 > 1.8 mg/l
HYDROXY-, OCTADECYL ESTER	Dust/Mist		
	(4 hours)		
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-	Ingestion	Rat	LD50 > 5,000 mg/kg
HYDROXY-, OCTADECYL ESTER			

ATE = acute toxicity estimate

# **Skin Corrosion/Irritation**

Name	Species	Value
TALC	Rabbit	No significant irritation
SYNTHETIC RUBBER		No significant irritation
SYNTHETIC RUBBER	Rabbit	No significant irritation
POLYPROPYLENE	Human	No significant irritation
	and	
	animal	
PIPERYLENE-2-METHYL-2-BUTENE POLYMER		No significant irritation
SYNTHETIC RUBBER	Rabbit	Minimal irritation
CARBON BLACK	Rabbit	No significant irritation
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-HYDROXY-,	Rabbit	Minimal irritation
OCTADECYL ESTER		

**Serious Eye Damage/Irritation** 

Serious Lye Damage/IIIItation		
Name	Species	Value
TALC	Rabbit	No significant irritation
SYNTHETIC RUBBER		No significant irritation
SYNTHETIC RUBBER	Rabbit	No significant irritation
POLYPROPYLENE		No significant irritation
SYNTHETIC RUBBER	Rabbit	Mild irritant
CARBON BLACK	Rabbit	No significant irritation
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-HYDROXY-,	Rabbit	Mild irritant
OCTADECYL ESTER		

#### **Skin Sensitization**

Name	Species	Value
POLYPROPYLENE	Human	Not sensitizing
	and	
	animal	
PIPERYLENE-2-METHYL-2-BUTENE POLYMER		Not sensitizing
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-HYDROXY-,	Human	Some positive data exist, but the data are not
OCTADECYL ESTER	and	sufficient for classification
	animal	

**Respiratory Sensitization** 

Name	Species	Value
TALC	Human	Not sensitizing

**Germ Cell Mutagenicity** 

oerm cen widtagemeny		
Name	Route	Value
TALC	In Vitro	Not mutagenic
TALC	In vivo	Not mutagenic
CARBON BLACK	In Vitro	Not mutagenic
CARBON BLACK	In vivo	Some positive data exist, but the data are not sufficient for classification
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-HYDROXY-, OCTADECYL ESTER	In Vitro	Not mutagenic
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-HYDROXY-, OCTADECYL ESTER	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
TALC	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification
POLYPROPYLENE	Not	Rat	Some positive data exist, but the data are not
	Specified		sufficient for classification
CARBON BLACK	Dermal	Mouse	Not carcinogenic
CARBON BLACK	Ingestion	Mouse	Not carcinogenic
CARBON BLACK	Inhalation	Rat	Carcinogenic
HYDROCINNAMIC ACID, 3,5-DI-TERT-BUTYL-4-	Ingestion	Mouse	Not carcinogenic
HYDROXY-, OCTADECYL ESTER			

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
TALC	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	Not toxic to female reproduction	Rat	NOAEL 421 mg/kg/day	2 generation
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	Not toxic to male reproduction	Rat	NOAEL 375 mg/kg/day	2 generation
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 421 mg/kg/day	2 generation

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration

TALC	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
TALC	Inhalation	pulmonary fibrosis   respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 18 mg/m3	113 weeks
SYNTHETIC RUBBER	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.07 mg/l	2 weeks
SYNTHETIC RUBBER	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.7 mg/l	2 weeks
CARBON BLACK	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	heart   endocrine system   respiratory system	All data are negative	Rat	NOAEL 300 mg/kg/day	28 days
HYDROCINNAMIC ACID, 3,5-DI-TERT- BUTYL-4-HYDROXY-, OCTADECYL ESTER	Ingestion	hematopoietic system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days

#### **Aspiration Hazard**

<u> </u>	
Name	Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

# **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. Prior to disposal, consult all applicable authorities and regulations to insure proper classification.

EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit <a href="http://3M.com/Transportinfo">http://3M.com/Transportinfo</a> or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

Contact 3M for more information.

# 311/312 Hazard Categories:

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

# 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

# 15.4. International Regulations

Contact 3M for more information.

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

# **SECTION 16: Other information**

#### **NFPA Hazard Classification**

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

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

 Document Group:
 08-7081-6
 Version Number:
 8.00

 Issue Date:
 08/22/14
 Supercedes Date:
 09/22/05

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Product name:ERICO® CADWELD® Electrical Welding MaterialPage:1/13Supersedes date:2016-05-02Revision:2016-11-22SDS-ID:CADWELD\_EWM\_USVersion number:US-EN/3.5

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product name: ERICO® CADWELD® Electrical Welding Material

Inclusive of material types: F20, F80, F33, XF19, F76 Applicable prefixes: CA, SB, PB, XL, XF, ACB, ACC

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

Application: Exothermic Welding material

Details of the supplier of the safety data sheet

<u>Manufacturer</u> PENTAIR

**ERICO International Corporation** 

34600 Solon Road Solon, Ohio 44139 Tel:(440) 248-0100

Further information can be

obtained from:

Amy.Lucia@Pentair.com

**Emergency telephone number** 

Emergency telephone: Chemtel

1-800-255-3924 USA

+01-813-248-0585 International

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#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA 2012: Acute Oral Toxicity Category 4

#### **Label elements**



WARNING

H302 Harmful if swallowed.

P260 Do not breathe dust/fume

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local regulations.

P330 Rinse mouth.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Other hazards

Other: Improper use of the product or inadequate preparation of the conductors, molds

or surroundings can result in aggressive reactions. Self-propagating high temperature reaction will occur if heated above ignition temperature. Generates molten metal in excess of 1370°C, slag and dense, dusty smoke. The molten product can cause serious burns. Inhalation of powder or fumes may cause metal

fume fever. Exposure to reaction by-products: See section 8.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Mixtures**

Only classified substances above threshold limits are shown.

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#### OSHA 2012:

<u>%:</u>	CAS-No.:	EC No.:	Chemical name:	Hazard classification:	Notes:
25-85	1317-39-1	215-270-7	Cuprous oxide	Combustible Dust Acute Oral Toxicity Category 4	
1-30	1317-38-0	215-269-1	Cupric oxide	Acute (Oral) Toxicity Category 4	
1-30	7440-50-8	231-159-6	Copper	Combustible Dust Acute (Oral) Toxicity Category 4	
1-20	7429-90-5	231-072-3	Aluminium powder (stabilised)	Flammable solid Category 1 Water reactive Category 2 Skin Irritation Category 2 Eye Irritation Category 2A STOT Single Exposure Category 3	

References: The full text for all hazard statements is displayed in section 16.

#### **SECTION 4: FIRST AID MEASURES**

#### **Description of first aid measures**

Molten product will cause skin burns and if in contact with eyes while in a molten state may cause serious damage.

Inhalation: Inhalation of welding fumes/Dust inhalation: Move into fresh air and keep at rest.

In case of persistent throat irritation or coughing: Seek medical attention and

bring these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. If material is

hot, treat for thermal burns and get immediate medical attention.

Eye contact: Dust in the eyes: Do not rub eye. Immediately flush with plenty of water for up to

15 minutes. Remove any contact lenses and open eyelids widely. If irritation

persists: Seek medical attention and bring these instructions.

<u>Ingestion:</u> Immediately rinse mouth and drink plenty of water. Keep person under

observation. If person becomes uncomfortable seek hospital and bring these

instructions.

# Most important symptoms and effects, both acute and delayed

Symptoms/effects: Inhalation of powder or fumes may cause metal fume fever. Symptoms like

headache, fatigue and nausea may appear. See section 11 for more detailed

information on health effects and symptoms.

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

Medical attention/treatments: Burns (in contact with molten metal, slag or hot equipment): Flush with water

immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

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#### **SECTION 5: FIREFIGHTING MEASURES**

#### Extinguishing media

Extinguishing media: Extinguish with dry sand and/or flood with large amounts of water.

Extinguishing media which are not suitable: Hand water buckets or hand storage pumps. Molten metal contact with water can cause small pockets of superheated steam.

Use fire-extinguishing media appropriate for surrounding materials.

#### Special hazards arising from the substance or mixture

Specific hazards: During fire, health hazardous gases may be formed.

Ignition temperature: >1750°F

In the event that the packaging materials are ignited, the immediate and direct application of large quantities of water will effectively eliminate the spread of fire to the surrounding areas. The ignition of the packaging materials may, in rare cases, lead to ignition. Direct application of a continuous heavy stream of water is

recommended.

Ignition of large quantities of exothermic materials may result in large volumes of dense smoke.

**Advice for firefighters** 

Protective equipment for fire-

fighters:

Selection of respiratory protection for fire fighting: follow the general fire

precautions indicated in the workplace.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

<u>Personal precautions:</u> Avoid inhalation of dust. Do not breathe fumes. Avoid contact with skin and eyes.

Follow precautions for safe handling described in this safety data sheet.

Remove sources of ignition. Ventilate well.

#### **Environmental precautions**

Environmental precautions:

Precaution should be taken to prevent hot material and reaction byproducts from contact with combustible materials in surrounding areas. Avoid spreading dust or contaminated materials. Avoid discharge to the aquatic environment. Contact

local authorities in case of spillage to drain/aquatic environment.

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

Spill Cleanup Methods: Remove sources of ignition. Sweep up spilled substance and remove to safe

olace.

For large spills use natural fiber brush or broom with a conductive, non-sparking

pan.

#### Reference to other sections

<u>References:</u> For personal protection, see section 8. For waste disposal, see section 13.

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#### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for safe handling

Safe handling advice: Avoid inhalation of dust. Do not breathe fumes. Avoid contact with skin and eyes.

> Observe good chemical hygiene practices. ERICO CADWELD Exothermic Welding Materials and Filler Materials are designed for use in ERICO CADWELD equipment only. Use of improper or damaged equipment can lead to exposure to

molten metal and reaction byproducts.

Technical measures: Do not smoke or use open fire or other sources of ignition. Work practice should

> minimize risk of contact. All product instructions should be followed to ensure proper welding and safety. For additional information, see American National

Standard, Safety In Welding And Cutting, and Z49.1.

<u>Technical precautions:</u> Confined space: Local exhaust is recommended.

#### Conditions for safe storage, including any incompatibilities

storage:

and secure location. Storage should include provisions to minimize rough handling, excessive vibration and physical abuse. All outer packages must be

stored in accordance with label markings.

Storage conditions: If evidence is present of damaged or contaminated products, these units should

not be used.

If proper storage is maintained, ERICO CADWELD Materials do not exhibit any

storage or shelf life.

Specific end use(s)

Specific use(s): Welding material

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

A detailed fume analysis was conducted on ERICO CADWELD Electrical Welding Materials. Reactions byproducts were tested for total dust, respirable dust, metals, acids, fluorides, and various elements identified in typical welding fume analysis. All sampling and analysis followed methodologies dictated by the National Institute of Occupational Safety and Health (NIOSH) and by the Occupational Safety and Health Administration (OSHA). A certified Industrial Hygienist did the sample collection and independent labs conducted all analytical work.

Data collected was evaluated and compared to limits set by the American Conference of Governmental Industrial Hygienis ts (ACGIH) and OSHA. As a worse case scenario, calculations were completed based on a sealed 800 ft3 room with no ventilation. These calculations would indicate that the copper fume PEL would be the limiting factor. Under normal outdoor use or in ventilated areas threshold limits are beyond any expected exposure limits.

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#### Occupational exposure limits:

CAS-No.:	Chemical name:	As:	Exposure limits:	Type:	Notes:	References :
7429-90-5	Aluminum, metal, respirable fraction	Al	5 mg/m3	TWA	-	OSHA
7429-90-5	Aluminum, metal, total dust	Al	15 mg/m3	TWA	-	OSHA
7429-90-5	Aluminum metal, respirable fraction	-	1 mg/m3	TWA	A4	ACGIH
7440-21-3	Silicon, respirable fraction	-	5 mg/m3	TWA	-	OSHA
7440-21-3	Silicon, total dust	-	15 mg/m3	TWA	-	OSHA
7440-31-5	Tin, metal	Sn	2 mg/m3	TWA	-	ACGIH
7440-50-8	Copper, dusts and mists	Cu	1 mg/m3	TWA	-	OSHA
7440-50-8	Copper dusts and mists	Cu	1 mg/m3	TWA	-	ACGIH
7440-50-8	Copper, fume	Cu	0.1 mg/m3	TWA	-	OSHA
7440-50-8	Copper, fume	-	0.2 mg/m3	TWA	-	ACGIH
-	Fluorides	F	2.5 mg/m3	TWA	-	OSHA
-	Fluorides	F	2.5 mg/m3	TWA	A4; BEI	ACGIH
N1 1						

Notes: A4: Not Classifiable as a Human Carcinogen.

#### **Exposure controls**

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and

minimise the risk of inhalation of dust and fumes.

<u>Personal protection:</u> Personal protection equipment should be chosen according to the relevant

standards and in discussion with the supplier of the personal protective equipment. Use special welding equipment for protection of eyes, skin and

respiratory system.

Respiratory equipment: Normal use precludes use of special protection as material is generally used

out of doors, in small quantities and is of short duration. In case of inadequate ventilation and work of long duration or on large surface areas in confined rooms. Wear suitable respiratory equipment for dusts and metal fumes.

<u>Hand protection:</u> Heat insulated protective gloves. Recommended for handling hot equipment.

Eye protection: Wear goggles/face shield. Avoid direct eye contact with "flash" of light from

reaction.

<u>Skin protection:</u> Use protective clothing, which covers arms and legs.

<u>Hygiene measures:</u> Wash hands after handling. Change contaminated clothing.

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# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Form: Granular.

Color: Gray-black

Odor: Odorless.

pH: Not available.

Melting point / freezing point: 2000°F

Boiling point:

Evaporation rate:

Vapor pressure:

Not relevant.

Not relevant.

Not relevant.

Not relevant.

Solubility: Insoluble in water

Partition coefficient (n- Not available.

octanol/water):

<u>Auto-ignition</u> > 1750°F

temperature (°C):

<u>Decomposition</u> Not available.

temperature (°C):

<u>Viscosity:</u> Not relevant.

<u>Explosive properties:</u> Not available.

<u>Oxidizing properties:</u> Not available.

Other information

Other data: SPECIFIC GRAVITY (water=1): 5.5

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# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Reactivity: See hazardous reactions.

**Chemical stability** 

Stability: Stable. Not sensitive to vibrations, shock or impact and is not subject to

spontaneous ignition.

Possibility of hazardous reactions

<u>Hazardous Reactions:</u> Aggressive reactions are possible if excess moisture is present in the mold or on

the conductors to be welded. Care should be taken to ensure proper preparation

in accordance with instruction prints.

**Conditions to avoid** 

Conditions/materials to avoid: Temperatures above ignition point. 1750°F

**Incompatible materials** 

<u>Incompatible materials:</u> Typical of problems associated with molten metals.

**Hazardous decomposition products** 

<u>Hazardous decomposition</u> None under normal conditions. Polymerization will not occur.

products:

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#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects

Acute Toxicity (Oral): Harmful if swallowed.

Acute Toxicity (Dermal):

Acute Toxicity (Inhalation):

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Respiratory or skin

sensitization:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

<u>Inhalation:</u> Dust may irritate throat and respiratory system and cause coughing. Heating

above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular

pain.

Skin contact: Dust has an irritating effect on moist skin. Prolonged and/or repeated contact:

May cause eczema-like skin disorders (dermatitis). The molten product can

cause serious burns.

<u>Eye contact:</u> Particles/fumes in the eyes may cause discomfort/irritation.

<u>Ingestion:</u> Ingestion may cause nausea, headache, dizziness and intoxication.

Specific effects: Frequent inhalation of dust over a long period of time increases the risk of

developing lung diseases. Copper oxide may by repeated or prolonged inhalation occasionally cause ulceration and perforation of the nasal septum. Long term

exposure to copper containing dusts may cause allergic dermatitis.

This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen

lists.

<u>Toxicological data:</u> LD50 (oral, rat): 1340 mg/kg (Dicopper oxide)

Product name:ERICO® CADWELD® Electrical Welding MaterialPage:10/13Supersedes date:2016-05-02Revision:2016-11-22SDS-ID:CADWELD\_EWM\_USVersion number:US-EN/3.5

# **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** 

Ecotoxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Dicopper oxide: M-factor (acute): 10 Cupric oxide: M-factor (acute): 1

Persistence and degradability

<u>Degradability:</u> The product solely consists of inorganic compounds which are not biodegradable.

**Bioaccumulative potential** 

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: The product is not volatile but may be spread by dust-raising handling.

Results of PBT and vPvB assessment

<u>PBT/vPvB:</u> This product does not contain any PBT or vPvB substances.

Other adverse effects

Other adverse effects: None known.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

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

Product name:ERICO® CADWELD® Electrical Welding MaterialPage:11/13Supersedes date:2016-05-02Revision:2016-11-22SDS-ID:CADWELD\_EWM\_USVersion number:US-EN/3.5

#### **SECTION 14: TRANSPORT INFORMATION**

The product material has been tested by independent facilities in accordance with D.O.T. / U.N. CFR 49 and I.A.T.A. Dangerous Goods Regulations to determine the applicable ratings of this material. Based on the results of this testing, the ERICO CADWELD Electrical Welding Material is not classified as a flammable solid. Due to the minimal quantity present per package, this material and the ERICO CADWELD Electrical Welding Material package is shipped under provisions outlined under D.O.T. / U.N. 49 CFR 171.1 "General Regulations for the Transportation of Hazardous Material" and 173.4 "Exceptions for Small Quantities". All materials are packaged and marked at the factory in full compliance with these regulations.

UN number
-----------

UN-No:

UN proper shipping name

Proper Shipping Name: -

Transport hazard class(es)

<u>Class:</u> -

Packing group

<u>PG:</u> -

**Environmental hazards** 

Marine pollutant: -

Environmentally Hazardous

substance:

Special precautions for user

Special precautions: -

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

<u>Transport in bulk:</u> -

Product name:ERICO® CADWELD® Electrical Welding MaterialPage:12/13Supersedes date:2016-05-02Revision:2016-11-22SDS-ID:CADWELD\_EWM\_USVersion number:US-EN/3.5

#### **SECTION 15: REGULATORY INFORMATION**

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

<u>Special provisions:</u> State and local regulation may apply.

TSCA: The ingredients of this product are on the TSCA Inventory.

SARA Section 302: No SARA Section 313: Yes

NFPA Rating: Health:2 Fire:1 Reactivity:1 Other:-

HMIS Rating: Health:2 Fire:1 Reactivity:1 Personal protection:B

B = Safety Glasses and Gloves.

National regulation: The following lists have been checked:

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and

Health Standards, Air contaminants (OSHA), with amendments.

NIOSH Pocket Guide to Chemical Hazards.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and

Health Standards, Hazard Communication, with amendments.

U.S. Department of health and human services: 2014 - Report on Carcinogens -

13th Edition.

International Agency for Research on Cancer (IARC): IARC Monographs on the

Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health

Organization.

Threshold Limit Values (2015), ACGIH, by the American Conference on

Governmental Industrial Hygienists.

The Code of Federal Regulation. Title 40, part 355.50. Emergency Planning and

Notification.

The Code of Federal Regulation. Title 40, part 372.65. Toxic Chemical Release

Reporting: Community Right to Know.

Product name:ERICO® CADWELD® Electrical Welding MaterialPage:13/13Supersedes date:2016-05-02Revision:2016-11-22SDS-ID:CADWELD\_EWM\_USVersion number:US-EN/3.5

#### **SECTION 16: OTHER INFORMATION**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 3

<u>Abbreviations and acronyms</u> PBT = Persistent, Bioaccumulative and Toxic. <u>used in the safety data sheet:</u> vPvB = very Persistent and very Bioaccumulative.

Water reactive = Substances and Mixtures Which, in Contact with Water, Emit

Flammable Gases.

Additional information: Classification according to HCS 2012: Calculation method.

Wording of H-statements:

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H302 Harmful if swallowed.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : Basement Wall Insulation® - Unfaced, Steel Frame Thermal

and Acoustical Fiberglass Insulation, Spin-Glas® TC EQ, Spin-Glas® TC XG, UMBI®, Unfaced Thermal and Acoustical Fiberglass Insulation, Sound-SHIELD®, Cavity-SHIELD™, ComfortTherm®, Condensation Control Blanket - Unfaced, EasyFit®, Engineered Wood Thermal and Acoustical

Fiberglass Insulation, Foil-Faced Batts, High-Density Blowing Wool, Kraft-Faced Fiberglass Insulation, Manufactured Housing Insulation, Micro-Pak®, Microlite® "L", Multi-Purpose Fiberglass, Pan-Insul®, Panel Deck FSK-25 (FSK Ex. Tab), PEBS Blanket™, Rich-R® Blowing Wool, Sound

**Control Batts** 

Manufacturer or supplier's details

Company : Johns Manville Address : P.O. Box 5108

Denver, CO USA 80127

Telephone : +1-303-978-2000

Emergency telephone : +1-800-4

number

+1-800-424-9300 (CHEMTREC)

Company : Johns Manville Canada Inc.

Address : 5301 42 Avenue

Innisfail, AB Canada T4G 1A2

Telephone : +1-303-978-2000

Emergency telephone

number

+1-800-424-9300 (CHEMTREC)

Prepared by : productsafety@im.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

## Other hazards

Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical nature**

Glass Fiber Product.



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# **Hazardous components**

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

# Relevant ingredients

Chemical name	CAS-No.	Concentration (%)
non-biopersistent (biosoluble) glass fibers	Not Assigned	>= 80 - <= 100 %

#### **SECTION 4. FIRST AID MEASURES**

General advice : Get medical attention if symptoms occur.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Take off all contaminated clothing immediately.

If on skin, rinse well with water.

Get medical attention if irritation develops and persists.

In case of eye contact : In case of eye contact, remove contact lens and rinse

immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

If eye irritation persists, consult a specialist.

If swallowed : If symptoms persist, call a physician.

Rinse mouth with water to remove dust or fibers and drink

plenty of water to help reduce irritation.

Most important symptoms and effects, both acute and

delayed

None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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

Take up mechanically.

containment and cleaning up

Pick up and arrange disposal without creating dust.

# **SECTION 7. HANDLING AND STORAGE**



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Advice on protection against :

fire and explosion

Provide appropriate exhaust ventilation at places where dust

is formed.

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.

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

Stable at normal ambient temperature and pressure.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glass fibers shown to be biosoluble	Not Assigned		1 fibers/cm3	ACGIH
Inert or Nuisance Dust, Particulates Not Otherwise Regulated (PNOR)	Not Assigned	PEL (Total dust)	15 mg/m3	OSHA
		PEL (Respirable fraction)	5 mg/m3	OSHA

As a member of the North American Insulation Manufacturers Association (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 NAIMA's Health and Safety Reference Library (website: http://insulationinstitute.org/tools-resources/resource-library/health-safety/) to find the Product Stewardship Program Pocket Folder (N052) and other Fact Sheets.

# Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.



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# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid

Color : white, cream, brown

Odor : slight

Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : Not applicable

Initial boiling point and boiling

range

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : Not applicable

Solubility(ies)

Water solubility : Not applicable

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Thermal decomposition : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.



## Formaldehyde-free™ Fiberglass Building Insulation

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Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored normally.

Conditions to avoid : No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

IARC No component of this product present at levels greater than or

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

human carcinogen by IARC.

**ACGIH** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

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

by NTP.

#### **Further information**

#### **Product:**

Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### **Product:**

Additional ecological

information

Due to the properties of the product, a hazard to the

environment may not be expected.



## Formaldehyde-free™ Fiberglass Building Insulation

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Disposal of residual product : 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

#### **SECTION 15. REGULATORY INFORMATION**

#### **TSCA list**

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

Chemicals

U.S. Toxic Substances Control Act (TSCA) Section : Not relevant

12(b) Export Notification (40 CFR 707, Subpart D)

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

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

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



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TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

#### **SECTION 16. OTHER INFORMATION**

**Further information** 

Revision Date : 08/23/2019

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.

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## Hilti Firestop Sealant CFS-S SIL SL/GG

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/21/2016 Revision date: 12/21/2016 Supersedes: 12/21/2016 Version: 3.1

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form Mixture

Name Hilti Firestop Sealant CFS-S SIL SL/GG

Product code BU Chemicals

Chemical structure

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

No additional information available

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

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800

1-800-879-8000 toll free - F +1 918 254 0522

#### Supplier

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800

1-800-879-8000 toll free - F +1 918 254 0522

#### Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100 9494 Schaan - Liechtenstein

T +423 234 2111 chemicals.hse@hilti.com

#### 1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

+1 918 8723000 1-800-879-8000 toll free

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Sens. 1 H317 - May cause an allergic skin reaction

Repr. 2 H361 - Suspected of damaging fertility or the unborn child

Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)





GHS08

GHS07

Warning

Signal word (GHS-US) Hazard statements (GHS-US)

H317 - May cause an allergic skin reaction

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H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS-US) P261 - Avoid breathing vapours

P280 - Wear protective gloves, protective clothing, eye protection

P302+P352 - If on skin: Wash with plenty of water

P308+P313 - If exposed or concerned: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

#### 2.3. Other hazards

Other hazards not contributing to the

classification

In use the product releases 2-butanone oxime (methyl ethyl ketoxime; MEKO) (0-24h: <0.2%/h

& 24-48h: <0.02%/h) which vaporises

In cases of prolonged exposure MEKO may damage nasal membranes. If MEKO is inhaled in

large quantities over prolonged periods of time there may be irreversible damage to health: H351: Suspected of causing cancer.

#### 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	%	GHS-US classification
Methyltris(1-methylpropylideneaminooxy)silane	(CAS No) 22984-54-9	2.5 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Titanium dioxide	(CAS No) 13463-67-7	1 - 2.5	Carc. 2, H351
octamethylcyclotetrasiloxane	(CAS No) 556-67-2	0.1 - 1	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if

you feel unwell.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact 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 Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after skin contact May cause an allergic skin reaction.

#### 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 Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 5.3. Advice for firefighters

Protection during firefighting

Self-contained breathing apparatus. Complete protective clothing. Do not attempt to take action

without suitable protective equipment.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapours.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Wear personal protective equipment. Obtain

special instructions before use. Do not handle until all safety precautions have been read and

understood. Avoid contact with skin and eyes. Avoid breathing vapours.

Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product. Contaminated work clothing should not be

allowed out of the workplace.

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

Storage conditions Keep cool. Store in a dry place. Store locked up. Store in a well-ventilated place.

Storage temperature 41 - 77 °F

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Methyltris	(1-methylpror	ylideneaminooxy	v)silane	(22984-54-9)	
	(oy.p.op	ymaomoammook	,,0	(, ,	61

Not applicable

Titanium dioxide (13463-67-7)		
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
ACGIH	Remark (ACGIH)	LRT irr; A3
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup>

#### octamethylcyclotetrasiloxane (556-67-2)

Not applicable

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#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 8.2. Exposure controls

Appropriate engineering controls Ensure good ventilation of the work station.

Personal protective equipment Protective clothing. Safety glasses. Gloves.







Hand protection protective gloves. EN 374.

Eye protection EN 166. Safety glasses.

Skin and body protection Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Pasty.
Colour red white
Odour odourless
Odour threshold Not determined

pH 8.5

Melting pointNot applicableFreezing pointNo data availableBoiling pointNo data available

Flash point 412 °F

Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available No data available Explosive limits No data available Explosive properties Oxidising properties No data available No data available Vapour pressure Relative density No data available Relative vapour density at 20 °C No data available Density 1.38 g/cm<sup>3</sup> Molecular mass Not determined Solubility No data available Log Pow No data available No data available Auto-ignition temperature Decomposition temperature No data available Viscosity No data available Viscosity, kinematic No data available Viscosity, dynamic No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

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

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity Not classified

Methyltris(1-methylpropylideneaminooxy)silane (22984-54-9)			
LD50 oral rat	2250 mg/kg (Rat; Literature study)		
ATE US (oral)	2250.000 mg/kg bodyweight		
Titanium dioxide (13463-67-7)			
LD50 oral rat	> 5000 mg/kg		
LC50 inhalation rat (mg/l)	5.09 mg/l/4h		
ATE US (vapours)	5.090 mg/l/4h		
ATE US (dust,mist)	5.090 mg/l/4h		
octamethylcyclotetrasiloxane (556-67-2)			
LD50 oral rat	> 4800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)		
LD50 dermal rat	> 2400 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)		
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)		
LC50 inhalation rat (mg/l)	36 mg/l/4h (Rat; Experimental value)		
ATE US (vapours)	36.000 mg/l/4h		
ATE US (dust,mist)	36.000 mg/l/4h		
Skin corrosion/irritation	Not classified		
	pH: 8.5		
Serious eye damage/irritation	Not classified		
	pH: 8.5		
Respiratory or skin sensitisation	May cause an allergic skin reaction.		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Titanium dioxide (13463-67-7)			

Carolinogorilony	Not stassified	
Titanium dioxide (13463-67-7)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity Specific target organ toxicity (single exposure)	Suspected of damaging fertility or the unborn child.  Not classified	
Specific target organ toxicity (repeated exposure)	Not classified	
Aspiration hazard	Not classified	

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#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after skin contact

May cause an allergic skin reaction.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Methyltris(1-methylpropylideneaminooxy)silane (22984-54-9)		
LC50 fish 1	> 560 mg/l (96 h; Pisces; Reaction product)	
EC50 Daphnia 1	750 mg/l (48 h; Daphnia magna; Reaction product)	
Titanium dioxide (13463-67-7)		
LC50 fish 1	294 mg/l	
LC50 other aquatic organisms 1	> 500 mg/l	
octamethylcyclotetrasiloxane (556-67-	2)	
LC50 fish 1	> 1000 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Nominal concentration)	
EC50 Daphnia 1	> 500 mg/l (24 h; Artemia salina; Nominal concentration)	
LC50 fish 2	> 500 mg/l (96 h; Brachydanio rerio; Nominal concentration)	
EC50 Daphnia 2	> 0.015 mg/l (48 h; Daphnia magna; GLP)	
Threshold limit algae 1	> 0.022 mg/l (96 h: Selenastrum capricornutum: GLP)	

#### 12.2. Persistence and degradability

Methyltris(1-methylpropylideneaminooxy)silane (22984-54-9)		
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.	
octamethylcyclotetrasiloxane (556-67-2)		

#### 12.3. Bioaccumulative potential

Methyltris(1-methylpropylideneaminooxy)silane (22984-54-9)		
Bioaccumulative potential	No bioaccumulation data available.	
octamethylcyclotetrasiloxane (556-67-2)		
BCF fish 1	12400 (672 h; Pimephales promelas; GLP)	
Log Pow	4.45 - 5.1 (Literature; 6.488; Experimental value; Other; 25.1 °C)	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming No known effects from this product.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

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#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)
Proper Shipping Name (IMDG)
Proper Shipping Name (IATA)
Proper Shipping Name (ADN)
Proper Shipping Name (ADN)
Proper Shipping Name (RID)
Not applicable
Not applicable

#### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) Not applicable

IATA

Transport hazard class(es) (IATA) Not applicable

ADN

Transport hazard class(es) (ADN) Not applicable

RID

Transport hazard class(es) (RID) Not applicable

#### 14.4. Packing group

Packing group (ADR)

Packing group (IMDG)

Packing group (IATA)

Packing group (ADN)

Packing group (ADN)

Packing group (RID)

Not applicable

Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment No Marine pollutant No

Other information No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

Carriage prohibited (ADN) No Not subject to ADN No

- Rail transport

Carriage prohibited (RID) No

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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

#### Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

Hilti Firestop Sealant CFS-S SIL SL/GG	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317 Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

#### National regulations

#### Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### **SECTION 16: Other information**

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#### Full text of H-statements:

H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H413	May cause long lasting harmful effects to aquatic life

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HMIS III Rating

Health 0 Minimal Hazard - No significant risk to health Flammability 0 Minimal Hazard - Materials that will not burn

Physical 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection E

B - Safety glasses, Gloves

SDS\_US\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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Material Name: Gasoline All Grades

SDS No. 9950

US GHS

**Synonyms:** Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

## \* \* \* Section 1 - Product and Company Identification \* \* \*

#### **Manufacturer Information**

Hess Corporation 1 Hess Plaza Woodbridge, NJ 07095-0961 Phone: 732-750-6000 Corporate EHS Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

#### \* \* \* Section 2 - Hazards Identification \* \* \*

#### **GHS Classification:**

Flammable Liquid - Category 2

Skin Corrosion/Irritation - Category 2

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Toxic to Reproduction - Category 1A

Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)

Specific Target Organ Toxicity (Repeat Exposure) - Category 1 (liver, kidneys, bladder, blood, bone marrow, nervous system)

Aspiration Hazard - Category 1

Hazardous to the Aquatic Environment – Acute Hazard - Category 3

#### **GHS LABEL ELEMENTS**

#### Symbol(s)



#### **Signal Word**

**DANGER** 

#### **Hazard Statements**

Highly flammable liquid and vapour.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs (liver, kidneys, bladder, blood, bone marrow, nervous system) through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.

Material Name: Gasoline All Grades SDS No. 9950

#### **Precautionary Statements**

#### Prevention

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

Wash hands and forearms thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Use only outdoors or in well-ventilated area.

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

Avoid release to the environment.

#### Response

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher.

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

#### Storage

Store in a well-ventilated place.

Keep cool. Keep container tightly closed.

Store locked up.

#### **Disposal**

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

## \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
86290-81-5	Gasoline, motor fuel	100
108-88-3	Toluene	1-25
106-97-8	Butane	<10
1330-20-7	Xylenes (o-, m-, p- isomers)	1-15
95-63-6	Benzene, 1,2,4-trimethyl-	<6
64-17-5	Ethyl alcohol	0-10
100-41-4	Ethylbenzene	<3
71-43-2	Benzene	0.1-4.9

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Material Name: Gasoline All Grades SDS No. 9950

110-54-3	Hexane	0.5-4	
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A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol). Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

## \* \* \* Section 4 - First Aid Measures \* \* \*

#### First Aid: 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.

#### First Aid: Skin

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

#### First Aid: 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.

#### First Aid: 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.

## \* \* \* Section 5 - Fire Fighting Measures \* \* \*

#### **General Fire Hazards**

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. 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.

#### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

#### **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

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.

Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration.

## **Unsuitable Extinguishing Media**

None

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#### Fire Fighting Equipment/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.

## \* \* \* Section 6 - Accidental Release Measures \* \* \*

#### **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

#### Materials and Methods for Clean-Up

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.

#### **Emergency Measures**

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.

#### **Personal Precautions and Protective Equipment**

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

#### **Environmental Precautions**

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.

#### **Prevention of Secondary Hazards**

None

## \* \* \* Section 7 - Handling and Storage \* \* \*

#### **Handling Procedures**

USE ONLY AS A MOTOR FUEL. DO NOT SIPHON BY MOUTH

Handle as a flammable 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.

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#### **Material Name: Gasoline All Grades**

**SDS No. 9950** 

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 Procedures

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".

#### **Incompatibilities**

Keep away from strong oxidizers.

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

#### **Component Exposure Limits**

#### Gasoline, motor fuel (86290-81-5)

ACGIH: 300 ppm TWA 500 ppm STEL

#### Toluene (108-88-3)

ACGIH: 20 ppm TWA

OSHA: 200 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

NIOSH: 100 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

#### Butane (106-97-8)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)

OSHA: 800 ppm TWA; 1900 mg/m3 TWA NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA

150 ppm STEL

OSHA: 100 ppm TWA; 435 mg/m3 TWA

150 ppm STEL; 655 mg/m3 STEL

#### Benzene, 1,2,4-trimethyl- (95-63-6)

NIOSH: 25 ppm TWA; 125 mg/m3 TWA

#### Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm STEL

OSHA: 1000 ppm TWA; 1900 mg/m3 TWA NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

5 (40

Material Name: Gasoline All Grades SDS No. 9950

#### Ethylbenzene (100-41-4)

ACGIH: 20 ppm TWA

OSHA: 100 ppm TWA; 435 mg/m3 TWA

125 ppm STEL; 545 mg/m3 STEL

NIOSH: 100 ppm TWA; 435 mg/m3 TWA

125 ppm STEL; 545 mg/m3 STEL

#### Benzene (71-43-2)

ACGIH: 0.5 ppm TWA

2.5 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action

Level; 1 ppm TWA

NIOSH: 0.1 ppm TWA

1 ppm STEL

#### Hexane (110-54-3)

ACGIH: 50 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 500 ppm TWA; 1800 mg/m3 TWA NIOSH: 50 ppm TWA; 180 mg/m3 TWA

#### **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

#### Personal Protective Equipment: Respiratory

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.

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.

#### **Personal Protective Equipment: Hands**

Gloves constructed of nitrile, neoprene, or PVC are recommended.

#### PERSONAL PROTECTIVE EQUIPMENT

#### **Personal Protective Equipment: Eyes**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

#### Personal Protective Equipment: Skin and Body

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.

Material Name: Gasoline All Grades SDS No. 9950

## \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

Appearance: Translucent, straw-colored or Odor: Strong, characteristic aromatic

light yellow hydrocarbon odor. Sweet-ether

like

Physical State: Liquid pH: ND

Vapor Pressure: 6.4 - 15 RVP @ 100 °F (38 °C) Vapor Density: AP 3-4

(275-475 mm Hg @ 68 °F (20

°C)

Boiling Point:85-437 °F (39-200 °C)Melting Point:NDSolubility (H2O):Negligible to SlightSpecific Gravity:0.70-0.78

Evaporation Rate:10-11VOC:NDPercent Volatile:100%Octanol/H2O Coeff.:NDFlash Point:-45 °F (-43 °C)Flash Point Method:PMCCUpper Flammability Limit7.6%Lower Flammability Limit1.4%

(UFL): (LFL):

Burning Rate: ND Auto Ignition: >530°F (>280°C)

## \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

#### **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

#### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

#### **Incompatible Products**

Keep away from strong oxidizers.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

## \* \* \* Section 11 - Toxicological Information \* \* \*

## **Acute Toxicity**

#### A: General Product Information

Harmful if swallowed.

#### B: Component Analysis - LD50/LC50

#### **Gasoline, motor fuel (86290-81-5)**

Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat 14000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

#### Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

#### Butane (106-97-8)

Inhalation LC50 Rat 658 mg/L 4 h

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Material Name: Gasoline All Grades SDS No. 9950

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

#### Benzene, 1,2,4-trimethyl- (95-63-6)

Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 3400 mg/kg; Dermal LD50 Rabbit >3160 mg/kg

#### **Ethyl alcohol (64-17-5)**

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

#### Ethylbenzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

#### Benzene (71-43-2)

Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

#### Hexane (110-54-3)

Inhalation LC50 Rat 48000 ppm 4 h; Oral LD50 Rat 25 g/kg; Dermal LD50 Rabbit 3000 mg/kg

#### Potential Health Effects: Skin Corrosion Property/Stimulativeness

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

#### Potential Health Effects: Eye Critical Damage/ Stimulativeness

Moderate irritant. Contact with liquid or vapor may cause irritation.

#### **Potential Health Effects: Ingestion**

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.

#### Potential Health Effects: 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.

#### **Respiratory Organs Sensitization/Skin Sensitization**

This product is not reported to have any skin sensitization effects.

#### **Generative Cell Mutagenicity**

This product may cause genetic defects.

#### Carcinogenicity

#### A: General Product Information

May cause cancer.

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**Material Name: Gasoline All Grades** 

SDS No. 9950

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

#### **B: Component Carcinogenicity**

#### Gasoline, motor fuel (86290-81-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

#### Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic

beverages) (Group 1 (carcinogenic to humans))

#### Ethylbenzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

#### Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action

Level; 1 ppm TWA

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1

(carcinogenic to humans))

#### Reproductive Toxicity

This product is suspected of damaging fertility or the unborn child.

## Specified Target Organ General Toxicity: Single Exposure

This product may cause drowsiness or dizziness.

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Material Name: Gasoline All Grades SDS No. 9950

#### Specified Target Organ General Toxicity: Repeated Exposure

This product causes damage to organs through prolonged or repeated exposure.

#### **Aspiration Respiratory Organs Hazard**

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.

## \* \* \* Section 12 - Ecological Information \* \* \*

#### **Ecotoxicity**

#### **A: General Product Information**

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

#### **B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Gasoline, motor fuel (86290-81-5)

Test & Species		Conditions
96 Hr LC50 Alburnus alburnus	119 mg/L [static]	
96 Hr LC50 Cyprinodon variegatus	82 mg/L [static]	
72 Hr EC50 Pseudokirchneriella	56 mg/L	
subcapitata		
24 Hr EC50 Daphnia magna	170 mg/L	

## Toluene (108-88-3)

Took & Crosics		Canditiana
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi- static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi- static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	
V-1 (		

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	13.4 mg/L [flow- through]	

D 10 110

SDS No. 9950

#### Material Name: Gasoline All Grades

2.661-4.093 mg/L 96 Hr LC50 Oncorhynchus mykiss [static] 96 Hr LC50 Oncorhynchus mykiss 13.5-17.3 mg/L 96 Hr LC50 Lepomis macrochirus 13.1-16.5 mg/L [flow-through] 96 Hr LC50 Lepomis macrochirus 19 mg/L 7.711-9.591 mg/L 96 Hr LC50 Lepomis macrochirus [static] 23.53-29.97 mg/L 96 Hr LC50 Pimephales promelas [static] 96 Hr LC50 Cyprinus carpio 780 mg/L [semistatic] 96 Hr LC50 Cyprinus carpio >780 mg/L 96 Hr LC50 Poecilia reticulata 30.26-40.75 mg/L [static] 48 Hr EC50 water flea 3.82 mg/L 48 Hr LC50 Gammarus lacustris 0.6 mg/L

Benzene, 1,2,4-trimethyl- (95-63-6)

96 Hr LC50 Oncorhynchus mykiss

Test & Species Conditions

96 Hr LC50 Pimephales promelas 7.19-8.28 mg/L [flow-through] 48 Hr EC50 Daphnia magna 6.14 mg/L

Ethyl alcohol (64-17-5)

Test & Species Conditions

12.0 - 16.0 mL/L

[static] 
96 Hr LC50 Pimephales promelas 
96 Hr LC50 Pimephales promelas 
13400 - 15100 mg/L [flow-through] 
48 Hr LC50 Daphnia magna 
24 Hr EC50 Daphnia magna 
48 Hr EC50 Daphnia magna 
24 mg/L [Static]

Ethylbenzene (100-41-4)

Test & Species Conditions

96 Hr LC50 Oncorhynchus mykiss 11.0-18.0 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss 4.2 mg/L [semi-

static]

96 Hr LC50 Pimephales promelas 7.55-11 mg/L [flow-through]

96 Hr LC50 Lepomis macrochirus 32 mg/L [static]

96 Hr LC50 Pimephales promelas 9.1-15.6 mg/L [static]

96 Hr LC50 Poecilia reticulata 9.6 mg/L [static]

72 Hr EC50 Pseudokirchneriella 4.6 mg/L subcapitata

96 Hr EC50 Pseudokirchneriella

subcapitata
72 Hr EC50 Pseudokirchneriella
2.6 - 11.3 mg/L

subcapitata [static]

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>438 mg/L

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#### Material Name: Gasoline All Grades

SDS No. 9950

96 Hr EC50 Pseudokirchneriella 1.7 - 7.6 mg/L subcapitata [static]

48 Hr EC50 Daphnia magna 1.8 - 2.4 mg/L

Benzene (71-43-2)

**Conditions Test & Species** 

96 Hr LC50 Pimephales promelas 10.7-14.7 mg/L [flow-through] 96 Hr LC50 Oncorhynchus mykiss 5.3 mg/L [flowthrough]

96 Hr LC50 Lepomis macrochirus 22.49 mg/L [static] 96 Hr LC50 Poecilia reticulata 28.6 mg/L [static] 96 Hr LC50 Pimephales promelas 22330-41160 µg/L

[static]

96 Hr LC50 Lepomis macrochirus 70000-142000 µg/L

[static] 29 mg/L

72 Hr EC50 Pseudokirchneriella

subcapitata

8.76 - 15.6 mg/L 48 Hr EC50 Daphnia magna

[Static] 10 mg/L

48 Hr EC50 Daphnia magna

Hexane (110-54-3)

**Test & Species** Conditions

96 Hr LC50 Pimephales promelas 2.1-2.98 mg/L [flow-

through]

24 Hr EC50 Daphnia magna >1000 mg/L

## Persistence/Degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility in Soil**

No information available.

## **Section 13 - Disposal Considerations**

#### Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

#### Disposal of Contaminated Containers or Packaging

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

Material Name: Gasoline All Grades **SDS No. 9950** 

## **Section 14 - Transportation Information**

#### **Component Marine Pollutants**

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

#### **DOT Information**

Shipping Name: Gasoline

UN #: 1203 Hazard Class: 3 Packing Group: II

Placard:



## **Section 15 - Regulatory Information**

#### **Regulatory Information**

#### A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 1000 lb final RQ; 454 kg final RQ

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

SARA 313: 1.0 % de minimis concentration CERCLA: 100 lb final RQ; 45.4 kg final RQ

#### Benzene, 1,2,4-trimethyl- (95-63-6)

SARA 313: 1.0 % de minimis concentration

#### Ethylbenzene (100-41-4)

SARA 313: 0.1 % de minimis concentration CERCLA: 1000 lb final RQ; 454 kg final RQ

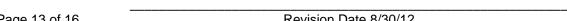
#### Benzene (71-43-2)

SARA 313: 0.1 % de minimis concentration

10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an

August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on

potential carcinogenicity in an August 14, 1989 final rule)



**Material Name: Gasoline All Grades** 

**SDS No. 9950** 

Hexane (110-54-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 - Hazard Classes

Acute Health Chronic Health X Sudden Release of Pressure Reactive X -- Reactive

#### **Component Marine Pollutants**

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

#### **State Regulations**

#### **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Gasoline, motor fuel	86290-81-5	No	No	No	No	Yes	No
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	No
Butane	106-97-8	Yes	Yes	Yes	Yes	Yes	No
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Benzene, 1,2,4-trimethyl-	95-63-6	No	Yes	Yes	Yes	Yes	No
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes	No
Benzene	71-43-2	Yes	Yes	Yes	Yes	Yes	No
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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Material Name: Gasoline All Grades SDS No. 9950

#### **Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Toluene	108-88-3	1 %
Butane	106-97-8	1 %
Benzene, 1,2,4-trimethyl-	95-63-6	0.1 %
Ethyl alcohol	64-17-5	0.1 %
Ethylbenzene	100-41-4	0.1 %
Benzene	71-43-2	0.1 %
Hexane	110-54-3	1 %

#### **Additional Regulatory Information**

#### **Component Analysis - Inventory**

Component	CAS#	TSCA	CAN	EEC
Gasoline, motor fuel	86290-81-5	No	DSL	EINECS
Toluene	108-88-3	Yes	DSL	EINECS
Butane	106-97-8	Yes	DSL	EINECS
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	DSL	EINECS
Benzene, 1,2,4-trimethyl-	95-63-6	Yes	DSL	EINECS
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Ethylbenzene	100-41-4	Yes	DSL	EINECS
Benzene	71-43-2	Yes	DSL	EINECS
Hexane	110-54-3	Yes	DSL	EINECS

## \* \* \* Section 16 - Other Information \* \* \*

NFPA® Hazard Rating Health 2

Fire 3 Reactivity 0 2 0

HMIS® Hazard Rating Health 2 Moderate

Fire 3 Serious Physical 0 Minimal \*Chronic

#### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

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#### **Literature References**

None

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Material Name: Gasoline All Grades SDS No. 9950

#### 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

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Revision: 08/14/2019 Supersedes Revision: 05/22/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 2465.3

Product Name: Goof Off Heavy Duty

Company Name: W. M. Barr Phone Number:

2105 Channel Avenue (901)775-0100

Memphis, TN 38113

Web site address: www.wmbarr.com

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346 **Information:** W.M. Barr Customer Service (800)398-3892

Intended Use: Multi-Purpose Remover for rar, ink, paint, adhesive, etc.

**Product Code:** FG644, FG659, FG659AM, FG659B, FG659W, FG720, FG708, FG659BW, FG722, FG659BHDIP,

FG659BWS, FG659BLWS, FG659BWM, FG705

## 2. HAZARDS IDENTIFICATION

Serious Eye Damage/Eye Irritation, Category 2A

Specific Target Organ Toxicity (single exposure), Category 3



GHS Signal Word: Warning

GHS Hazard Phrases: H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**GHS Precautionary Phrases:** P261: Avoid breathing gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

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

GHS Response Phrases: P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal

P403+233: Store container tightly closed in well-ventilated place.

Phrases:

P405: Store locked up.

P501: Dispose of contents/container according to local, state and federal regulations.

**OSHA Regulatory Status:** 

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute

and Chronic):

This material has not been tested as a whole for health effects. Effects listed are those of the

individually listed ingredients in this msds.

Eyes:

May cause severe irritation. Effects may include discomfort or pain, and redness.

Skin:

Brief contact may cause slight skin irritation with local redness. Repeated exposure may cause

irritation. May cause more severe response on covered skin (under clothing, gloves).

Inhalation:

When used as directed, the consumer is not expected to experience any exposure effects. Excessive exposure may cause irritation to the upper respiratory tract. Symptoms may include a

Revision: 08/14/2019 Supersedes Revision: 05/22/2019

headache, dizziness, or nausea.

Ingestion:

Moderately toxic if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. However, swallowing larger amounts may cause injury.

Target Organs: Blood (Hemolysis), Kidneys, Liver, Eyes, Skin, Central Nervous System.

Primary Routes of Entry: Eyes, Skin, Inhalation, Ingestion

**Medical Conditions Generally** 

None known.

**Aggravated By Exposure:** 

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
100-51-6	Benzenemethanol {Benzyl alcohol}	3.0 -7.0 %
143-18-0	Oleic acid potassium salt	1.0 -5.0 %
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	1.0 -5.0 %
770-35-4	Propylene glycol phenyl ether {(not 313)}	0.5 -1.5 %

Additional Chemical Information Specific percentage of composition is being withheld as a trade secret.

## 4. FIRST AID MEASURES

**Emergency and First Aid** 

Skin:

**Procedures:** 

Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap, if available. Seek medical attention if irritation develops or persists.

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Signs and Symptoms Of

See Potential Health Effects.

**Exposure:** 

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5. FIRE FIGHTING MEASURES

Flammability Classification: Not flammable or combustible

Flash Pt: > 212.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

**Explosive Limits:** LEL: none UEL: none

**Autoignition Pt:** N.D.

Suitable Extinguishing Media: Non-combustible liquid - use extinguishing media for underlying cause of fire.

Unsuitable Extinguishing Media: None known.

Fire Fighting Instructions: Material is not flammable or combustible. No special fire fighting instructions required.

Flammable Properties and

None

Hazards:

**Hazardous Combustion** 

Material should not burn. Combustion product will be from surrounding materials involved in fire.

Products:

Additional Fire Fighting

Information

NP = Not applicable

#### 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case

Prevent entry into waterways, sewers, or confined areas. Absorb or cover with dry earth, sand, or Material Is Released Or Spilled: other non-combustible material and transfer to compatible containers for proper disposal. For large

spills, dike ahead of the spill.

## 7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. A source of clean water should be kept in the immediate work area for flushing of the eyes and skin.

Follow all SDS/label precautions even after container is emptied because they may retain product

residues.

Precautions To Be Taken in

Storing:

Keep containers closed when not in use. Store in a cool, dry place, out of direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Type):

Respiratory Equipment (Specify When used by the consumer following directions for use and with adequate ventilation, respiratory

protection is not expected to be needed.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

If the work area is not properly ventilated to keep airborne levels below their exposure limits, you must use a properly fitted and maintained NIOSH approved respirator for organic vapors. A dust

mask does not provide protection against vapors.

**Eye Protection:** Where contact with the eyes or face is likely from spraying or splashing, safety glasses, a

faceshield or chemical goggles should be worn to prevent eye contact.

**Protective Gloves:** When used as directed, protective gloves should not be required. For prolonged or repeated

> contact, wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as natural rubber or nitrile rubber provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional

information.

Other Protective Clothing: Various application methods can dictate use of additional protective safety equipment, such as

impermeable aprons, etc., to minimize exposure.

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**Engineering Controls** 

Ventilation is normally not required when handling or using this product to keep exposure to

(Ventilation etc.):

airborne contaminants below the exposure limit.

Good general ventilation should be sufficient to control airborne levels.

Work/Hygienic/Maintenance

Practices:

Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Discard any clothing or other protective equipment that cannot be

decontaminated.

9. PHYSICAL AND CHEMICAL PROPERTIE	9.	PHYS	ICAL AND	CHEMICA	L PRO	PERTIE	⇉
------------------------------------	----	------	----------	---------	-------	--------	---

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Slight yellow to clear, transparent, almond-like odor.

Odor threshold not determined.

pH: 8.3 - 8.7
 Melting Point: 32.00 F
 Boiling Point: 212.00 F

Flash Pt: > 212.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

Evaporation Rate: < 1

Flammability (solid, gas): No data available.

Explosive Limits: LEL: none UEL: none

Vapor Pressure (vs. Air or mm < 0.1 MM HG

Hg):

Vapor Density (vs. Air = 1): > 1

Specific Gravity (Water = 1): 0.997

Density: 8.3 LB/GL

Solubility in Water: Complete

Saturated Vapor Concentration: ND Octanol/Water Partition ND

Coefficient:

Percent Volatile: ~ 87 % by weight.

VOC / Volume: 3.0000 % WT

Autoignition Pt: N.D.

Decomposition Temperature: No data.

Viscosity: ND

Additional Physical Information ND = Not Determined

## 10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Instability: None known.

Incompatibility - Materials To Strong oxidizing agents, isocyanates, acetaldehyde, aluminum alkyl compounds and strong mineral

Avoid: acid

Hazardous Decomposition or

Carbon monoxide, carbon dioxide

**Byproducts:** 

Possibility of Hazardous Will occur [ ] Will not occur [ X ]

Reactions:

Conditions To Avoid - Hazardous None known.

Reactions:

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## 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** 

Material has not been tested as a whole. Data is for individual ingredients. Refer to section 2 for acute and chronic effects.

CAS# 112-34-5:

Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.

Behavioral: Anticonvulsant.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415,

Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

**Chronic Toxicological Effects:** 

Carcinogenicity/Other

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC 3: Not

Information:

Classifiable as to Carcinogenicity in Humans.

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
100-51-6	Benzenemethanol {Benzyl alcohol}	n.a.	n.a.	n.a.	n.a.
143-18-0	Oleic acid potassium salt	n.a.	n.a.	n.a.	n.a.
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	n.a.	n.a.	n.a.	n.a.
770-35-4	Propylene glycol phenyl ether {(not 313)}	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

General Ecological Information: Not determined for this product as a whole.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with all applicable local, state, and federal regulations. Do not dump into

sewers or allow to enter waterways.

## 14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** 

Not regulated by D.O.T.

**DOT Hazard Class: UN/NA Number:** 

**Additional Transport** 

Information:

## 15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists				
CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
100-51-6	Benzenemethanol {Benzyl alcohol}	No	No	No
143-18-0	Oleic acid potassium salt	No	No	No
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	No	No	Yes-Cat. N230
770-35-4	Propylene glycol phenyl ether {(not 313)}	No	No	No

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CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
100-51-6	Benzenemethanol {Benzyl alcohol}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
143-18-0	Oleic acid potassium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
770-35-4	Propylene glycol phenyl ether {(not 313)}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR, 8D TERM; CA PROP.65: No

Regulatory Information: This product is regulated by the United States Consumer Product Safety Commission and is

subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for

use, and should always be read in its entirety prior to using the product.

## **16. OTHER INFORMATION**

**Revision Date:** 08/14/2019

Preparer Name: W.M. Barr EHS Dept (901)775-0100

No data available.

**Additional Information About** 

**This Product:** 

Company Policy or Disclaimer: The information contained herein is presented in good faith and believed to be accurate as of the

effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state

and local laws and regulations.

# GORILLA POOR TOUGH

#### Safety Data Sheet - Original Gorilla Glue

**Date Revised:** 01/4/2019 **Date Issued:** 05/21/2015

Version: 1.5

#### FOR CHEMICAL EMERGENCY:

During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 1: IDENTIFICATION**

#### **Product Identifier**

Product Name: Original Gorilla Glue Synonyms: Polyurethane Adhesive Intended Use of the Product

Consumer Adhesives for building, carpentry, or hobby projects. Name, Address, and Telephone of the Responsible Party

#### Company

The Gorilla Glue Company 2101 E. Kemper Road Cincinnati, Ohio 45241 513-271-3300

www.gorillatough.com

#### **Emergency Telephone Number**

Emergency number : 1-800-420-7186 (Prosar)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture**

#### Classification (GHS-US)

Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Irrit. 2 H315
Eye Irrit. 2B H320
Resp. Sens. 1 H334
Skin Sens. 1 H317
STOT SE 3 H335
STOT RE 1 H372
Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

**Hazard Statements (GHS-US)** : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H320 - Causes eye irritation. H332 - Harmful if inhaled.

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

H335 - May cause respiratory irritation.

H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements (GHS-US)**: P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, and eye protection. P284 - [In case of inadequate ventilation] wear respiratory protection.

# GORILLA:

## Safety Data Sheet - Original Gorilla Glue

**Date Revised:** 01/4/2019 **Date Issued:** 05/21/2015

Version: 1.5

#### FOR CHEMICAL EMERGENCY:

During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a poison center or doctor if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P362+P364 - 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.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

#### **Other Hazards**

**Other Hazards:** May cause gastro-intestinal blockage if swallowed. Seek medical advice immediately. Contains isocyanates. May produce an allergic reaction.

**Unknown Acute Toxicity (GHS-US)** Not available

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Polyisocyanate Prepolymer based on MDI	(CAS No) 67815-87-6	40 - 70	Acute Tox. 4 (Inhalation:dust,mist), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Resp. Sens. 1, H334
			Skin Sens. 1, H317
			STOT SE 3, H335
			STOT RE 1, H372
Polymeric Diphenylmethane Diisocyanate	(CAS No) 9016-87-9	10 - 30	Acute Tox. 4 (Inhalation:dust,mist), H332
(pMDI)			Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Resp. Sens. 1, H334
			Skin Sens. 1, H317
			STOT SE 3, H335
			STOT RE 1, H372
4,4'-Diphenylmethane diisocyanate	(CAS No) 101-68-8	15 - 25	Acute Tox. 4 (Inhalation:dust,mist), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Resp. Sens. 1, H334
			Skin Sens. 1, H317
			STOT SE 3, H335
			STOT RE 2, H373
Diphenylmethane Diisocyanate (MDI) Mixed	(CAS No) 26447-40-5	1 - 5	Acute Tox. 4 (Inhalation:dust,mist), H332
Isomers			Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Resp. Sens. 1, H334
			Skin Sens. 1, H317
			STOT SE 3, H335



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			STOT RE 1, H372
Additive	(CAS No) Trade Secret	<0.5	Acute Tox. 4 (Dermal), H312
			Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Skin Sens. 1, H317
			STOT SE 3, H335

Full text of H-phrases: see section 16

# **SECTION 4: FIRST AID MEASURES**

# **Description of First Aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Using proper respiratory protection, immediately move the exposed person to fresh air. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

# Most Important Symptoms and Effects Both Acute and Delayed

**General:** Irritation to eyes, skin and respiratory tract. Exposure may produce an allergic reaction. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing.

**Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.

Eye Contact: Causes eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if swallowed.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure.

# Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## **SECTION 5: FIRE-FIGHTING MEASURES**

# **Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are preferred. If water is used, it should be used in very large quantities. The reaction between water and isocyanate may be vigorous.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

## **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat,  $CO_2$ , and insoluble polyurea. The combined effect of  $CO_2$  and heat can produce enough pressure to rupture a closed container.

#### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Do not allow run-off from fire fighting to enter drains or water courses.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Fire will produce dense black smoke. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds.



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# **Reference to Other Sections**

Refer to section 9 for flammability properties.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing.

**For Non-Emergency Personnel** 

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

## **Environmental Precautions**

Prevent entry to sewers and public waters.

# Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Remove mechanically; cover remainders with wet absorbent material (e. g. sand, earth, sawdust). After approx. 15 min. transfer to waste container and do not seal (evolution of CO<sub>2</sub>). Keep damp in a safe ventilated area for several days. Clean up spills immediately and dispose of waste safely.

#### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

#### **SECTION 7: HANDLING AND STORAGE**

# **Precautions for Safe Handling**

Additional Hazards When Processed: Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

## **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep product away from sources of alcohols, amines, or other materials that react with isocyanates. Keep out of reach of children and animals. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Amines. Alcohols. Copper and its alloys. Water.

**Storage Temperature:** 18 - 30 °C (64.4 - 86 °F)

Specific End Use(s)

Consumer Adhesives for building, carpentry, or hobby projects.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

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Polymeric Diphenylmethane	Diisocyanate (pMDI) (9016-87-9)			
Alberta	OEL TWA (mg/m³)	0.07 mg/m³		
Alberta	OEL TWA (ppm)	0.005 ppm		
	4,4'-Methylenediphenyl diisocyanate (101-68-8)			
USA ACGIH	ACGIH TWA (ppm)	0.005 ppm		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	0.2 mg/m³		
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³		
USA NIOSH	NIOSH REL (TWA) (ppm)	0.005 ppm		
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	0.2 mg/m <sup>3</sup>		
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.020 ppm		
USA IDLH	US IDLH (mg/m³)	75 mg/m³		
Alberta	OEL TWA (mg/m³)	0.05 mg/m³		
Alberta	OEL TWA (ppm)	0.005 ppm		
British Columbia	OEL Ceiling (ppm)	0.01 ppm		
British Columbia	OEL TWA (ppm)	0.005 ppm		
Manitoba	OEL TWA (ppm)	0.005 ppm		
New Brunswick	OEL TWA (mg/m³)	0.051 mg/m³		
New Brunswick	OEL TWA (ppm)	0.005 ppm		
Newfoundland & Labrador	OEL TWA (ppm)	0.005 ppm		
Nova Scotia	OEL TWA (ppm)	0.005 ppm		
Ontario	OEL Ceiling (ppm)	0.02 ppm (designated substances regulation)		
Ontario	OEL TWA (ppm)	0.005 ppm (designated substances regulation)		
		0.005 ppm (applies to workplaces to which the designated		
		substances regulation does not apply)		
Prince Edward Island	OEL TWA (ppm)	0.005 ppm		
Québec	VEMP (mg/m³)	0.051 mg/m³		
Québec	VEMP (ppm)	0.005 ppm		
Saskatchewan	OEL STEL (ppm)	0.015 ppm		
Saskatchewan	OEL TWA (ppm)	0.005 ppm		
Yukon	OEL Ceiling (mg/m³)	0.2 mg/m <sup>3</sup>		
Yukon	OEL Ceiling (ppm)	0.02 ppm		
Diphenylmethane Diisocyan	ate (MDI) Mixed Isomers (26447-40-5)			
Mexico	OEL TWA (mg/m³)	0.2 mg/m <sup>3</sup>		
		0.051 mg/m <sup>3</sup>		
Mexico	OEL TWA (ppm)	0.02 ppm		
		0.005 ppm		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	0.2 mg/m <sup>3</sup>		
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm		
Nunavut	OEL Ceiling (mg/m³)	0.2 mg/m <sup>3</sup>		
Nunavut	OEL Ceiling (ppm)	0.02 ppm		
Northwest Territories	OEL Ceiling (mg/m³)	0.2 mg/m <sup>3</sup>		
Northwest Territories	OEL Ceiling (ppm)	0.02 ppm		

# **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Ensure all national/local regulations are observed.

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Personal Protective Equipment: Protective clothing. Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed

established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# **Information on Basic Physical and Chemical Properties**

Physical State: LiquidAppearance: Brown

Odor: Earthy, mustyOdor Threshold: Not availablepH: Not availableEvaporation Rate: Not available

Melting Point : 0 °C (Calculated) (32 °F)

Freezing Point : Not available

Boiling Point : 208 °C (406.4 °F)

Flash Point : > 205 °C (> 401 °F) (Pensky-Martens Closed Cup (ASTM D-93))

**Auto-ignition Temperature** : Not available

**Decomposition Temperature** : Polymerizes at about 200 °C with evolution of CO<sub>2</sub>

Flammability (solid, gas) : Not available
Lower Flammable Limit : Not available
Upper Flammable Limit : Not available

**Vapor Pressure** : < 0.0001 mm Hg @ 25 °C (77 °F)

Relative Vapor Density at 20 °C : Not available Relative Density : Not available

Density: 1.138 g/cm³ @ 20 °C (68 °F)Specific Gravity: 1.137 @ 25 °C (77 °F)Solubility: Insoluble in water.

Partition Coefficient: N-Octanol/Water: Not availableViscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact. Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

# **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea. The combined effect of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Contact with moisture, other matrials that react with isocyanates, or temperatures above 350°F (177°C) may cause polymerization.

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**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Alcohols. Copper and its alloys. Amines. Water.

Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds. Isocyanates. Fire will produce dense black

smoke.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# <u>Information on Toxicological Effects - Product</u>

Acute Toxicity: Based on polymeric MDI

LD50 and LC50 Data:

Polymeric MDI	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 9400 mg/kg (OECD Test Guideline 402)
LC50 Inhalation Rat	0.49 mg/l/4h
ATE US (vapors)	0.49 mg/l/4h
ATE US (dust, mist)	0.49 mg/l/4h
Additional information	Toxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers). For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified

Skin Corrosion/Irritation: Causes skin irritation. (Rabbit, slightly irritating)

**Serious Eye Damage/Irritation:** Causes eye irritation.

**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified (Genetic Toxicity in Vitro: Bacterial - gene mutation assay: negative (Salmonella typhimurium,

Metabolic Activation: with/without))

Teratogenicity: Rat, female, inhalation, gestation days 6-15, 6 hrs/day, NOAEL (teratogenicity): 12 mg/m³, NOAEL (maternal) 4

mg/m<sup>3</sup>. No teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

**Aspiration Hazard:** Not classified

Symptoms/Injuries After Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Exposure may produce an allergic reaction.

**Symptoms/Injuries After Eye Contact:** Causes eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if

swallowed.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure.

Polymeric MDI	
NOAEL (inhalation,rat,dust/mist/fume, 90 days)	1 mg/m³ (6hrs/day 5 days/week) Irritation to lungs and nasal cavity.
NOAEL (inhalation,rat,dust/mist/fume, 2 years)	0.2 (6 hrs/day 5 days/week). Irritation to lungs and nasal cavity

#### Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

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Polyisocyanate Prepolymer based on MDI (67815-87-6)		
Same as Original Gorilla Glue. See above.		
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9	9)	
Same as Original Gorilla Glue. See above.		
4,4'-Diphenymethane diisocyanate (101-68-8)		
LD50 Oral Rat	7616 mg/kg	
LD50 Dermal Rabbit	> 9400 mg/kg	
LC50 Inhalation Rat	0.368 mg/l/4h	
Additional information	For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified	
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447	-40-5)	
Same as Original Gorilla Glue. See above.		
Additive (Trade Secret)		
LD50 Oral Rat	2200 mg/kg	
LD50 Dermal Rabbit	1410 mg/kg	
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)		
IARC Group	3	
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)		
IARC Group	3	
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)		
IARC Group	3	

# SECTION 12: ECOLOGICAL INFORMATION

# **Toxicity**

**Ecology - General:** Ecotoxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers).

Toxicity to Fish			
LC0 (Canio rerio (zebra fish))	> 1000 mg/l, 96 h		
LC0 (Oryzias latipes (Orange-red killfish))	> 3000 mg/l, 96 h		
Toxicity to Aquatic Invertebrates	Toxicity to Aquatic Invertebrates		
EC50 (Water flea (daphnia magna))	> 1000 mg/l, 24 h		
Toxicity to Aquatic Plants			
NOEC	1640 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 h)		
Toxicity to Microorganisms			
EC50 (activated sludge)	> 100 mg/l, 3 h		
4,4'-Diphenymethane diisocyanate (101-68-8)			
Toxicity to Fish			
LC50 (Zebra fish (Brachydanio rerio))	> 500 mg/l, 24 h		
Toxicity to Aquatic Invertebrates	Toxicity to Aquatic Invertebrates		
EC50 (Water flea (daphnia magna))	> 500 mg/l, 24 h		



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Additive	
Toxicity to Fish	
LC50 (Fathead minnow (Pimephales promelas))	134 mg/l, 96 h

## Persistence and Degradability

Polymeric MDI	
Persistence and Degradability	Biodegradation for this product was 0%, exposure time: 28 days, i.e. not degradable.
Biodegradation	0 % after 28 days

# **Bioaccumulative Potential**

Polymeric MDI	
BCF fish 1	< 1 Oncorhynchus mykiss (rainbow trout), Exposure time: 112 d (does not bioaccumulate)

# Mobility in Soil Not available

## **Other Adverse Effects**

Other Information: Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

# **SECTION 14: TRANSPORT INFORMATION**

In Accordance with IMDG
In Accordance with IMDG
In Accordance with IATA
In Accordance with TDG

Not regulated for transport
Not regulated for transport
Not regulated for transport

# **SECTION 15: REGULATORY INFORMATION**

# **US Federal Regulations**

Original Gorilla Glue		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Polyisocyanate Prepolymer based on MDI (67815-87-6)		
Listed on the United States TSCA (Toxic Substances Control	Act) inventory	
Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313		
SARA Section 313 - Emission Reporting	1.0 %	
4,4'-Diphenymethane diisocyanate (101-68-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313		
SARA Section 313 - Emission Reporting	1.0 %	
Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)		
Listed on the United States TSCA (Toxic Substances Control	Listed on the United States TSCA (Toxic Substances Control Act) inventory	

# **US State Regulations**

# **Original Gorilla Glue**

## State or local regulations

This product contains a trace (ppm) amount of phenyl isocyanate (CAS # 103-71-9) and monochlorobenzene (CAS # 108-90-7) as impurities. California Prop 65: Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Weight % Component CAS #

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 <1 ppm</td>
 Acetaldehyde
 75-07-0

 1-5 ppm
 Furan
 110-00-9

 <1 ppm</td>
 Propylene Oxide
 75-56-9

#### Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

# 4,4'-Methylenediphenyl diisocyanate (101-68-8)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

# Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List

# **Canadian Regulations**

# Original Gorilla Glue

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects





## Polyisocyanate Prepolymer based on MDI (67815-87-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

# 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 0.1 %

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

# Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 04/27/18

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.



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#### **GHS Full Text Phrases:**

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

## **HMIS**

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

## Party Responsible for the Preparation of This Document

The Gorilla Glue Company +1 513-271-3300

The information presented in this Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

Original Gorilla Glue NA GHS SDS



# **SAFETY DATA SHEET**

# THE DOW CHEMICAL COMPANY

Product name: GREAT STUFF™ Big Gap Filler Insulating Issue Date: 06/07/2018

Foam Sealant 12oz HC EF STW QP 144ct

**Print Date:** 06/11/2018

THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# 1. IDENTIFICATION

Product name: GREAT STUFF™ Big Gap Filler Insulating Foam Sealant 12oz HC EF STW QP 144ct

Recommended use of the chemical and restrictions on use

**Identified uses:** Polyurethane foam.

**COMPANY IDENTIFICATION** 

THE DOW CHEMICAL COMPANY 2030 DOW CENTER MIDLAND MI 48674-0000 UNITED STATES

Customer Information Number: 800-258-2436

SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER** 

**24-Hour Emergency Contact:** CHEMTREC +1 800-424-9300

Local Emergency Contact: 800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Hazard classification

GHS classification in accordance with 29 CFR 1910.1200

Flammable aerosols - Category 2

Gases under pressure - Liquefied gas

Skin irritation - Category 2

Eye irritation - Category 2B

Respiratory sensitisation - Category 1

Skin sensitisation - Category 1

Effects on or via lactation

Specific target organ toxicity - single exposure - Category 3

Specific target organ toxicity - repeated exposure - Category 2 - Inhalation

Label elements

**Hazard pictograms** 









Issue Date: 06/07/2018

Signal word: DANGER!

## **Hazards**

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin and eye irritation.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause harm to breast-fed children.

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

# **Precautionary statements**

## Prevention

Obtain special instructions before use.

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

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

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

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

Avoid contact during pregnancy/ while nursing.

Wash skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

In case of inadequate ventilation wear respiratory protection.

# Response

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

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

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

#### Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### **Disposal**

Dispose of contents/ container to an approved waste disposal plant.

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# Other hazards

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CASRN	Concentration		
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	57029-46-6	>= 30.0 - <= 60.0 %		
Diphenylmethane Diisocyanate, isomers and homologues	9016-87-9	>= 10.0 - <= 30.0 %		
Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer	53862-89-8	>= 10.0 - <= 30.0 %		
Tris(1-chloro-2-propyl) phosphate	13674-84-5	>= 5.0 - <= 10.0 %		
Paraffin waxes and Hydrocarbon waxes, chlorinated	63449-39-8	>= 5.0 - <= 10.0 %		
Isobutane	75-28-5	>= 5.0 - <= 10.0 %		
4,4'-Methylenediphenyl diisocyanate	101-68-8	>= 5.0 - <= 10.0 %		
Methyl ether	115-10-6	>= 1.0 - <= 5.0 %		
Propane	74-98-6	>= 1.0 - <= 5.0 %		
••				

Note

Note: CAS 101-68-8 is an MDI isomer that is part of CAS 9016-87-9.

# 4. FIRST AID MEASURES

# Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Sealant 12oz HC EF STW QP 144ct

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

**Skin contact:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. 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. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

# Indication of any immediate medical attention and special treatment needed

Notes to physician: Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Repeated excessive exposure may aggravate preexisting lung disease. Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Exposure may increase "myocardial irritability". Do not administer sympathomimetic drugs such as epinephrine unless absolutely necessary. If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. Although cholinesterase depression has been reported with this material, it is not of benefit in determining exposure and need not be considered in the treatment of persons exposed to the material. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

# 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**Unsuitable extinguishing media:** Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

Special hazards arising from the substance or mixture

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Isocyanates. Hydrogen chloride. Carbon monoxide. Carbon dioxide. Hydrogen cyanide.

**Unusual Fire and Explosion Hazards:** Contains flammable propellant. Aerosol cans exposed to fire can rupture and become flaming projectiles. Propellant release may result in a fireball. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Dense smoke is produced when product burns.

# Advice for firefighters

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Do not use direct water stream. May spread fire. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Use water spray to cool fire-exposed containers and fire-affected zone until fire is out.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep personnel out of low areas. Keep personnel out of confined or poorly ventilated areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. For large spills, warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers. See Section 10 for more specific information. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Confined space entry procedures must be followed before entering the area. Refer to section 7, Handling, for additional precautionary measures.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Ground and bond all containers and handling equipment. Isolate area until gas has dispersed. Use non-sparking tools in cleanup operations. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Collect in suitable and properly labeled containers. Absorb with materials such as: Clay. Dirt. Milsorb®. Sand. Sawdust. Vermiculite. See Section 10 for more specific information. See Section 13, Disposal Considerations, for additional information.

# 7. HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat, sparks and flame. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Contents under pressure. Do not puncture or incinerate container. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Do not enter confined spaces unless adequately ventilated. Never use air pressure for transferring product. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Conditions for safe storage:** Minimize sources of ignition, such as static build-up, heat, spark or flame. Store in a dry place. See Section 10 for more specific information.

Storage stability

Storage temperature: Storage Period: 25 °C (77 °F) 12 Month

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Isobutane	ACGIH	STEL	1,000 ppm
4,4'-Methylenediphenyl diisocyanate	Dow IHG	TWA	0.005 ppm
•	Dow IHG	STEL	0.02 ppm
	ACGIH	TWA	0.005 ppm
	OSHA Z-1	С	0.2 mg/m3 0.02 ppm
Methyl ether	US WEEL	TWA	1,000 ppm
Propane	ACGIH		Asphyxiant
	OSHA Z-1	TWA	1,800 mg/m3 1,000 ppm
	CAL PEL	PEL	1,800 mg/m3 1,000

This material contains a simple asphyxiant which may displace oxygen. Insure adequate ventilation to prevent an oxygen deficient atmosphere.

The minimum requirement of 19.5% oxygen at sea level (148 torr O2, dry air) provides an adequate amount of oxygen for most work assignments.

# **Exposure controls**

**Engineering controls:** Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Exhaust systems should be designed to move the air away

from the source of vapor/aerosol generation and people working at this point. The odor and irritancy of this material are inadequate to warn of excessive exposure. Lethal concentrations may exist in areas with poor ventilation.

# Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). **Skin protection** 

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Viton. Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory protection: Atmospheric levels should be maintained below the exposure guideline. When atmospheric levels may exceed the exposure guideline, use an approved airpurifying respirator equipped with an organic vapor sorbent and a particle filter. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator (air line or self-contained breathing apparatus). For emergency response or for situations where the atmospheric level is unknown, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Foam
Color Yellow
Odor Mild

Odor Threshold No test data available

pH Not applicable

Melting point/rangeNo test data availableFreezing pointNo test data available

Boiling point (760 mmHg) Not applicable

Flash point closed cup -104 °C (-155 °F) Estimated.

Evaporation Rate (Butyl Acetate No test data available

= 1)

**Flammability (solid, gas)**Not expected to form explosive dust-air mixtures.

Sealant 12oz HC EF STW QP 144ct

Lower explosion limitNo test data availableUpper explosion limitNo test data available

Vapor Pressure 1,151 kPa at 55 °C (131 °F) Calculated.

Relative Vapor Density (air = 1) No test data available

Relative Density (water = 1) 1.06 Estimated.

Water solubility Insoluble

Partition coefficient: n- No data available

octanol/water

Auto-ignition temperature No test data available

Decomposition temperature No test data available

Kinematic Viscosity

Not applicable

Explosive properties

Not explosive

Oxidizing properties No

Molecular weight No test data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical stability:** Stable under recommended storage conditions. See Storage, Section 7. Unstable at elevated temperatures.

**Possibility of hazardous reactions:** Can occur. Exposure to elevated temperatures can cause product to decompose and generate gas. This can cause pressure build-up and/or rupturing of closed containers. Acids.

Conditions to avoid: Avoid temperatures above 50 °C

Elevated temperatures can cause container to vent and/or rupture. Exposure to elevated temperatures can cause product to decompose.

**Incompatible materials:** Avoid contact with: Acids. Alcohols. Amines. Ammonia. Bases. Metal compounds. Strong oxidizers. Products based on diisocyanates like TDI and MDI react with many materials to release heat. The reaction rate increases with temperature as well as with increased contact; these reactions can become violent. Contact is increased by stirring or if the other material acts as a solvent. Products based on diisocyanates such as TDI and MDI are not soluble in water and will sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Toxic gases are released during decomposition.

# 11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Sealant 12oz HC EF STW QP 144ct

# **Acute toxicity**

# **Acute oral toxicity**

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Observations in animals include: Gastrointestinal irritation.

As product: Single dose oral LD50 has not been determined.

LD50, Rat, > 2,000 mg/kg Estimated.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

LD50, Rabbit, > 2,000 mg/kg Estimated.

#### Acute inhalation toxicity

In confined or poorly ventilated areas, vapor can easily accumulate and can cause unconsciousness and death due to displacement of oxygen. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs. May cause pulmonary edema (fluid in the lungs.) Effects may be delayed. May cause central nervous system depression. Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. Excessive exposure may increase sensitivity to epinephrine and increase myocardial irritability (irregular heartbeats). Decreased lung function has been associated with overexposure to isocyanates.

The LC50 has not been determined.,

#### Skin corrosion/irritation

Prolonged contact may cause moderate skin irritation with local redness. Material may stick to skin causing irritation upon removal. May stain skin.

# Serious eye damage/eye irritation

May cause moderate eye irritation.

May cause slight temporary corneal injury.

#### Sensitization

Skin contact may cause an allergic skin reaction.

Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization.

May cause allergic respiratory reaction.

MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized.

Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.

Specific Target Organ Systemic Toxicity (Single Exposure)

Sealant 12oz HC EF STW QP 144ct

Contains component(s) which are classified as specific target organ toxicant, single exposure, category 3.

# Specific Target Organ Systemic Toxicity (Repeated Exposure)

Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.

Contains component(s) which have been reported to cause effects on the following organs in animals: kidney

Liver.

# Carcinogenicity

Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/Polymeric MDI (6 mg/m3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

# **Teratogenicity**

In laboratory animals, MDI/polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses which were toxic to the mother. Contains component(s) which caused birth defects in laboratory animals only at doses toxic to the mother.

# Reproductive toxicity

Based on information for component(s): May cause harm to breastfed babies.

## Mutagenicity

In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity data on MDI are inconclusive. MDI was weakly positive in some in vitro studies; other in vitro studies were negative. Animal mutagenicity studies were predominantly negative.

# **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

Carcinogenicity

Component List Classification

Paraffin waxes and IARC Group 2B: Possibly carcinogenic to

Hydrocarbon waxes, humans

chlorinated

US NTP Reasonably anticipated to be a human

carcinogen

# 12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

## **Toxicity**

# Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Acute toxicity to fish

For this family of materials:

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Sealant 12oz HC EF STW QP 144ct

# **Diphenylmethane Diisocyanate, isomers and homologues**

# Acute toxicity to fish

The measured ecotoxicity 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/EL50/LL50 > 100 mg/L in the most sensitive species tested).

Based on information for a similar material:

LC50, Danio rerio (zebra fish), static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

# Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

# Acute toxicity to algae/aquatic plants

Based on information for a similar material:

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1,640 mg/l, OECD Test Guideline 201 or Equivalent

# Toxicity to bacteria

Based on information for a similar material:

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l

# Toxicity to soil-dwelling organisms

EC50, Eisenia fetida (earthworms), Based on information for a similar material:, 14 d, > 1,000 mg/kg

# **Toxicity to terrestrial plants**

EC50, Avena sativa (oats), Growth inhibition, 1,000 mg/l

EC50, Lactuca sativa (lettuce), Growth inhibition, 1,000 mg/l

# Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

#### Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

# Tris(1-chloro-2-propyl) phosphate

## Acute toxicity to fish

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50, Lepomis macrochirus (Bluegill sunfish), static test, 96 Hour, 84 mg/l, OECD Test Guideline 203 or Equivalent

# Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, 131 mg/l

# Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), static test, 96 Hour, Growth rate inhibition, 82 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, activated sludge, Respiration inhibition, 3 Hour, 784 mg/l, OECD 209 Test

Sealant 12oz HC EF STW QP 144ct

# Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 32 mg/l

# Paraffin waxes and Hydrocarbon waxes, chlorinated

# Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 0.1 mg/l

# Chronic toxicity to fish

Based on data from similar materials

NOEC, Oncorhynchus mykiss (rainbow trout), 60 d, 4.5 mg/l

#### <u>Isobutane</u>

#### Acute toxicity to fish

No relevant data found.

# 4,4'-Methylenediphenyl diisocyanate

# Acute toxicity to fish

The measured ecotoxicity 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/EL50/LL50 >100 mg/L in the most sensitive species tested).

Based on information for a similar material:

LC50, Danio rerio (zebra fish), static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

# Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

#### Acute toxicity to algae/aguatic plants

Based on information for a similar material:

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1,640 mg/l, OECD Test Guideline 201 or Equivalent

# Toxicity to bacteria

Based on information for a similar material:

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l

## Toxicity to soil-dwelling organisms

EC50, Eisenia fetida (earthworms), Based on information for a similar material:, 14 d, > 1,000 mg/kg

# **Toxicity to terrestrial plants**

EC50, Avena sativa (oats), Growth inhibition, 1,000 mg/l

EC50, Lactuca sativa (lettuce), Growth inhibition, 1,000 mg/l

# Methyl ether

Acute toxicity to fish

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Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Poecilia reticulata (guppy), semi-static test, 96 Hour, > 4,000 mg/l

# Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), 48 Hour, > 4,000 mg/l, OECD Test Guideline 202 or Equivalent

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#### **Propane**

# Acute toxicity to fish

No relevant data found.

# Persistence and degradability

# Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

**Biodegradability:** For this family of materials: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

# Diphenylmethane Diisocyanate, isomers and homologues

**Biodegradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas 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.

10-day Window: Not applicable

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302C or Equivalent

# Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

**Biodegradability:** Expected to degrade slowly in the environment.

# Tris(1-chloro-2-propyl) phosphate

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

10-day Window: Fail Biodegradation: 14 % Exposure time: 28 d

Method: OECD Test Guideline 301E or Equivalent

10-day Window: Not applicable

Biodegradation: 95 % Exposure time: 64 d

Method: OECD Test Guideline 302A or Equivalent

Theoretical Oxygen Demand: 1.17 mg/mg

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 0.24 d

Method: Estimated.

## Paraffin waxes and Hydrocarbon waxes, chlorinated

Sealant 12oz HC EF STW QP 144ct

Biodegradability: Expected to degrade slowly in the environment.

For similar material(s): Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Theoretical Oxygen Demand: 2.89 mg/mg

## **Isobutane**

Biodegradability: Biodegradation may occur under aerobic conditions (in the presence of

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oxygen).

Theoretical Oxygen Demand: 3.58 mg/mg

**Photodegradation** 

**Test Type:** Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 4.4 d

Method: Estimated.

#### 4,4'-Methylenediphenyl diisocyanate

**Biodegradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas 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.

10-day Window: Not applicable

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302C or Equivalent

# Methyl ether

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail **Biodegradation:** 5 % **Exposure time:** 28 d

Method: OECD Test Guideline 301A or Equivalent

Theoretical Oxygen Demand: 2.08 mg/mg

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 6.4 d

Method: Estimated.

#### **Propane**

Biodegradability: No relevant data found.

Theoretical Oxygen Demand: 3.64 mg/mg

**Photodegradation** 

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Sealant 12oz HC EF STW QP 144ct

**Test Type:** Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 8.4 d

Method: Estimated.

# Bioaccumulative potential

# Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Bioaccumulation: No relevant data found.

# Diphenylmethane Diisocyanate, isomers and homologues

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas. **Bioconcentration factor (BCF):** 92 Cyprinus carpio (Carp) 28 d

Issue Date: 06/07/2018

# Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

**Bioaccumulation:** In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

# Tris(1-chloro-2-propyl) phosphate

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.59 Measured

Bioconcentration factor (BCF): 0.8 - 4.6 Cyprinus carpio (Carp) 42 d Measured

# Paraffin waxes and Hydrocarbon waxes, chlorinated

**Bioaccumulation:** Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7)

Partition coefficient: n-octanol/water(log Pow): 7.4 Estimated.

# Isobutane

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.76 Measured

#### 4.4'-Methylenediphenyl diisocyanate

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d

# Methyl ether

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.10 Measured

# **Propane**

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.36 Measured

#### Mobility in soil

# Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

No relevant data found.

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Sealant 12oz HC EF STW QP 144ct

#### Diphenylmethane Diisocyanate, isomers and homologues

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

## Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

# Tris(1-chloro-2-propyl) phosphate

Potential for mobility in soil is slight (Koc between 2000 and 5000).

Partition coefficient (Koc): 1300 Estimated.

# Paraffin waxes and Hydrocarbon waxes, chlorinated

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient (Koc): > 5000 Estimated.

#### Isobutane

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 35 Estimated.

## 4,4'-Methylenediphenyl diisocyanate

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

## Methyl ether

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 1.29 - 14 Estimated.

# **Propane**

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 24 - 460 Estimated.

# 13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

Sealant 12oz HC EF STW QP 144ct

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name
UN number
UN 1950
Class
Aerosols
UN 1950
2.1

**Packing group** 

Classification for SEA transport (IMO-IMDG):

Proper shipping name AEROSOLS UN number UN 1950 Class 2.1

Packing group

Marine pollutantParaffin waxes and Hydrocarbon waxes, chlorinatedTransport in bulkConsult IMO regulations before transporting ocean bulk

according to Annex I or II of MARPOL 73/78 and the

**IBC or IGC Code** 

Classification for AIR transport (IATA/ICAO):

**Proper shipping name** Aerosols, flammable

UN number UN 1950 Class 2.1

Packing group

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# 15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Flammable (gases, aerosols, liquids, or solids)

Gases under pressure

Skin corrosion or irritation

Serious eye damage or eye irritation

Respiratory or skin sensitisation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

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Sealant 12oz HC EF STW QP 144ct

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Issue Date: 06/07/2018

ComponentsCASRNDiphenylmethane Diisocyanate, isomers and homologues9016-87-94,4'-Methylenediphenyl diisocyanate101-68-8

# Pennsylvania Worker and Community Right-To-Know Act:

The following chemicals are listed because of the additional requirements of Pennsylvania law:

ComponentsCASRNIsobutane75-28-5Methyl ether115-10-6Propane74-98-6

# California Prop. 65

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

# **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

# 16. OTHER INFORMATION

#### Revision

Identification Number: 99055687 / A001 / Issue Date: 06/07/2018 / Version: 8.1

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this

document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
Asphyxiant	Asphyxiant
С	Ceiling
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article
	107)
Dow IHG	Dow Industrial Hygiene Guideline
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
PEL	Permissible exposure limit
STEL	Short term exposure limit
TWA	Time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

#### Full text of other abbreviations

Sealant 12oz HC EF STW QP 144ct

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DOT - Department of Transportation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

# **Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturerspecific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version. US

**CANTEX** 

#### GHS SAFETY DATA SHEET

CANTEX No. 99 - GRAY PVC Cement for Plastic Pipe

Date Revised: SEP 2018 MAR 2017

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

CANTEX No. 99 - GRAY PVC Cement for Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

Precautionary Statements

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

#### SECTION 2 - HAZARDS IDENTIFICATION

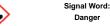
#### GHS CLASSIFICATION:

	<u>Health</u>	<u>Er</u>	vironmental	<u>Physical</u>	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2				

#### GHS LABEL:







WHMIS CLASSIFICATION: CLASS B. DIVISION 2

CLASS D, DIVISION 2B

Hazard Statements H225: Highly flammable liquid and vapo

H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

EUH019: May form explosive peroxides

P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention

P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS #	EINECS #	REACH	CONCENTRATION
	<u></u>		Registration Number	% by Weight
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	25 - 40
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	20 - 30
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	15 - 25
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	10 - 20

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

\* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

#### SECTION 4 - FIRST AID MEASURES

Contact with eyes: Skin contact:

Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages,

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Skin Contact: Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: THF: Category 2 Carcinogen

# **SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media: 0-Minimal Dry chemical powder, carbon dioxide gas, foam, Halon, water fog HMIS NFPA Unsuitable Extinguishing Media: Water spray or stream. 1-Slight Health 2 Exposure Hazards: Flammability Inhalation and dermal contact 3 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious В

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Personal precautions Keep away from heat, sparks and open flame.

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. **Environmental Precautions:** 

Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel Methods for Cleaning up:

Materials not to be used for clean up: Aluminum or plastic containers

# SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Storage: Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature

# SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	Ceiling	CAL/OSHA STEL	
	Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm	Ī
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E	
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	

**Engineering Controls:** Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Eve Protection:

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local Respiratory Protection:

exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

**CANTEX** 

#### **GHS SAFETY DATA SHEET**

Date Revised: SEP 2018 CANTEX No. 99 - GRAY PVC Cement for Plastic Pipe MAR 2017

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray, medium syrupy liquid

Odor: Odor Threshold: 0.88 ppm (Cyclohexanone) Ketone pH: Not Applicable

-108.5°C (-163.3°F) Based on first melting component: THF Melting/Freezing Point: **Boiling Range:** 56°C (133°F) to 156°C (313°F)

Boiling Point: 56°C (133°F) Based on first boiling component: Acetone > 1.0 (BUAC = 1) **Evaporation Rate:** Flash Point: -20°C (-4°F) TCC based on Acetone Flammability:

Category 2

Specific Gravity: 0.904 @ 23°C (73°F) Flammability Limits: Solvent portion soluble in water. Resin portion separates out. Solubility:

LEL: 1.1% based on Cyclohexanone
UEL: 12.8% based on Acetone Partition Coefficient n-octanol/w Not Available Vapor Pressure: 190 mm Hg @ 20°C (68°F) Acetone

Auto-ignition Temperature: 321°C (610°F) based on THF Vapor Density: >2.0 (Air = 1) **Decomposition Temperature:** Not Applicable Other Data: Viscosity: Medium bodied

When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l. VOC Content:

SECTION 10 - STABILITY AND REACTIVITY

Incompatible Materials:

Stability:

None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke Hazardous decomposition products:

Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

SECTION 11 - TOXICOLOGICAL INFORMATION

Oxidizers, strong acids and bases, amines, ammonia Toxicity: Target Organs

Acetone Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m3 (rat) STOT SE3 Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8.000 PPM (rat)

Methyl Ethyl Ketone (MEK) Tetrahydrofuran (THF) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3 Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m³ (rat) STOT SE3

Reproductive Effects Teratogenicity Mutagenicity **Embryotoxicity** Sensitization to Product Synergistic Products Not Established Not Established Not Established Not Established Not Established Not Established

**SECTION 12 - ECOLOGICAL INFORMATION** 

Ecotoxicity: None Known In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of  $\leq$  510 g/l. Mobility:

Degradability: Not readily biodegradable Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

**SECTION 14 - TRANSPORT INFORMATION** 

Proper Shipping Name: Hazard Class: 3 EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Secondary Risk: None

Identification Number: Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" UN 1133

Packing Group: PG II

Class 3 Flammable Liquid TDG INFORMATION Label Required:

Marine Pollutant: TDG CLASS: FLAMMABLE LIQUID 3 NO

ADHESIVES UN 1133, PG II SHIPPING NAME: UN NUMBER/PACKING GROUP:

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Symbols: AICS, Korea ECL/TCCL, Japan MITI (ENCS) R66: Repeated exposure may cause skin dryness or cracking Risk Phrases: R11: Highly flammable

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S2: Keep out of the reach of children S25: Avoid contact with eves.

S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33: Take precautionary measures against static discharges. S16: Keep away from sources of ignition - No smoking.

SECTION 16 - OTHER INFORMATION

Specification Information: All ingredients are compliant with the requirements of the European

Department issuing data sheet: Safety Health & Environmental Affairs Directive on RoHS (Restriction of Hazardous Substances)

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 9/25/2018 / Updated GHS Standard Format Intended Use of Product: Solvent Cement for PVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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Revision Date: 18 Jan 2017

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# SAFETY DATA SHEET

**SECTION 1** 

## PRODUCT AND COMPANY IDENTIFICATION

As of the revision date above, this (M)SDS meets the regulations in Philippines.

**PRODUCT** 

Product Name: MOBIL DTE 13M

**Product Description:** Base Oil and Additives

**Product Code:** 201560101515, 602698

Intended Use: Hydraulic fluid

**COMPANY IDENTIFICATION** 

Supplier: HH Asia Trading Incorporated

3/F Goodyear Hi-Performance Center Building

Alabang-Zapote Road

Las Piñas City 1750 Philippines

Supplier General Contact +63 2 772 4321

Chemtrec CCN Number CHEMTREC International (+1 703-527-3887) / Philippines

accessible (1-800-1-116-1020) / Manila accessible (+63)

632-395-3308

Supplier: Kupler DCMC Philippines, Corp.

Paradise Road Km. 9 Sasa

Davao City 8000 Philippines

Supplier General Contact +6382-234-9018

Supplier: North Trend Marketing Corporation

46 Arca St.

Juan Luna Avenue

Mabolo, Cebu City 6000 Philippines

Supplier General Contact +63-32-2318815

Supplier: North Trend Marketing Corporation

North Trend Marketing Corporation Unit 506 5th Floor Venture Bldg. Market St. Madrigal Business Park

Alabang, Muntinlupa City Philippines

Supplier General Contact +63 2 805-1191

SECTION 2 HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).



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## Other hazard information:

## PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

#### **ENVIRONMENTAL HAZARDS**

No significant hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

# SECTION 3

## **COMPOSITION / INFORMATION ON INGREDIENTS**

This material is defined as a mixture.

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

Name	CAS#	Concentration*	GHS Hazard Codes
HYDROTREATED LIGHT PARAFFINIC DISTILLATES,	64742-55-8	20 - < 30%	H304
PETROLEUM			
NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT	57855-77-3	0.1 - < 1%	H315, H318, H317

<sup>\*</sup> All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

# SECTION 4 FIRST AID MEASURES

# **INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### **SKIN CONTACT**

Wash contact areas with soap and water. 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 be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

## **EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### **INGESTION**



Revision Date: 18 Jan 2017

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First aid is normally not required. Seek medical attention if discomfort occurs.

## **NOTE TO PHYSICIAN**

None

# **SECTION 5**

# **FIRE FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke,

Fume, Sulfur oxides

# FLAMMABILITY PROPERTIES

Flash Point [Method]: >175°C (347°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

#### **SECTION 6**

#### **ACCIDENTAL RELEASE MEASURES**

## **NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

# **PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic



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material is recommended.

## **SPILL MANAGEMENT**

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

# **SECTION 7**

## HANDLING AND STORAGE

#### **HANDLING**

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

#### **STORAGE**

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

# **SECTION 8**

# EXPOSURE CONTROLS / PERSONAL PROTECTION

# **EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

Form	Limit / Standard			Note	Source
Mist.	TWA	5 mg/m3			Philippines OELs
Inhalable	TWA	5 mg/m3			ACGIH
fraction.					
Mist.	TWA	5 mg/m3			ACGIH
	Mist. Inhalable fraction.	Mist. TWA  Inhalable fraction.	Mist. TWA 5 mg/m3  Inhalable fraction. TWA 5 mg/m3	Mist. TWA 5 mg/m3  Inhalable fraction. 5 mg/m3	Mist. TWA 5 mg/m3  Inhalable fraction. TWA 5 mg/m3



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PARAFFINIC DISTILLATES,
PETROLEUM

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following is recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction).

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation. Particulate

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use. Nitrile, Viton

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

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

# **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and



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soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

# **SECTION 9**

# **PHYSICAL AND CHEMICAL PROPERTIES**

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

## **GENERAL INFORMATION**

Physical State: Liquid

Form: Clear
Color: Brown
Odor: Characteristic
Odor Threshold: N/D

#### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 °C): 0.874 Flammability (Solid, Gas): N/A

Flash Point [Method]: >175°C (347°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D
Boiling Point / Range: N/D
Decomposition Temperature: N/D
Vapor Density (Air = 1): > 2 at 101 kPa

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C

Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

Solubility in Water: Negligible

Viscosity: 32 cSt (32 mm2/sec) at 40 °C

Oxidizing Properties: See Hazards Identification Section.

#### OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A

Pour Point: -42°C (-44°F)

DMSO Extract (mineral oil only), IP-346: < 3 %wt

# **SECTION 10**

# STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.



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## **SECTION 11**

## **TOXICOLOGICAL INFORMATION**

## **INFORMATION ON TOXICOLOGICAL EFFECTS**

Hazard Class	Conclusion / Remarks				
Inhalation					
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.				
material.					
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.				
Ingestion					
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.				
material.					
Skin					
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.				
Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on				
for material.	assessment of the components.				
Eye					
Serious Eye Damage/Irritation: No end point	May cause mild, short-lasting discomfort to eyes. Based on				
data for material.	assessment of the components.				
Sensitization					
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.				
Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on assessment of the				
material.	components.				
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.				
Germ Cell Mutagenicity: No end point data	Not expected to be a germ cell mutagen. Based on assessment of				
for material.	the components.				
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the				
material.	components.				
Reproductive Toxicity: No end point data	Not expected to be a reproductive toxicant. Based on assessment				
for material.	of the components.				
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.				
Specific Target Organ Toxicity (STOT)					
Single Exposure: No end point data for	Not expected to cause organ damage from a single exposure.				
material.	Not expected to equal organ demand from prolonged as series and				
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated				
materiai.	exposure. Based on assessment of the components.				

#### OTHER INFORMATION

## For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components or similar formulations.

## Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.



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## IARC Classification:

The following ingredients are cited on the lists below: None.

-- REGULATORY LISTS SEARCHED--

1 = IARC 1 2 = IARC 2A 3 = IARC 2B

### **SECTION 12**

### **ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

### **ECOTOXICITY**

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 the land. Expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

#### **Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

### **BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

## **SECTION 13**

## **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, 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.



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### **SECTION 14**

### TRANSPORT INFORMATION

**LAND**: Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

## **SECTION 15**

## **REGULATORY INFORMATION**

This material is not considered hazardous according to the Classification of Chemicals based on Globally Harmonized System of Classification and Labelling of Chemicals (GHS) under the Joint DTI-DENR-DA-DOF-DOH-DILG-DOLE-DOTC Administrative Order No. 01 Series of 2009 by ministries.

#### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Product is under Philippines PCL/CCO: Not Regulated Ozone Depleting Substances (ODS) (Chemical Control Order, DENR Admin. Order No. 2013-25): Not Regulated

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

## **SECTION 16**

## OTHER INFORMATION

### N/D = Not determined, N/A = Not applicable

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H315: Causes skin irritation: Skin Corr/Irritation. Cat 2

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:** Powerstar Trading Incorporated: Section 01: Supplier Mailing Address information was deleted.

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DGN: 7061134XPH (1010790)

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## **Section 1: Information**

Product Name	GB LIQUID TAPE 4 - OZ. Black	
Product Code(s)	LTB-400	
Recommended Usage	Not available	
Manufacturer/Distributor	Power Products LLC (dba Gardner Bender)	
Address		
	Menomonee Falls, WI 53051	
Website	e www.powerprodllc.com	
Telephone Number	er 1-800-624-4320	
<b>EMERGENCY Telephone Number</b>	Chemtrec: (24/7) 800-424-9300 Or International 703-527-3887	

## **Section 2: Hazard Identification**

Physical hazards	Flammable liquids Category 2			
Health hazards	Acute toxicity, dermal Category 4			
	Acute toxicity, inhalation Category 4			
	Skin corrosion/irritation Category 2			
	Serious eye damage/eye irritation Category 2A			
	Carcinogenicity Category 2			
	Reproductive toxicity Category 2			
	Specific target organ toxicity, repeated exposure Category 1			
Environmental hazards	Hazardous to the aquatic environment, acute hazard Category 3			
	Hazardous to the aquatic environment, long term hazard Category 3			
OSHA defined hazards	Not classified.			
Label elements				
Signal word	Danger			
Hazard statement	Highly flammable liquid and vapor. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.			
Precautionary statement	Obtain special instructions before use. Do not handle until all safety			
Prevention	precautions have been read and understood. Do not breathe mist or			
	vapor. Wash thoroughly after handling. Do not eat, drink or smoke			
	when using this product. Use only outdoors or in a well-ventilated			
	area. Avoid release to the environment. Wear protective			
	gloves/protective clothing/eye protection/face protection.			
Response	If on skin (or hair): Take off immediately all contaminated clothing.			
	Rinse skin with water/shower.			





















If inhaled: Remove person to fresh air and keep comfortable for breathing.				
If in eyes: Rinse cautiously with water for several minutes. Remove				
contact lenses, if present and easy to do. Continue rinsing.				
If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.				
If skin irritation occurs: Get medical advice/attention.				
If eye irritation persists: Get medical advice/attention.				
Take off contaminated clothing and wash before reuse. In case of fire:				
Use appropriate media to extinguish.				
Store in a well-ventilated place. Keep cool. Store locked up				
Dispose of contents/container in accordance with				
local/regional/national/international regulations.				
None known.				
74.66% of the mixture consists of component(s) of unknown acute				
dermal toxicity. 82.6% of the mixture consists of component(s) of				
unknown acute inhalation toxicity. 82.6% of the mixture consists of				
component(s) of unknown acute hazards to the aquatic environment.				
82.6% of the mixture consists of component(s) of unknown long-				
term hazards to the aquatic environment.				

# Section 3 - Composition/Information on Ingredients

Hazardous Components				
Chemical Name	Identifiers (CAS)	% (weight)		
ALIPHATIC PETROLEUM DISTILLATES	64742-89-8	30 to <40		
XYLENE	1330-20-7	10 to <20		
METHYL ETHYL KETONE	78-93-3	5 to <10		
ETHYLBENZENE	100-41-4	1 to <5		
CARBON BLACK	1333-86-4	0.1 to < 1		
Other components below reportable levels		30 to <40		
*Designates that a specific chemical identity and/or percentage of composition has been withheld as a				

trade secret.





















## **Section 4: First-Aid Measures**

Descriptions of First Aid Measures			
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.		
Skin	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.		
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.		

# **Section 5: Fire-Fighting Measures**

Extinguishing Media				
Suitable Extinguishing Media Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder,				
	carbon dioxide, sand or earth may be used for small fires only.			
<b>Unsuitable Extinguishing Media</b> Do not use water jet as an extinguisher, as this will spread the fi				

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel	
	considerable distance to a source of ignition and flash back. This	
	product is a poor conductor of electricity and can become	
	electrostatically charged. If sufficient charge is accumulated, ignition	
	of flammable mixtures can occur. To reduce potential for static	
	discharge, use proper bonding and grounding procedures. This	
	liquid may accumulate static electricity when filling properly	





















grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water
or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  Mayo containers from fire area if you can do so without risk
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.  In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

## **Section 6 - Accidental Release Measures**

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind				
protective equipment and	of spill/leak. Wear appropriate protective equipment and clothing				
emergency procedures	during clean-up. Do not breathe mist or vapor. 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.				
Methods and materials for	Eliminate all ignition sources (no smoking, flares, sparks, or flames in				
containment and cleaning	immediate area). Take precautionary measures against static discharge.				
up	Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.)				
	away from spilled material.				
	<b>Large Spills:</b> Stop the flow of material, if this is without risk. Dike the				
	spilled material, where this is possible. Cover with plastic sheet to				
	prevent spreading. Absorb in vermiculite, dry sand or earth and place				
	into containers. Prevent product from entering drains. Following				
	product recovery, flush area with water.				
	<b>Small Spills:</b> Wipe up with absorbent material (e.g. cloth, fleece). Clean				
	surface thoroughly to remove residual contamination.				
	Never return spills to original containers for re-use. For waste disposal,				
	see section 13 of the SDS.				
<b>Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if				
Environmental precautions	safe to do so. Avoid discharge into drains, water courses or onto the				
	· · · · · · · · · · · · · · · · · · ·				
	ground. Inform appropriate managerial or supervisory personnel of all				
	environmental releases.				





















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

## Precautions for safe Obtain special instructions before use. Do not handle until all safety handling precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or **National**

Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a wellventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).





















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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)						
Components			Type	Value	Form	
ETHYLBENZENE (CAS 100-41-4)		PEL		435 mg/m	13	
ETHTEDENZENE (CAS 100-41-4)				100 ppm		
METHYL ETHYL KETONE (CAS 78-93-3)		PEL		590 mg/m	13	
				200 ppm		
CARBON BLACK (CAS 1333-86-4)			PEL	3.5 mg/m <sup>3</sup>		
XYLENE (CAS 1330-20-7)			PEL	435 mg/m	13	
,			1 22	100 ppm		
US. ACGIH Threshold Limit Values				T = -		
Components			Type		Value	
ETHYLBENZENE (CAS 100-41-4)			TWAs	20 ppm		
METHYL ETHYL KETONE (CAS 78-93-3)			STELs	300 ppm		
			TWAs		200 ppm	
CARBON BLACK (CAS 1333-86-4)			TWAs	3 mg/m3 (Inhalable fraction)		
XYLENE (CAS 1330-20-7)			STELs	150 ppm		
, ,	_		TWAs	100 ppm		
US. NIOSH: Pocket Guide to Chemical Haz	ards					
Components			Type	Value		
CARBON BLACK (CAS 1333-86-4)			TWAs	0.1 mg/m3		
			STELs	545 mg/m3		
ETHYLBENZENE (CAS 100-41-4)				125 ppm		
(		TWAs	435 mg/m3			
				100 ppm		
			STELs	885 mg/m3		
METHYL ETHYL KETONE (CAS 78-93-3)				300 ppm		
			TWAs	590 mg/m3		
ACCILI Dialogical Espaces Indiae				200 ppm		
ACGIH Biological Exposure Indices	X7-1	D-4			C	
Components	Value		minant	. 1 1	Specimen	
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	15 g/g Sum of mandelic acid and phenylglyoxylic acid Cre		Creatinine in urine		
METHYL ETHYL KETONE (CAS 78-93-3)	2 mg/l	1 101			Urine	
XYLENE (CAS 1330-20-7)	, 0,		lhippuric a	cids	Creatinine in urine	
* For campling details places see the source document						

<sup>\*</sup> For sampling details please see the source document

Exposure controls		
Appropriate engineering	Explosion-proof general and local exhaust ventilation. Good	
controls general ventilation (typically 10 air changes per hour) should		
	used. Ventilation rates should be matched to conditions. If	
	applicable, use process enclosures, local exhaust ventilation, or	





















	other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Personal Protective Equipment	
Respiratory	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Eye/Face	Wear safety glasses with side shields (or goggles).
Hands	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Other	Wear appropriate chemical resistant clothing.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## **Section 9 - Physical and Chemical Properties**

Information on Physical and Chemical Properties			
Appearance (physical	Liquid, Liquid,	Upper/lower flammability or	U - 1.8 % / NDA
state, color, etc.)	NDA	explosive limits	L – 10% / NDA
Odor	NDA	Density	7.16 lbs/gal
Odor Threshold	NDA	Specific Gravity	0.85
рН	NDA	Vapor pressure	49.87 hPa
Melting / Freezing Point	-123.95 °F	Solubility in Water	NDA
<b>Initial Boiling Point</b>	175.26 °F		
Volatiles by Wt. (%):	74.32	VOC - (Regulatory &	5.2843253 lbs/gal
Flammability Class	Flammable IB est.	Material)	633.20146 g/l
Auto-ignition	759.2 °F	Flash Point	15.0 °F (-9.4 °C)
temperature		riasii ruiit	
Viscosity	NDA		

# **Section 10: Stability and Reactivity**

Reactivity	The product is stable and non-reactive under normal conditions		
	of use, storage and transport		
<b>Chemical Stability</b>	Material is stable under normal conditions.		
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Conditions to avoid	Contact with incompatible materials.		
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens. Ammonia.		



















	Amines. Isocyanates. Caustics.
Hazardous decomposition products	No hazardous decomposition products are known.

# **Section 11 - Toxicological Information**

Information on toxicological effects			
Component Name	Acute	Species	Test Results
CARBON BLACK (CAS 1333-86-4)	Oral – LD50	Rat	>8000 mg/kg
ETHVI DENZENE (CAC 100 41 4)	Dermal – LD50	Rabbit	17800 mg/kg
ETHYLBENZENE (CAS 100-41-4)	Oral – LD50	Rat	3500 mg.kg
	Dermal – LD50	Rabbit	>8000 mg/kg
	Inhalation – LC50	Mouse	11000 ppm, 45 minutes
METHYL ETHYL KETONE (CAS 78-93-3)		Rat	117000 ppm, 4 hours
	Oral – LD50	Mouse	370 mg/kg
		Rat	2300 – 3500 mg/kg
	Dermal – LD50	Rabbit	>43 mg/kg
	Inhalation – LC50	Mouse	3907 mg/l, 6 hours
XYLENE (CAS 1330-20-7)		Rat	6350 mg/l, 4 hours
	Oral – LD50	Mouse	1590 mg/kg
		Rat	3523 - 8600 mg.kg

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or		
	repeated exposure by inhalation.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye	Causes serious eye irritation.		
irritation			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at		
	greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall Ev	raluation of Carcinogenicity		
ETHYLBENZENE (CAS	<b>100-41-4)</b> 2B Possibly carcinogenic to humans.		
CARBON BLACK (CAS 1	1333-86-4) 2B Possibly carcinogenic to humans.		
XYLENE (CAS 1	1330-20-7) 3 Not classifiable as to carcinogenicity to humans.		
Reproductive toxicity	Components in this product have been shown to cause birth defects and		
	reproductive disorders in laboratory animals. Suspected of damaging		
	fertility or the unborn child.		
Specific target organ	Not classified.		
toxicity - single exposure			
Specific target organ	Causes damage to organs through prolonged or repeated exposure.		
toxicity - repeated exposure			
Aspiration hazard	Not an aspiration hazard.		





















Chronic effects	Causes damage to organs through prolonged or repeated exposure.
	Prolonged inhalation may be harmful. Prolonged exposure may cause.

# **Section 12 - Ecological Information**

<b>Ecotoxicity</b> Harmful to aquatic life with long lasting effects.			S.
Components	Aquatic	Species	Results
ETHYLBENZENE	Crustacea – EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
(CAS 100-41-4)	Fish – LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
METHYL ETHYL KETONE (CAS 78-93-3)	Crustacea – EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
	Fish – LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours
XYLENE (CAS 1330-20-7)	Fish – LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours
Bioaccumulative potential - Partition coefficient		ient n-octanol / water (log	g Kow)
ETHYLBENZENE (CAS 100-41-4)		3.15	
METHYL ETHYL KETONE (CAS 78-93-3)		0.29	
XYLENE (CAS 1330-20-7)		3.12 – 3.2	
Mobility in Soil		No data available.	
Other adverse effects			ental effects (e.g. ozone depletion, tential, endocrine disruption, global ed from this component.

# **Section 13 - Disposal Considerations**

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Section 14 - Transport Information** 





















DOT		
UN Number	UN1139	
UN Proper Shipping Name	Coating solution	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Label(s)	3	
Packing group	II	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	149, IB2, T4, TP1, TP8	
Packaging exceptions	150	
Packaging non bulk	202	
Packaging bulk	242	
IATA		
UN Number	UN1139	
UN Proper Shipping Name	Coating solution	
Transport hazard class(es)	County botation	
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards	No	
ERG Code	3L	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Other information		
Passenger and cargo Aircraft	Allowed	
Cargo aircraft only	Allowed	
IMDG		
UN Number	UN1139	
UN Proper Shipping Name	Coating solution	
Transport hazard class(es)	Ŭ	
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards Marine	No	
Pollutant		
EmS	Not Available	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Transport in bulk according to	Not Established	





















Annex II of MARPOL 73/78 and the IBC Code	
DOT	FLAMMABLE LIQUID  3
IATA & IMDG	3

# **Section 15 - Regulatory Information**

US federal regulations	This product is a "Hazardous Chemical" as defined		
os reuerur regulations	by the OSHA Hazard Communication		
	Standard, 29 CFR 1910.1200.		
	All components are on the U.S. EPA TSCA Inventory		
	List.		
TSCA Section 12(b) Export Notification	Not regulated.		
(40 CFR 707, Subpt. D)			
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>			
ETHYLBENZENE (CAS 100-41-4)	Listed		
METHYL ETHYL KETONE (CAS 78-93-3)	Listed		
XYLENE (CAS 1330-20-7)	Listed		
SARA 304 Emergency release notification	Not regulated.		
OSHA Specifically Regulated Substances	Not Listed		
(29 CFR 1910.1001-1050)			
<b>Superfund Amendments and Reauthorization Act</b>	` ,		
	Immediate Hazard - Yes		
	Delayed Hazard - Yes		
Hazard categories	Fire Hazard - No		
	Pressure Hazard - No		
	Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	Not Listed		
SARA 311/312 Hazardous Chemical	No		
SARA 313 (TRI reporting) - Component, CAS, % b	y Weight		
ETHYLBENZENE (CAS 100-41-4)	10 to < 20%		
XYLENE (CAS 1330-20-7)	1 to < 5%		
Clean Air Act (CAA) Section 112 Hazardous Air	ETHYLBENZENE (CAS 100-41-4)		
Pollutants (HAPs) List	XYLENE (CAS 1330-20-7)		
Clean Air Act (CAA) Section 112(r) Accidental	Not regulated.		





















Pologo Provention (40 CED (0 120)								
Release Prevention (40 CFR 68.130) Safe Drinking Water Act (SDWA)	Not regulated.							
	ŭ							
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number								
METHYL ETHYL KETONE (CAS 78-93-3) 6714								
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR								
1310.12(c))								
METHYL ETHYL KETONE (CAS 78-93-3)	35% WV							
<b>DEA Exempt Chemical Mixtures Code Number</b>								
METHYL ETHYL KETONE (CAS 78-93-3)	6714							
US. California. Candidate Chemicals List. Safer C	onsumer Products Regulations							
(Cal. Code Regs, tit. 22, 69502.3, subd. (a)) ALIPHATIC PETROLEUM DISTILLATES	64742-89-8							
	100-41-4							
ETHYLBENZENE METHYL ETHYL KETTONE								
METHYL ETHYL KETONE	78-93-3							
CARBON BLACK	1333-86-4							
XYLENE	1330-20-7							
US. Massachusetts RTK - Substance List	100.44							
ETHYLBENZENE	100-41-4							
METHYL ETHYL KETONE	78-93-3							
CARBON BLACK	1333-86-4							
XYLENE	1330-20-7							
US. New Jersey Worker and Community Right-to								
ETHYLBENZENE	100-41-4							
METHYL ETHYL KETONE	78-93-3							
CARBON BLACK	1333-86-4							
XYLENE	1330-20-7							
US. Pennsylvania Worker and Community Right	-to-Know Law							
ETHYLBENZENE	100-41-4							
METHYL ETHYL KETONE	78-93-3							
CARBON BLACK	1333-86-4							
XYLENE	1330-20-7							
US. Rhode Island RTK	<u> </u>							
ETHYLBENZENE	100-41-4							
METHYL ETHYL KETONE	78-93-3							
CARBON BLACK	1333-86-4							
XYLENE 1330-20-7								
US. California Proposition 65	US. California Proposition 65							
<b>WARNING:</b> This product contains a chemical know	n to the State of California to cause cancer.							
US - California Proposition 65 - CRT: Listed date								
CD								





















ETHYLBENZENE (CAS 100-41-4)	Listed: June 11, 2004
CARBON BLACK (CAS 1333-86-4	Listed: February 21, 2003

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances	No
	(AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China	No
	(IECSC)	
Europe	European Inventory of Existing Commercial	No
	Chemical Substances (EINECS)	
Europe	European List of Notified Chemical Substances	No
	(ELINCS)	
Japan	Inventory of Existing and New Chemical	No
	Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical	No
	Substances (PICCS)	
United States &	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico		

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## **Section 16 - Other Information**

Last Revision Date:	09.01.15			
Preparation Date:	09.01.15			
HMIS® ratings	Health: 2*			
	Flammability: 3			
	Physical hazard: 0			
	Personal protection: B			
NFPA ratings	Health: 2			
	Flammability: 3			
	Instability: 0			
Disclaimer/Statement of Liability:	The information contained herein is believed to be accurate but is			
	not warranted to be so. Data and calculations are based on			
	information furnished by the manufacturer of the product and			
	manufacturers of the components of the product. Users are			
	advised to confirm in advance of need that information is current,			





















applicable and suited to the circumstance of use. 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. Furthermore, vendor
assumes no responsibility for injury caused by abnormal use of
this material even if reasonable safety procedures are followed.
Any questions regarding this product should be directed to the
manufacturer of the product as described in Section 1.

Key to abbre	Key to abbreviations						
ACGIH	American Conference of Governmental Industrial Hygiene	TWA	Time-Weighted Averages are based on 8h/day, 40h/week exposures				
NIOSH	National Institute of Occupational Safety and Health	STEL	Short Term Exposure Limits are based on 15-minute exposures				
OSHA	Occupational Safety and Health Administration	STEV	Short Term Exposure Value				
MSHA	Mine Safety and Health Administration	TWAEV	Time Weighted Average Exposure Values				
MARPOL	International Convention for the Prevention of	IBC Code	International Bulk Chemical Code				
73/78	Pollution from Ships,						
	1973, as modified by the Protocol of 1978						
	relating thereto, as amended.						
IMDG	International Maritime Dangerous Goods	CEPA	Canadian Environmental Protection Act				
WHMIS	Workplace Hazardous Materials Information System	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act				
SARA	Superfund Amendments and Reauthorization Act	TPQs	Threshold Planning Quantities				
EPCRA RQ	Emergency Planning & Community Right-to- Know Act Reportable Quantities	PBT	Persistent Bioaccumulative Toxic				
N/A	Not Applicable	NDA	Not Data Available				



















#### **CANTEX**

#### **GHS SAFETY DATA SHEET**

CANTEX #50 AQA/BLU Low VOC Primer for PVC and CPVC Plastic Pipe

Date Revised: SEP 2018 Supersedes: FEB 2018

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

CANTEX #50 AQA/BLU Low VOC Primer for PVC and CPVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

#### **SECTION 2 - HAZARDS IDENTIFICATION** GHS CLASSIFICATION

Health			Environmental	Physical		
	Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	

Chronic Toxicity:

Skin Irritation: Category 3 Skin Sensitization: NO Category 2 Eye:

None Known

Category 2

GHS LABEL:



Signal Word: Danger

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2 CLASS D. DIVISION 2B

Hazard

H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

EUH019: May form explosive peroxides

Precautionary Statements P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

#### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

	CAS#	EINECS #	REACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	45 - 60
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	4 - 15
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	14 - 25

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

\* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

#### SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Ingestion:

Likely Routes of Exposure: Inhalation. Eve and Skin Contact

Acute symptoms and effects: Inhalation:

Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Skin Contact: Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: Category 2 Carcinogen

#### **SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. HMIS NFPA 0-Minimal Unsuitable Extinguishing Media: Health 1-Slight Water spray or stream. 2 2 Exposure Hazards: Inhalation and dermal contact Flammability 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke 3-Serious Reactivity 0 0 PPE В 4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Keep away from heat, sparks and open flame

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

**Environmental Precautions:** Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel Aluminum or plastic containers Materials not to be used for clean up:

## SECTION 7 - HANDLING AND STORAGE

Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature.

# SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	OSHA PEL-Ceiling	CAL/OSHA PEL	CAL/OSHA Ceiling	CAL/OSHA STEL	
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	ĺ
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	l
	Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm	l

Use local exhaust as needed. Engineering Controls:

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Eye Protection

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local

exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

**GHS SAFETY DATA SHEET CANTEX** 

CANTEX #50 AQA/BLU Low VOC Primer for PVC and CPVC Plastic Pipe

Date Revised: SEP 2018 Supersedes: FEB 2018

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aqua Blue, medium syrupy liquid

Odor: Ketone Odor Threshold: 1 ppm (Acetone) pH: Not Applicable

-108.5°C (-163.3°F) Based on first melting component: THF 56°C (133°F) to 80°C (176°F) Melting/Freezing Point: Boiling Range: 56°C (133°F) Based on first boiling component: Acetone > 1.0 (BUAC = 1) **Evaporation Rate:** 

Boiling Point: Flash Point: -20°C (-4°F) TCC based on Acetone Flammability: Category 2

Specific Gravity: 0.924 @23°C (73°F) Flammability Limits: LEL: 1.4% based on MEK UEL: 12.8% based on Acetone Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/water: Not Available 190 mm Hg @ 20°C (68°F) Acetone Vapor Pressure: 321°C (610°F) based on THF Auto-ignition Temperature: Vapor Density: >2.0 (Air = 1)

**Decomposition Temperature:** Not Applicable Other Data: Viscosity: Medium bodied

When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤ 510g/l. VOC Content:

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> **Target Organs** STOT SE3 Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m<sup>3</sup> (rat) Tetrahydrofuran (THF) Inhalation 8 hrs. 23,500 mg/m³ (rat) STOT SE3 Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 50,100 mg/m<sup>3</sup> (rat) STOT SE3 Oral: 5800 mg/kg (rat) Acetone

Reproductive Effects Teratogenicity Mutagenicity Embryotoxicity Sensitization to Product Synergistic Products Not Established Not Established Not Established Not Established Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 510g/l.

Degradability: Not available Bioaccumulation:

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

**SECTION 14 - TRANSPORT INFORMATION** 

**Proper Shipping Name: EXCEPTION for Ground Shipping** Hazard Class: 3

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Secondary Risk: None

Identification Number: UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

TDG CLASS:

Packing Group: PG II

Label Required: Class 3 Flammable Liquid

Marine Pollutant: NO

SHIPPING NAME: ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION** 

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Symbols: F, Xi Risk Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S2: Keep out of the reach of children S25: Avoid contact with eves.

S9: Keep container in a well-ventilated place. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

TDG INFORMATION

FLAMMABLE LIQUID 3

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges.

**SECTION 16 - OTHER INFORMATION** 

Specification Information: All ingredients are compliant with the requirements of the European

Department issuing data sheet: Safety Health & Environmental Affairs Directive on RoHS (Restriction of Hazardous Substances)

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 9/25/2018 / Updated GHS Standard Format Intended Use of Product: Primer for PVC and CPVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof

#### **CANTEX**

#### **GHS SAFETY DATA SHEET**

Date Revised: SEP 2018 CANTEX #10 PUR Low VOC Primer for PVC and CPVC Plastic Pipe Supersedes: FEB 2018

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

CANTEX #10 PUR Low VOC Primer for PVC and CPVC Plastic Pipe PRODUCT NAME:

PRODUCT USE: Low VOC Primer for PVC and CPVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel, 800,255-3924, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800,255-3924, +1 813-248-0585 (International)

#### **SECTION 2 - HAZARDS IDENTIFICATION**

GHS CLASSIFICATION:	
---------------------	--

Health		Env	vironmental	Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Evo:	Cotogony 2				

GHS LABEL:



Signal Word: Danger

WHMIS CLASSIFICATION: CLASS B, DIVISION 2 CLASS D, DIVISION 2B

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H319: Causes serious eye irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H332: Harmful if inhaled	P280: Wear protective gloves/protective clothing/eye protection/face protection
H335: May cause respiratory irritation	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H336: May cause drowsiness or dizziness	P403+P233: Store in a well ventilated place. Keep container tightly closed
H351: Suspected of causing cancer	P501: Dispose of contents/container in accordance with local regulation
EUH019: May form explosive peroxides	

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	KEACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	15 - 25
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	15 - 25
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	10 - 30
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	25 - 40

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity

#### SECTION 4 - FIRST AID MEASURES

Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately. Contact with eyes:

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Skin contact: Inhalation: Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

Skin Contact:  $\label{linear_$ 

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness Chronic (long-term) effects: Category 2 Carcinogen

#### SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.		HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Water spray or stream.	Health	2	2	1-Slight
Exposure Hazards:	Inhalation and dermal contact	Flammability	3	3	2-Moderate
Combustion Products:	Oxides of carbon and smoke	Reactivity	0	0	3-Serious
		PPE	В		4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Keep away from heat, sparks and open flame

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

**Environmental Precautions:** Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel Aluminum or plastic containers

Materials not to be used for clean up:

## SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling. Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Storage:

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature

## SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	OSHA PEL-Ceiling	CAL/OSHA PEL	CAL/OSHA Ceiling	CAL/OSHA STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
	Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

Use local exhaust as needed. **Engineering Controls:** 

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection:

Eve Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,

etc. as may be appropriate for the exposure.

Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Skin Protection: Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local

exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

**CANTEX** 

#### **GHS SAFETY DATA SHEET**

Date Revised: SEP 2018 CANTEX #10 PUR Low VOC Primer for PVC and CPVC Plastic Pipe Supersedes: FEB 2018

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** 

Appearance: Clear or purple, thin liquid Ethereal

Not Applicable

pH: Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF

Boiling Point: Flash Point: 56°C (133°F) Based on first boiling component: Acetone -20°C (-4°F) TCC based on Acetone

Specific Gravity: 0.842 @23°C (73°F) Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/water: Not Available

Auto-ignition Temperature: 321°C (610°F) based on THF

Decomposition Temperature Not Applicable

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 550 g/l

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources Incompatible Materials:

Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION I D50

Toxicity: Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Methyl Ethyl Ketone (MEK) Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Cyclohexanone

Oral: 5800 mg/kg (rat) Acetone Reproductive Effects **Teratogenicity** 

Mutagenicity Not Established Not Established Embryotoxicity Not Established

I C50

Sensitization to Product Not Established

**EXCEPTION** for Ground Shipping

Odor Threshold:

**Boiling Range:** Evaporation Rate:

Flammability:

Flammability Limits:

Other Data: Viscosity:

Vapor Pressure:

Vapor Density:

Inhalation 3 hrs. 21,000 mg/m3 (rat)

Inhalation 8 hrs. 23,500 mg/m3 (rat)

Inhalation 4 hrs. 8,000 PPM (rat)

Inhalation 50,100 mg/m<sup>3</sup> (rat)

Synergistic Products Not Established

0.88 ppm (Cyclohexanone)

> 1.0 (BUAC = 1)

Category 2

>2.0 (Air = 1)

Water-thin

56°C (133°F) to 156°C (313°F)

UEL: 12.8% based on Acetone

**Target Organs** 

STOT SE3

STOT SE3

STOT SE3

LEL: 1.1% based on Cyclohexanone

190 mm Hg @ 20°C (68°F) Acetone

**SECTION 12 - ECOLOGICAL INFORMATION** 

**Ecotoxicity:** None Known

Not Established

Marine Pollutant:

Safety Phrases:

In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 550 g/l. Mobility:

Degradability: Not available Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

**SECTION 14 - TRANSPORT INFORMATION** 

Proper Shipping Name: Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran)

Hazard Class: Secondary Risk: None

**Identification Number:** UN 1993

Packing Group: Label Required:

DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Class 3 Flammable Liquid

NO

TDG INFORMATION TDG CLASS: FLAMMABLE LIQUID 3

SHIPPING NAME: Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran) UN NUMBER/PACKING GROUP UN 1993, PG II

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 Symbols:

F, Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS) R11: Highly flammable

Risk Phrases R20: Harmful by inhalation

R66: Repeated exposure may cause skin dryness or cracking R36/37: Irritating to eyes and respiratory system R67: Vapors may cause drowsiness and dizzines

S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges

SECTION 16 - OTHER INFORMATION

Specification Information: Department issuing data sheet:

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances). Safety Health & Environmental Affairs

S46: If swallowed, seek medical advise immediately and show this container or label

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 9/25/2018 / Updated GHS Standard Format Intended Use of Product: Primer for PVC and CPVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

> Filename: CANTEX #10 PLIR Voc 9-18.xls Page 2 of 2

Revision date: Dec.25, 2014 Effective date: Jan.1, 2015

Reference number CA-CE-E01-16

# Safety data sheet for chemical products (SDS)

### 1.PRODUCT AND COMPANY IDENTIFICATION

Product name : Nickel Cadmium Battery

• Company name : Automotive & Industrial Systems Company of Panasonic Group

SANYO Electric Co., Ltd. Portable Rechargeable Battery Business Division

• Address : 222-1, kaminaizen, Sumoto City, Hyogo, Japan

Telephone number: +81-799-24-4111
 Telefax number: +81-799-23-2995

• Emergency telephone number : [Weekday] +81-799-23-2881

[Night and holiday] +81-799-24-4131

#### 2.HAZARDS IDENTIFICATION

For the battery cell, chemical materials are stored in a hermetically sealed metal case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by misuse, the gas release vent will be operated. The battery cell case will be breached at the extreme. Hazardous materials may be released.

Moreover, if heated strongly by the surrounding fire, acrid or harmful fume may be emitted.

## · Most important hazard and effects

Human health effects:

Inhalation: The electrolyte inhalation affects the respiratory tract membrane and the lugs. Cadmium fume may cause a cough, chest pain and dyspnea. Bronchitis and pneumonia will be occurred. Probably, it is carcinogen.

Skin contact: The electrolyte skin contact affects the skin seriously and may cause dermatitis.

Eye contact: The electrolyte leaked from the battery cell is strong alkali. When it goes into an eye, the cornea may be affected and it may lead to blindness.

Ingestion: The electrolyte ingestion irritates the mouth and the throat seriously results in vomiting, nausea, hematemesis, stomach pains and diarrhea.

### Environmental effects:

Since a battery cell remains in the environment, do not throw out it into the environment.

## Specific hazards :

As previously described.

## 3.COMPOSITION / INFORMATION ON INGREDIENTS

Substance or preparation : Preparation

Information about the chemical nature of product :

Common chemical name /	CAS	Concentration /	Classification and
General name	number	Concentration range	hazard labelling
Nickel, Nickel Compounds	7440-02-0	15-40%	Specific hazard
Cadmium, Cadmium Compounds	7440-43-9	10-40%	Specific hazard
Cobalt Compounds	7440-48-4	0-3%	Specific hazard
Carbon Black	1333-86-4	0-1%	Specific hazard
Iron	7439-89-6	20-65%	-
Potassium Hydroxide	1310-58-3		acute toxicity
Sodium Hydroxide	1310-73-2	0-5%	corrosivity
Lithium Hydroxide	1310-65-2		irritant property

Cadmium corresponds to the Substance of Very High Concern (SVHC) of REACH regulation.

Revision date: Dec.25, 2014 Effective date: Jan.1, 2015

### 4.FIRST-AID MEASURES

Internal cell materials of an opened battery cell

Inhalation :

Cover the victim in a blanket, move to the place of fresh air and keep quiet. Seek medical attention immediately. When dyspnea (breathing difficulty) or asphyxia (breath-hold), give artificial respiration immediately.

· Skin contact:

Remove contaminated clothes and shoes immediately. Wash the adherence or contact region with soap and plenty of water.

· Eye contact :

Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

A battery cell and internal cell materials of an opened battery cell

· Ingestion:

Do not induce vomiting. Seek medical attention immediately.

### 5.FIRE-FIGHTING MEASURE

Although a battery cell is not flammability, in case of fire, move it to the safe place quickly.

The following measures are taken when it cannot be moved.

- Suitable extinguishing media: Dry sand, chemical powder fire extinguishing medium.
- Specific hazards: Acrid or harmful fume is emitted during fire.
- Special protective equipment for firefighters : Protective equipment written in Section 8.

## **6.ACCIDENTAL RELEASE MEASURES**

Internal cell materials, such as electrolyte leaked from battery cell, are carefully dealt with according to the followings.

Personal precautions :

Forbid unauthorized person to enter. Remove leaked materials with protective equipment written in Section 8.

- Environmental precautions: Do not throw out into the environment.
- Method of recovery and neutralization :

Dilute the leaked electrolyte with water and neutralize with diluted sulfuric acid. The leaked solid is moved to a container. The leaked place is fully flushed with water.

### 7.HANDLING AND STORAGE

Handling

Technical measures

Prevention of user exposure: Not necessary under normal use.

Prevention of fire and explosion: Not necessary under normal use.

Precaution for safe handling: Do not damage or remove the external tube.

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material. In the case of charging, use only dedicated charger or charge according to the conditions specified by Sanyo.

Storage

Technical measures

Storage conditions (suitable to be avoided): Avoid direct sunlight, high temperature, high humidity. Store in cool place (temperature : -30 ~ 35 degree C, humidity : 45 ~ 85%).

Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids Packing material (recommended, not suitable): Insulative and tear-proof materials are recommended.

Revision date: Dec.25, 2014 Effective date: Jan.1, 2015

### 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :

No engineering measure is necessary during normal use. In case of internal cell materials' leakage, the information below will be useful.

Control parameters

Common chemical name / General name	ACGIH(2014)			
	TLV-TWA	BEI		
Nickel,Nickel Compounds	(As Ni) Metal: 1.5mg/m³ Soluble compounds: 0.1mg/m³ Insoluble compounds: 0.2mg/m³	-		
Cadmium,Cadmium Compounds	(As Cd) Simple substance: 0.01mg/m³ Compounds: 0.002mg/m³	In urine : 5 micro g/g In blood : 5 micro g/l		
Cobalt Compounds	(As Co) 0.02mg/m <sup>3</sup>	In urine : 15 micro g/l In blood : 1 micro g/l		
Carbon Black	3mg/m <sup>3</sup>	-		
Potassium Hydroxide	-	-		
Sodium Hydroxide	-	-		
Lithium Hydroxide	$0.025 \mathrm{mg/m^3}$	-		

ACGIH: American Conference of Governmental Industrial Hygienists, Inc. TLV-TWA: Threshold Limit Value-time weighted average concentration

BEI: Biological Exposure Indices

Personal protective equipment

Respiratory protection: Protective mask Hand protection: Protective gloves

Eye protection: Protective glasses designed to protect against liquid splashes Skin and body protection: Working clothes with long sleeve and long trousers

• A battery cell is not applied to Toxic Substances Control Act (TSCA), because it is not a chemical substance but an article.

## 9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: Solid Form: Cylindrical

Color: Metallic color (without tube)

Odor: No odor

• pH : NA

• Specific temperatures/temperature ranges at which changes in physical state occur :

There is no useful information for the product as a mixture.

· Flash point : NA

Explosion properties : NA
 Density : about 2. 4~4. 0g/cm³

Solubility ,with indication of the solvent(s): Insoluble in water

### 10.STABILITY AND REACTIVITY

- Stability: Stable under normal use
- Hazardous reactions occurring under specific conditions

By misuse of a battery cell or the like, oxygen or hydrogen accumulates in the cell and the internal pressure rises. These gases may be emitted through the gas release vent. When fire is near, these gases may take fire.

When a battery cell is heated strongly by the surrounding fire, acrid or harmful fume may be emitted.

- · Conditions to avoid : Direct sunlight, high temperature and high humidity
- · Materials to avoid: Conductive materials, water, seawater, strong oxidizers and strong acids
- · Hazardous decomposition products: Acrid or harmful fume is emitted during fire.

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### 11.TOXICOLOGICAL INFORMATION

There is no data available on the product itself. (in case of electrolyte leakage from the battery)

### Cadmium, Cadmium Compounds

Acute toxicity:

oral GHS: Category 4 (Swallowing is harmful.)

skin Unknown.

inhalation (dust) GHS: Category 1 (it is dangerous in the life when inhaling.)

Skin corrosivity: Unknown.

Serious damage and irritant property for eyes: Unknown.

Respiratory or skin sensitization: Unknown.

· Germline mutagenicity:

GHS: Category 2

The hereditary disorder might be caused.

Carcinogenicity:

GHS: Category 1A

ACGIH: A2 – Suspected human carcinogen NIOSH: potential occupational carcinogen NTP: Known to be a human carcinogen IARC: Group 1 carcinogenic to human

· Reproduction Toxicity:

GHS: Category 2

Harmful effects on reproductive capacity or fetus might be exerted.

Certain target organ/ Systemic toxicity (single exposure):

GHS: Category 1

Damage of lungs and the respiratory organ is caused.

Overexposure causes the pulmonary disorder.

Certain target organ/ Systemic toxicity (repeated exposure):

GHS: Category 1

The disorder of the kidney, lungs, blood, bone, and respiratory organ is caused by long-term or repeated exposure.

### **Potassium Hydroxide**

· Acute toxicity:

oral GHS: Category 3. Harmful if swallowed. skin GHS: It is not possible to classify. inhalation (steam) inhalation (dust) GHS: It is not possible to classify. GHS: It is not possible to classify.

Skin corrosivity: GHS: Category 1B.

Serious chemical wound of the skin and damage of eyes is caused.

Serious damage and irritant property for eyes: GHS: Category 1.

· Respiratory or skin sensitization:

Respiratory sensitization: GHS: It is not possible to classify.

Skin sensitization: GHS: out of Category.

Germline mutagenicity: GHS: out of Category.

Carcinogenicity: GHS: It is not possible to classify.
 Reproduction Toxicity: GHS: It is not possible to classify.

Certain target organ/ Systemic toxicity (single exposure):

GHS: Category 1.

The disorder of the respiratory system is caused.

Certain target organ/ Systemic toxicity (repeated exposure)

GHS: It is not possible to classify.

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### 12.ECOLOGICAL INFORMATION

Persistence/degradability :

Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

· Bioaccumulation :

Cadmium bioaccumulation occurs in plants and marine food in human food chain.

#### 13.DISPOSAL CONSIDERATIONS

• Recommended methods for safe and environmentally preferred disposal :

Product (waste from residues)

Do not throw out a used battery cell. Recycle it through the recycling company.

Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates them, dispose them as industrial wastes subject to special control.

#### 14.TRANSPORT INFORMATION

This battery doesn't correspond to dangerous article of the United Nations transportation regulations. Moreover, this article doesn't correspond to dangerous article to which transportation is restricted by the following decree and guideline.

- TECHNICAL INSTRUCTINS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR(ICAO)
- IATA Dangerous Goods Regulations(IATA)
- INTERNATIONAL MARITIME DANGEROUS GOODS CODE(IMO)
- code of federal regulations(U.S.DOT)

However, it is necessary to obey the IATA Dangerous Goods Regulations(A123).

In the case of transportation, confirm no leakage and no spillage from a container. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Take the protection measures not short-circuited.

Moreover, do not damage or remove the external tube. Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Never disassemble, modify or deform. Avoid direct sunlight, high temperature, high humidity.

#### 15.REGULATORY INFORMATION

Regulations specifically applicable to the product :

Wastes Management and Public Cleaning Law (Japan)

Law for Promotion Effective Utilization of Resources (Japan)

Mercury-containing and Rechargeable Battery Management Act (USA)

Commission Directive 2006/66/EC (EU)

Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (EU)

## **16.OTHER INFORMATION**

- The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.
- This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Revision date: Dec.25, 2014 Effective date: Jan.1, 2015

#### · Reference

Chemical substances information: Japan Advanced Information center of Safety and Health International Chemical Safety Cards (ICSCs):

International Occupational Safety and Health Information Center (CIS)

2014 TLVs and BEIs : American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH CARCINOGEN LIST: National Institute for Occupational Safety and Health (NIOSH)

The Ninth Report on Carcinogen: National Toxicology Program (NTP)

IARC Monographs Program on the Evaluation of Carcinogenic Risks to Humans:

International Agency for Research on Cancer (IARC)

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

National Institute of Technology and Evaluation (NITE)

Dangerous Goods Regulations – 56th Edition Effective 1 January 2015: International Air Transport

Association (IATA)

First edition Dec. 1, 2003
Latest edition Dec. 25, 2014
Effective date Jan.1, 2015
Prepared and approved by

Automotive & Industrial Systems Company of Panasonic Group

SANYO Electric Co., Ltd.

Portable Rechargeable Battery Business Division

Cadnica Business Unit Engineering Group

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

Version 2.0 Print Date 03/12/2018

Revision Date 06/13/2016 SDS Number 350000004807

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-

167)

Recommended use : Insect Repellent

Manufacturer, importer, : S.C. Johnson & Son, Inc.

**supplier** 1525 Howe Street

Racine WI 53403-2236

**Telephone** : +18005585252

**Emergency telephone**: 24 Hour Medical Emergency Phone: (866)231-5406

**number** 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
Aerosol	Category 1	Extremely flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

## Labelling

## **Hazard symbols**

Flame

Gas cylinder

## Signal word

Danger

## **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

## **Precautionary statements**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

Version 2.0 Print Date 03/12/2018

Revision Date 06/13/2016 SDS Number 350000004807

Protect from sunlight. Store in a well-ventilated place.

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

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

Do not pierce or burn, even after use.

Other hazards : None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Ethyl alcohol	64-17-5	30.00 - 60.00
N,N-Diethyl-m-toluamide	134-62-3	10.00 - 30.00
Butane	106-97-8	1.00 - 5.00
Propane	74-98-6	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00

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.

## 4. FIRST AID MEASURES

**Eye contact** : No special requirements

**Skin contact** : If you suspect a reaction to this product, discontinue use and

remove contaminated clothing.

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

### **5. FIREFIGHTING MEASURES**

Suitable extinguishing

: Use water spray, alcohol-resistant foam, dry chemical or

media carbon dioxide.

Specific hazards during : Aerosol Product - Containers may rocket or explode in heat of

2/14

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

Version 2.0 Print Date 03/12/2018

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firefighting fire. Do not allow run-off from fire fighting to enter drains or

water courses.

Further information : Fight fire from maximum distance or protected area. Cool and

use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or

explosion do not breathe fumes.

NFPA Classification : NFPA Level 2 Aerosol

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Remove all sources of ignition.

Wear personal protective equipment. Wash thoroughly after handling.

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Use appropriate containment to avoid environmental

contamination.

Outside of normal use, avoid release to the environment.

Methods and materials for containment and

cleaning up

: If damage occurs to aerosol can:

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Use only non-sparking equipment.

Dike large spills.

Clean residue from spill site.

#### 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

: Avoid contact with eyes and lips.

For personal protection see section 8.

Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Pressurized container.

Do not pierce or burn, even after use.

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

Version 2.0 Print Date 03/12/2018

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**Advice on protection** : Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source.

Storage

Requirements for storage :

areas and containers

Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/122 °F.

Keep away from food, drink and animal feedingstuffs.

Keep in a dry, cool and well-ventilated place.

Other data : Stable under recommended storage conditions.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non- standard units	Basis
Ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm	-	OSHA TWA
Ethyl alcohol	64-17-5	-	1,000 ppm	-	ACGIH STEL
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Propane	74-98-6	-	-	-	ACGIH TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL

Personal protective equipment

**Respiratory protection** : Do not spray in enclosed areas.

**Hand protection** : No special requirements.

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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**Eye protection** No special requirements.

Skin and body protection No special requirements.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

**Form** Compressed gas

Color clear

Odor Alcohol Odor

**Odour Threshold** : No data available

рΗ : No data available

Melting point/freezing point : No data available

Initial boiling point and

boiling range

: No data available

: -7 °C Flash point

19.4 °F

**Evaporation rate** : No data available

Flammability (solid, gas) : No data available

**Upper/lower flammability or** : No data available

explosive limits

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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Vapour pressure : No data available

Vapour density : No data available

Relative density : 0.84 g/ml at 21 °C

Solubility(ies) : slightly soluble

Partition coefficient: n-

octanol/water

: No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Volatile Organic: 64.2 % - additional exemptions may applyCompounds\*as defined by US Federal and State Consumer Product

Total VOC (wt. %)\* Regulations

Other information : None identified :

## 10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

## 11. TOXICOLOGICAL INFORMATION

**Emergency Overview** : Danger

Acute oral toxicity
Acute inhalation toxicity

Acute dermal toxicity :

<b>GHS Properties</b>	Classification	Routes of entry
Acute toxicity	No classification proposed	-
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 exposure	No classification proposed	-
Specific target organ toxicity - repeated	No classification proposed	-

according to Hazard Communication Standard; 29 CFR 1910.1200



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exposure		
Aspiration hazard	No classification proposed	-

**Aggravated Medical** 

Condition

## 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
Ethyl alcohol	LC50	Fish	11,200 mg/l	96 h
N,N-Diethyl-m-toluamide	static test LC50	Oncorhynchus mykiss (rainbow trout)	71.25 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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## Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Ethyl alcohol	static test LC50	Ceriodaphnia dubia	5,012 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d
N,N-Diethyl-m-toluamide	LC50	Daphnia magna (Water flea)	75 mg/l	51 h
	semi- static test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduct ion Test)	Daphnia magna	3.7 mg/l	21 d
Butane	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h

according to Hazard Communication Standard; 29 CFR 1910.1200



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## Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
N,N-Diethyl-m-toluamide	NOEC	Pseudokirchneriella subcapitata (green algae)	0.521 mg/l	96 h
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Propane	No data available			
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Ethyl alcohol	97 %	28 d	Readily biodegradable
N,N-Diethyl-m-toluamide	83.8 %	28 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable

## **Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Ethyl alcohol	3.2 estimated	-0.35 Measured
N,N-Diethyl-m-toluamide	21.9 estimated	2.4
Butane	No data available	2.89
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8

according to Hazard Communication Standard; 29 CFR 1910.1200



## Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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## **Mobility**

Component	End point	Value	
Ethyl alcohol	No data available		
N,N-Diethyl-m-toluamide	Koc	43.3	
Dutana	No data available		
Butane Propane	No data available  No data available		
Isobutane	No data available		

#### PBT and vPvB assessment

Component	Results
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
N,N-Diethyl-m-toluamide	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

#### 13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label.

Consumer may discard empty container in household waste,

or recycle where facilities exist.

PESTICIDAL WASTE:

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding

disposal.

according to Hazard Communication Standard; 29 CFR 1910.1200



## Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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#### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper	AEROSOLS,	AEROSOLS,	AEROSOLS,
shipping name	Flammable	Flammable	Flammable
Transport hazard	2.1	2	2.1
class(es)			
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check	product, please	product, please check
	transport documents.	check transport	transport documents.
		documents.	

#### 15. REGULATORY INFORMATION

#### FIFRA Labeling

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:

CAUTION:

Causes moderate eye irritation.

Harmful if swallowed.

Use of this product may cause skin reactions in rare cases.

Flammable.

Contents under pressure.

Exposure to temperatures above 120° F may cause bursting.

Notification status : All ingredients of this product are listed or are excluded from

according to Hazard Communication Standard; 29 CFR 1910.1200



# Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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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.

Registration # / Agency

4822-167/US/EPA

#### **16. OTHER INFORMATION**

<b>HMIS</b>	Rating	s
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Health	2	
Flammability	4	
Reactivity	0	

**NFPA Ratings** 

Health	2	
Fire	4	
Reactivity	0	
Special	-	

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**

according to Hazard Communication Standard; 29 CFR 1910.1200



## Off Deep Woods Insect Repellent V (EPA Reg. No. 4822-167)

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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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# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

**Revision Date:** 

## 1. Identification

Product Name: PRO LSPR 12PK MARK FLUOR RED-OR

CONT PK

Product Identifier: P2558852 Supercedes Date: 6/26/2017

Recommended Use: Marking Paint/Aerosols

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

4/4/2019

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

## 2. Hazard Identification

#### Classification

#### Symbol(s) of Product







Signal Word Danger

## Possible Hazards

29% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Compressed Gas H280 Contains gas under pressure; may explode if heated.

Carcinogenicity, category 2 H351 Suspected of causing cancer.

STOT, repeated exposure, category 2 H373 May cause damage to organs through prolonged or repeated exposure.

# GHS LABEL PRECAUTIONARY STATEMENTS

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P201 Obtain special instructions before use.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

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P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P314 Get medical advice/attention if you feel unwell.

## 3. Composition / Information On Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u> <u>Range</u>	GHS Symbols	GHS Statements
Propane	74-98-6	10-25	GHS04	H280
n-Butane	106-97-8	2.5-10	GHS04	H280
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Barium Sulfate	7727-43-7	2.5-10	GHS07	H332
n-Butyl Acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.1-1.0	GHS08	H304-372
Octane	111-65-9	0.1-1.0	GHS02-GHS07- GHS08	H225-304-315-336
Crystalline Silica / Quartz	14808-60-7	0.1-1.0	Not Available	Not Available
Pigment Orange 13	3520-72-7	0.1-1.0	Not Available	Not Available

## 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat due to buildup of steam. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Evacuate area and fight fire from a safe distance. Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

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#### 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Contents under pressure. Do not expose to heat or store above 120 ° F. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

Advice on Safe Handling of Combustible Dust: No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Barium Sulfate	7727-43-7	5.0	5 mg/m3	N.E.	15 mg/m3	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
Crystalline Silica / Quartz	14808-60-7	1.0	0.025 mg/m3	N.E.	50 μg/m3	N.E.
Pigment Orange 13	3520-72-7	1.0	N.E.	N.E.	N.E.	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

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## 9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	0.845	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Miscible	Partition Coefficient, n-	N.D.
Decompostion Temp., °C:	N.D.	octanol/water:	N.D.
Boiling Range, °C:	-37 - 537	Explosive Limits, vol%:	0.9 - 12.6
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	<u>Dermal LD50</u>	<u>Vapor LC50</u>
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
7727-43-7	Barium Sulfate	307000 mg/kg Rat	N.E.	N.E.
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
111-65-9	Octane	N.E.	N.E.	>23.36 mg/L Rat
14808-60-7	Crystalline Silica / Quartz	5500 mg/kg Rat	5500	100 mg/L
3520-72-7	Pigment Orange 13	>5000 mg/kg Rat	N.E.	N.E.

N.E. - Not Established

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## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems. Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

## U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- isomers)1330-20-7Ethylbenzene100-41-4

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

Chemical NameCAS-No.Castor oil, sulfated, sodium salt68187-76-8

#### U.S. State Regulations:

#### California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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#### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability 0

Volatile Organic Compounds 557 g/L SDS REVISION DATE: 4/4/2019

**REASON FOR REVISION:** Revision Description Changed

**Product Composition Changed** 

Substance and/or Product Properties Changed in Section(s):

14 - Transport Information15 - Regulatory Information16 - Other Information

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



## SAFETY DATA SHEET

#### 1. Identification

**Product identifier CONTAX - OXIDE INHIBITING COMPOUND** 

Other means of identification

SDS number SDS - 00028

**Product code** CTB, CTB8, CTA, CTA-1, CTG, CTQ

Recommended use Corrosion Inhibitor. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

ABB Installation Products Inc. Company name

**Address** 860 Ridge Lake Blvd.

Memphis, TN 38120

US

Telephone 901-252-5000 ext.8324

Not available. E-mail

CHEMTREC - 24 HOURS: +1 703-741-5970 **Emergency phone number** 

#### 2. Hazard(s) identification

Not classified. Physical hazards **Health hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. Hazard symbol Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. **Storage** 

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Castor oil reaction products with TDI	70024-98-5	80-90
Dimethyl silicone polymer with silica	67762-90-7	10-15
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	1-5
Carbon black	1333-86-4	0.1-1

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

**CONTAX - OXIDE INHIBITING COMPOUND** SDS US 931488 Version: D 1/7 Revision date: 05-November-2018

#### 4. First-aid measures

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

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special Treat symptomatically.

treatment needed **General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

General fire hazards Material will burn in a fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. For

personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Scrape up spillage or absorb with absorbing material. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

Conditions for safe storage,

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

including any incompatibilities SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Components	Туре	Value
Carbon black (CAS	PEL	3.5 mg/m3
1333-86-4)		

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
	<u>.</u>		

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	value	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

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Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

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

Skin protection

Wear suitable protective clothing. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Solid. Physical state

**Form** Solid. Thick paste.

Black. Color

Not available. Odor **Odor threshold** Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 482.0 °F (> 250.0 °C) Flash point

**Evaporation rate** Not available.

Will burn if involved in a fire. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available.

Solubility(ies)

Relative density

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

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Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materials

Hazardous decomposition

products

None known. Carbon oxides.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the

Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species **Test Results** 

Carbon black (CAS 1333-86-4)

Acute **Dermal** 

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 8000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Carcinogenicity Inhalation of carbon black dust may cause cancer, however due to the physical form of the

product, inhalation of dust is not likely.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

Specific target organ toxicity - classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

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

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Components Species Test Results

Carbon black (CAS 1333-86-4)

Aquatic Acute

Fish LC50 Leuciscus idus >= 1000 mg/l, 96 Hours

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

Bioaccumulative potential No data available.

**Mobility in soil** Expected to have low mobility in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

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SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Carbon black (CAS 1333-86-4)

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

Carbon black (CAS 1333-86-4)

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

Carbon black (CAS 1333-86-4)

#### **US. Rhode Island RTK**

Carbon black (CAS 1333-86-4)

#### **California Proposition 65**



WARNING: This product can expose you to Carbon black, which is known to the State of California to cause

cancer. For more information go to www.P65Warnings.ca.gov.

Australian Inventory of Chemical Substances (AICS)

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Carbon black (CAS 1333-86-4) Listed: February 21, 2003

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

On inventory (yes/no)\*

No

Carbon black (CAS 1333-86-4)

#### **International Inventories**

Australia

Country(s) or region

	• ,	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

#### 16. Other information, including date of preparation or last revision

Issue date15-December-2015Revision date05-November-2018

**Version** D

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

**NFPA** ratings



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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### Disclaimer

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SDS No.: 1777



## Paint Thinner

### SECTION 1. IDENTIFICATION

Product Identifier

Paint Thinner

Other Means of Identification

13-221, 13-224, 13-228, 13-321, 13-324, 13-324HD., 13-324TAR, 13-325, 13-328, 13-341, 13-344, 13-371, 13-374, 13-374HD, 13-375, 14-534, 14-534IMDG, 14-535, 14-538, 14-538UN, 14-573, 23-229, 23-329, 23-329UN, 23-379, 23-379-M, 24-539, 24-539-1000, 33-319UFA, 33-321ACE, 33-321D, 33-321FSEXP, 33-321H, 33-321PAEXP, 33-321PLYEXP, 33-321PP, 33-321RONA, 33-324ACE, 33-324CL, 33-324D, 33-324FSEXP-PRO, 33-324H,

33-324PAEXP-PRO, 33-324PLYX-PRO, 33-324PP, 33-324RONA, 33-324TH,

33-325FSEXP-PRO, 33-325PAEXP-PRO, 33-325PP, 33-326PLYX-PRO, 33-328FSEXP-PRO, 33-328PAEXP-PRO, 33-328PLYX-PRO, 33-328UNI, 33-371H, 33-374H, 33-375H, 34-531C,

34-531FSEXP, 34-531H, 34-531PAEXP, 34-531WDS, 34-534C, 34-534FSEXP-PRO, 34-534H, 34-534PAEXP-PRO, 34-534PLYX-PRO, 34-534RONA, 34-534WDS, 34-535C, 34-535FSEXP-PRO, 34-535H, 34-535PAEXP-PRO, 34-535PLYX-PRO, 34-535RONA,

34-535STE, 34-535WDS, 34-538FSEXP-PRO, 34-538H, 34-538PAEXP, 34-538PAEXP-PRO, 34-538PLYX-PRO, 34-539UFA, 34-573C-CL, 34-573H, 34-574HH, 83-228, 83-229, 83-321, 83-324, 83-326, 83-328, 83-341, 83-344, 84-534, 84-535, 84-538, 84-539, 14-802, 14-804,

34-802SI, 84-802, 84-802ISR, 84-804ISR, 34-803WDS, 34-802WDS, 34-804WDS, 34-802SIEXP, 13-348LAU, 14-402, 14-535UFA, 14-802EXP, 34-802SIB40, 24-539LAU, 24-539U/N, 33-228FN, 33-324ZIPEXP, 34-573WDS-CL, 83-229-40, 83-329SHER, 83-329DU,

84-538-40, 84-539-40, 84-531, 53-325, 53-344, 53-371, 53-374HD, 53-375, 53-324HD,

53-341, 53-328, 53-321, 53-471

Other Identification Solvent, Varsol, Citronella, Charcoal Lighter Fluid, Kerosene, Lamp Oil, Mineral Spirits

Recommended Use Please refer to Product label.

Restrictions on Use None known.

Manufacturer/Supplier Recochem Inc., 850 Montee de Liesse, Montreal, QC, H4T 1P4, Compliance and Regulatory

Identifier

Department, 905-878-5544, www.recochem.com

Emergency Phone No. CANUTEC, 613-996-6666, 24 Hours

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#### **SECTION 2. HAZARD IDENTIFICATION**

#### Classification

Flammable liquid - Category 3; Skin irritation - Category 2; Eye irritation - Category 2A; Germ cell mutagenicity -Category 1B; Carcinogenicity - Category 1B; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2; Aspiration hazard - Category 1; Aquatic hazard (Chronic) -Category 2

Label Elements







Signal Word: Danger

Product Identifier: Paint Thinner - Ver. 1

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#### Hazard Statement(s):

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 + H320 Causes skin and eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H373 May cause damage to organs (nervous system) through prolonged or repeated exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary Statement(s):

#### Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, and lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe fume, mist, vapours, spray.

P264 Wash hands and skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

P331 Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P312 Call a POISON CENTRE or doctor if you feel unwell.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE or doctor if you feel unwell.

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

P312 Call a POISON CENTRE or doctor if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice or attention.

P370 + P378 In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder, water spray or fog to extinguish.

P391 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 regional, national and local laws and regulations.

#### Note:

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. % of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Stoddard solvent	8052-41-3	80-100		
n-Nonane	111-84-2	1-5	Constiuent Contained in Complex Mixture	
1,2,4-Trimethylbenzene	95-63-6	1-5	Constiuent Contained in Complex Mixture	
Naphthalene	91-20-3	0.1-1	Constiuent Contained in Complex Mixture	
Xylene (mixed isomers)	1330-20-7	0.1-1	Constiuent Contained in Complex Mixture	
Ethylbenzene	100-41-4	0.1-1	Constiuent Contained in Complex Mixture	

#### Notes

#### Use of Generic SDS:

If the concentration or actual concentration range of an ingredient of a particular hazardous product in the series is different from the concentration or actual concentration range disclosed for the rest of the series, either the concentration or the actual concentration range must be indicated beside that ingredient under item 3 (Composition/Information on ingredients) of the SDS. Furthermore, if any other specific information element(s) (such as flash point, numerical measure of toxicity, etc.) for a particular hazardous product in the series differs from that of the other products in the series (without affecting the classification), the information element relevant to that hazardous product must be disclosed on the SDS with an indication to which hazardous product each relates.

Source: Health Canada - Technical Guidance on the Requirements of the Hazardous Products Act and the Hazardous Products Regulations WHMIS 2015 Supplier Requirements - pg 117

## **SECTION 4. FIRST-AID MEASURES**

#### First-aid Measures

Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel unwell.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Call a Poison Centre or doctor if you feel unwell. If skin irritation occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

**Eve Contact** 

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while

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holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention. Ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. If breathing has stopped, trained personnel should immediately begin rescue breathing. Immediately call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Immediate Medical Attention and Special Treatment

**Target Organs** 

Eyes, skin, respiratory system.

**Special Instructions** 

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Medical Conditions Aggravated by Exposure

Dermatitis.

## **SECTION 5. FIRE-FIGHTING MEASURES**

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Can be ignited by static discharge. Can accumulate static charge by flow, splashing or agitation. Liquid can float on water and may travel to distant locations and/or spread fire. See Section 9 (Physical and Chemical Properties) for flash point and explosive limits. Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: irritating chemicals; toxic chemicals; very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Evacuate downwind locations. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

**Environmental Precautions** 

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and

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explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### SECTION 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Conditions for Safe Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGII	H TLV®	OSI	HA PEL	AIHA V	VEEL
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Stoddard solvent	100 ppm	Not established	100 ppm	Not established		
Naphthalene	10 ppm A3	Not established	10 ppm	15 ppm		
n-Nonane	200 ppm	Not established	200 ppm	Not established		
1,2,4-Trimethylbenzene	25 ppm	Not established	25 ppm	Not established		
Xylene (mixed isomers)	100 ppm	150 ppm	100 ppm	150 ppm		
Ethylbenzene	100 ppm	125 ppm	100 ppm	125 ppm		

#### Appropriate Engineering Controls

General ventilation is usually adequate. For large scale use of this product: use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Control static electricity discharges which includes bonding of equipment to ground. Use only non-combustible, compatible materials for walls, floors, ventilation system, air cleaning devices, pallets, shelving. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

**Eye/Face Protection** 

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

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Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Available in these colours: Clear, Yellow, Gold, Red, Blue, Green, Amber, Pink,

Orange, Purple, White, Brown, Grey, Teal.

Odour Hydrocarbon
Odour Threshold Not available
pH Not available

Melting Point/Freezing Point -76 °C (-105 °F) (melting); -76 °C (-105 °F) (freezing)

Initial Boiling Point/Range 159 - 195 °C (318 - 383 °F) Flash Point 43 °C (109 °F) (closed cup) Evaporation Rate 0.1 (n-butyl acetate = 1)

Flammability (solid, gas) Not applicable

Upper/Lower Flammability or

**Explosive Limit** 

5.6% (upper); 0.8% (lower)

Vapour Pressure 3.98 - 4.50 mm Hg (0.53 - 0.60 kPa) at 25 °C

Vapour Density (air = 1) 5

Relative Density (water = 1) 0.788 at 15 °C

Solubility Insoluble in water; Not available (in other liquids)

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition Temperature 260 °C (500 °F)

Decomposition Temperature Not available

Viscosity 1.21 centistokes at 25 °C (kinematic); Not available (dynamic)

Other Information

Physical State Liquid

Molecular Weight Not applicable

Other Physical Property 1 Additional Appearance: Clear Yellow Liquid

## SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 43.0 °C (109.4 °F)

Incompatible Materials

Reacts explosively with: strong oxidizing agents (e.g. perchloric acid).

Not corrosive to metals.

Hazardous Decomposition Products

None known.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; inhalation.

**Acute Toxicity** 

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Stoddard solvent	> 5500 mg/m3 (rat) (4-hour exposure)	5000 mg/kg (rat)	> 3000 mg/kg (rabbit)
Naphthalene	739.2 mg/m3 (rat) (4-hour exposure)	316 mg/kg (mouse)	> 20000 mg/kg (rabbit)
n-Nonane	3200 ppm (rat) (4-hour exposure)	15 g/kg (rat)	Not available
1,2,4-Trimethylbenzene	18000 mg/m3 (rat)	5000 mg/kg (rat)	Not available
Xylene (mixed isomers)	6350 mg/m3 (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Ethylbenzene	4400 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)

LC50: Not applicable.

LD50 (oral): Not applicable. LD50 (dermal): Not applicable.

Skin Corrosion/Irritation

Animal tests show moderate or severe irritation.

Serious Eye Damage/Irritation

Human experience shows mild irritation. The vapour also irritates the eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. Nose and throat irritation. At high concentrations.

Skin Absorption

No information was located.

Ingestion

Not harmful based on animal tests.

Aspiration Hazard

Can cause lung damage if aspirated based on human experience. Death can result.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Causes damage to organs based on studies in people. If inhaled: effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above, effects on the central nervous system, "organic solvent syndrome". Causes Following skin contact: dermatitis. Symptoms may include dry, red, cracked skin (dermatitis). effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above.

May cause damage to organs based on limited evidence. If inhaled and/or following skin contact: at high concentrations harmful effects on the kidneys, harmful effects on the liver.

May cause damage to organs based on limited evidence. If inhaled and/or following skin contact: blood tests may show abnormal results.

Respiratory and/or Skin Sensitization

No information was located. No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
---------------	------	--------	-----	------

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Stoddard solvent	Group 3	Not designated	Not Listed	Not Listed
Naphthalene	Group 2B	A3	Reasonably anticipated	Not Listed
n-Nonane	Not Listed	Not designated	Not Listed	Not Listed
1,2,4-Trimethylbenzene	Not Listed	Not designated	Not Listed	Not Listed
Xylene (mixed isomers)	Group 3	A4	Not Listed	Not Listed
Ethylbenzene	Group 2B	A3	Not Listed	Not Listed

Reproductive Toxicity

**Development of Offspring** 

Conclusions cannot be drawn from the limited studies available.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

May be mutagenic based on limited evidence. (Stoddard solvent)

Interactive Effects

No information was located.

## **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

**Ecotoxicity** 

**Acute Aquatic Toxicity** 

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Stoddard solvent	Not available	Not available		
Naphthalene	0.9-9.8 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	Not available		
n-Nonane	Not available	Not available		
1,2,4-Trimethylbenzene	7.72 mg/L (Pimephales promelas (fathead minnow); 96-hour)	Not available		
Xylene (mixed isomers)	13.4 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	150 mg/L (Daphnia magna (water flea))		
Ethylbenzene	88.00 mg/L (Pimephales promelas (fathead minnow); 96-hour)	2.90 mg/L (Daphnia magna (water flea); 48-hour)		

## **Chronic Aquatic Toxicity**

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
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Stoddard solvent	Not available	Not available
Naphthalene	1.8 mg/L (Oncorhynchus mykiss (rainbow trout); 3 days; fresh water)	Not available
n-Nonane	Not available	Not available
1,2,4-Trimethylbenzene	Not available	Not available
Xylene (mixed isomers)	Not available	Not available
Ethylbenzene	Not available	Not available

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1268	PETROLEUM DISTILLATES, N.O.S.	3	III
US DOT	1268	PETROLEUM DISTILLATES, N.O.S.	3	III
IMO (Marine)	1268	PETROLEUM DISTILLATES, N.O.S.	3	III

Environmental

Special Precautions

Potential Marine Pollutant (1,2,4-Trimethylbenzene)

Hazards

Please note: In containers of 450 L or less this product is not classified as a Dangerous Good

according to TDG Exemption 1.33

In containers of 450L of less, this product meets the requirements of DOT exemption as per 49

CFR, section 173.150 (f).

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

**Proof of Dangerous Goods Classification** 

Date of Classification January 13, 2017

Technical Name PETROLEUM DISTILLATES, N.O.S.

Classification 3 PG III

Classification Method Flashpoint as per Section 9

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#### SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

**USA** 

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

California Proposition 65:

WARNING: Cancer - www.P65Warnings.ca.gov/product.

Custom Regulatory 1

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

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

#### **SECTION 16. OTHER INFORMATION**

SDS Prepared By Compliance and Regulatory Department

Phone No. 905-878-5544

Date of Preparation August 21, 2017

Date of Last Revision June 06, 2019

Revision Indicators The following SDS content was changed on January 10, 2019:

SECTION 1. IDENTIFICATION; Other Means of Identification. The following SDS content was changed on January 14, 2019: SECTION 1. IDENTIFICATION; Other Means of Identification. The following SDS content was changed on February 05, 2019: SECTION 1. IDENTIFICATION; Other Means of Identification. The following SDS content was changed on February 06, 2019: SECTION 14. TRANSPORT INFORMATION; Shipping Information. The following SDS content was changed on February 12, 2019: SECTION 1. IDENTIFICATION; Other Means of Identification. The following SDS content was changed on June 06, 2019: SECTION 1. IDENTIFICATION: Other Means of Identification.

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

Additional Information We are committed to uphold the Industry Consumer Ingredient Communication Voluntary

Initiative.

Please send us your request by visiting our website at www.recochem.com.

Ingredients present (intentionally added ingredients) at a concentration of greater than one percent (1%) shall be listed in descending order of predominance. Ingredients present at a concentration of not more than one percent shall be listed but may be disclosed without

respect to order of predominance.

Disclaimer 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

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may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SDS No.: 1777



# Safety Data Sheet

24 Hour Emergency Phone Numbers Medical/Poison Control:

In U.S.: Call 1-800-222-1222

Outside U.S.: Call your local poison control center

Transportation/National Response Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this SDS are further described in Section 16.

#### 1. Identification

This Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad pueden obtenerse en Espanol si lo riquiere.

Product Name: Alex Plus Acrylic Latex Caulk Plus Silicone - Revision Date: 9/12/2018

All Colors

Product UPC Number: 070798181106, 070798181120, Supercedes Date: 1/12/2016

070798181113, 070798181090, 070798181076, 070798181359, 070798181014, 070798181281, 070798181366, 070798181724, 070798181557, 070798114401

Product Use/Class: Caulking Compound SDS No: 00010002001

Manufacturer: DAP Products Inc. Preparer: Regulatory and Environmental

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non - emergency matters)

SDS Coordinator: MSDS@dap.com

**Emergency Telephone:** 

Transportation: 1-800-535 -5053

1-352-323-3500

Poison Control: 1-800-222-1222

## 2. Hazards Identification

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**Affairs** 

#### **GHS Classification**

Not a hazardous substance or mixture.

#### Symbol(s) of Product

None

#### Signal Word

Not a hazardous substance or mixture.

#### Possible Hazards

6% of the mixture consists of ingredients of unknown acute toxicity

## 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. % GHS Symbols	<b>GHS Statements</b>
Limestone	1317-65-3	45-70 No Information	No Information
Lubricating petroleum oil	72623-86-0	3-7 GHS07	H332
Petroleum distillates	64741-88-4	1-5 GHS06	H331
Dipropylene glycol dibenzoate	27138-31-4	1-5 No Information	No Information
Solvent ref. light paraffinic	64741-89-5	0.5-1.5 GHS06	H331
Diethylene glycol dibenzoate	120-55-8	0.5-1.5 GHS07	H312
Titanium dioxide	13463-67-7	0.1-1.0 No Information	No Information
Quartz	14808-60-7	0.1-1.0 GHS07	H302
Carbon black	1333-86-4	0.1-1.0 No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

#### 4. First-aid Measures

**FIRST AID - INHALATION:** Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: In case of contact, wash skin immediately with soap and water.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

## 5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: No Information

**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

#### Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

## 7. Handling and Storage

**HANDLING:** KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling.

**STORAGE:** Avoid excessive heat and freezing. Do not store at temperatures above 120 degrees F. Store away from caustics and oxidizers.

## 8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u> <u>ACGIH TLV-TWA</u> <u>ACGIH-TLV STEL</u> <u>OSHA PEL-TWA</u> <u>OSHA PEL-CEILING</u>

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Limestone	N.E.	N.E.	15 mg/m3 TWA total dust, 5 mg/m3 TWA respirable fraction	N.E.
Lubricating petroleum oil	N.E.	N.E.	N.E.	N.E.
Petroleum distillates	N.E.	N.E.	N.E.	N.E.
Dipropylene glycol dibenzoate	N.E.	N.E.	N.E.	N.E.
Solvent ref. light paraffinic	N.E.	N.E.	N.E.	N.E.
Diethylene glycol dibenzoate	N.E.	N.E.	N.E.	N.E.
Titanium dioxide	10 mg/m3 TWA	N.E.	15 mg/m3 TWA total dust	N.E.
Quartz	0.025 mg/m3 TWA respirable particulate matter	N.E.	50 μg/m3 TWA	N.E.
Carbon black	3 mg/m3 TWA inhalable particulate matter	N.E.	3.5 mg/m3 TWA	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

#### **Personal Protection**



**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.



SKIN PROTECTION: Rubber gloves.



**EYE PROTECTION:** Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Not required under normal use.



Vapor Density:

Combustibility:

**HYGIENIC PRACTICES:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

## 9. Physical and Chemical Properties

Appearance: Colored Physical State: Paste Odor: Very Slight Ammonia Odor Threshold: Not Established Density, g/cm3: 1.60 - 1.67pH: Between 7.0 and 12.0 Freeze Point. °C: Not Established Viscosity (mPa.s): Not Established Solubility in Water: Partition Coeff., n-octanol/water: No Information Not Established Decomposition Temperature, °C: Not Established **Explosive Limits, %:** Not Established -Not Established Not Established Boiling Range, °C: N.I. - N.I. Auto-Ignition Temperature, °C Minimum Flash Point, °C: Vapor Pressure, mmHg: 100 Not Established **Evaporation Rate:** Slower Than n-Butyl Acetate Flash Method: Seta Closed Cup

Flammability, NFPA:

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

Heavier Than Air

Supports combustion

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Non-Flammable

## 10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

## 11. Toxicological Information

**EFFECT OF OVEREXPOSURE - INHALATION:** Under normal use conditions, this product is not expected to cause adverse health effects. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.

**EFFECT OF OVEREXPOSURE - INGESTION:** Under normal use conditions, this product is not expected to cause adverse health effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury.

**CARCINOGENICITY:** No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Repeated or prolonged exposure may cause mild irritation of eyes and skin. The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2). Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Skin Contact

#### **Acute Toxicity Values**

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u> 1317-65-3	<u>Chemical Name</u> Limestone	Oral LD50 6450 mg/kg Rat	Dermal LD50 >2000 mg/kg	Vapor LC50 >20 mg/L
72623-86-0	Lubricating petroleum oil	>5000 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
64741-88-4	Petroleum distillates	>5000 mg/kg Rat	>2000 mg/kg Rabbit	2.18 mg/L Rat
27138-31-4	Dipropylene glycol dibenzoate	5368 mg/kg Rat	>2000 mg/kg Rabbit	>200 mg/L Rat
64741-89-5	Solvent ref. light paraffinic	>15000 mg/kg Rat	>5000 mg/kg Rabbit	2.18 mg/L Rat
120-55-8	Diethylene glycol dibenzoate	2830 mg/kg Rat	2000 mg/kg Rabbit	>200 mg/L Rat
13463-67-7	Titanium dioxide	>10000 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L
14808-60-7	Quartz	500 mg/kg Rat	>2000 mg/kg	>20 mg/L
1333-86-4	Carbon black	>8000 mg/kg Rat	>3000 mg/kg Rabbit	> 20 mg/L

N.I. = No Information

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## 12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

## 13. Disposal Information

**DISPOSAL INFORMATION:** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

## 14. Transport Information

#### SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT UN/NA Number: N.A.

**DOT Proper Shipping Name:** Not Regulated

DOT Technical Name: N.A.

DOT Hazard Class: N.A.

Hazard SubClass: N.A.

Packing Group: N.A.

## 15. Regulatory Information

#### **SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

#### TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

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#### 16. Other Information

Revision Date: 9/12/2018 Supersedes Date: 1/12/2016

Reason for revision: Revision Description Changed

Product Composition Changed

Substance and/or Product Properties Changed in Section(s):

01 - Product Information
05 - Flammability Information
09 - Physical & Chemical Information
14 - Transportation Information
15 - Regulatory Information
16 - Other Information

Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

**HMIS Ratings:** 

Health: Flammability: Reactivity: Personal Protection:

1 1 0 X

VOC Less Water Less Exempt Solvent, g/L: 37.5

VOC Material, g/L: 27

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.8

VOC Actual, Wt/Wt%: 1.6

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H331 Toxic if inhaled. H332 Harmful if inhaled.

#### Icons for GHS Pictograms shown in Section 3 describing each ingredient:



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

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Revision Number: 004.0 Issue date: 06/27/2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite PL 510 Wood Construction

Adhesive

Product type: Water based adhesive Restriction of Use: None identified

Company address:
Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

**IDH number:** 1538750

Region: United States

Contact information: Telephone: +1 (860) 571-5100

Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING: CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2





#### **Precautionary Statements**

Prevention: Do not breathe dust or fumes. Wash affected area thoroughly after handling. Wear eye and

face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention if you feel unwell. If eye irritation

persists: Get medical attention.

Storage: Not prescribed

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	30 - 40

IDH number: 1538750 Product name: Loctite PL 510 Wood Construction Adhesive

Kaolin	1332-58-7	1 - 5
Ethylene glycol	107-21-1	1 - 5
Quartz (SiO2), <1% respirable	14808-60-7	0.1 - 1
Quartz (SiO2) respirable particulates (RCS) >=10%	14808-60-7	0.1 - 1

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. Get immediate

medical attention.

Skin contact: Wash affected area immediately with soap and water.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If

symptoms develop and persist, get medical attention.

**Ingestion:** Consult a physician if necessary. Do not induce vomiting.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed container for disposal.

Dispose of according to Federal, State and local governmental regulations.

# 7. HANDLING AND STORAGE

**Handling:** Keep out of the reach of children.

IDH number: 1538750

**Storage:** For safe storage, store at or above 0 °C (32°F)

Keep from freezing. Store in a cool, dry area. Keep containers closed when

not in use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

Product name: Loctite PL 510 Wood Construction Adhesive

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Kaolin	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Ethylene glycol	25 ppm TWA Vapor fraction 50 ppm STEL Vapor fraction 10 mg/m3 STEL Aerosol, inhalable.	None	None	None
Quartz (SiO2), <1% respirable	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust.	None	None
Quartz (SiO2) respirable particulates (RCS) >=10%	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust.	None	None

**Engineering controls:** Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection: When engineering controls are not sufficient to prevent inhalation, the use of a

NIOSH approved respirator is required. The use of a self contained breathing

apparatus (SCBA) is required since the occupational exposure limit for

modified acrylamide is unknown.

**Eyelface protection:** Safety goggles or safety glasses with side shields.

IDH number: 1538750 Product name: Loctite PL 510 Wood Construction Adhesive

**Skin protection:**Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:SolidColor:TanOdor:Mild, AcrylicOdor threshold:Not available.pH:7.2 - 7.8

**Vapor pressure:** 15.0000000 mm hg (20.0 °C (68°F))

Boiling point/range: 100 °C (212°F) Melting point/ range: Not available. Specific gravity: 1.224 Vapor density: Heavier than air Flash point: Product is a solid. Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable

**Evaporation rate:** < 0.6 (Butyl acetate = 1)

Solubility in water: Soluble
Partition coefficient (n-octanol/water): Not available.

VOC content: < 0.1 %; 47 g/l (by weight, calculated using CARB method; g/L less water, less

exempts calculated using SCAQMD method)

Viscosity:Not available.Decomposition temperature:Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

IDH number: 1538750

Oxides of carbon. Oxides of nitrogen.

Incompatible materials: None

Reactivity: Not available.

Conditions to avoid: Heat. Do not freeze.

#### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Product name: Loctite PL 510 Wood Construction Adhesive

#### Potential Health Effects/Symptoms

Inhalation: May cause nose, throat and lung irritation. Abrasion of cured material such as by sanding or

grinding could release respirable particles of silica quartz, a cancer hazard by inhalation.

Normal use of this product causes no such release.

Skin contact:May cause skin irritation.Eye contact:Causes serious eye irritation.Ingestion:May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Kaolin	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 5,000 mg/kg	Nuisance dust
Ethylene glycol	Oral LD50 (Rat) = 5.89 g/kg Oral LD50 (Mouse) = 14.6 g/kg Dermal LD50 (Rabbit) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic
Quartz (SiO2), <1% respirable	None	Immune system, Lung, Some evidence of carcinogenicity
Quartz (SiO2) respirable particulates (RCS) >=10%	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Kaolin	No	No	No
Ethylene glycol	No	No	No
Quartz (SiO2), <1% respirable	Known To Be Human Carcinogen.	Group 1	Yes
Quartz (SiO2) respirable particulates (RCS) >=10%	Known To Be Human Carcinogen.	Group 1	Yes

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:**Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** It is the responsibility of the user to determine if an item is hazardous as

defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics

Leaching Procedure (TCLP) 40 CFR 261.20-24.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

IDH number: 1538750 Product name: Loctite PL 510 Wood Construction Adhesive

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#### International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

# 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Ethylene glycol (CAS# 107-21-1).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**Canada Regulatory Information** 

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 2, 3, 9, 15, 16

Prepared by: Product Safety and Regulatory Affairs

**Issue date:** 06/27/2018

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IDH number: 1538750 Product name: Loctite PL 510 Wood Construction Adhesive

# **Safety Data Sheet**

According to OSHA HCS 2012 (29 CFR 1910.1200), Health Canada HPR (SOR/2015-17), and Mexico NOM-018-STPS-2015



# **SECTION 1: Identification**

Product Identifier: Propane

Other means of identification: Commercial Propane(All); EGP; Export Grade Propane; HD5 Propane; LP-Gas; Liquefied

Petroleum Gas; Odorized Propane; Propane (Unstenched);

Propane Commercial; Propane Motor Fuel; Propane for Process; Stenched Propane;

**Unodorized Propane** 

Code: 169570
Issue date: 01-Jul-2020
Relevant identified uses: Fuel

Chemical

Chemical feedstock

Uses advised against: All others

24 Hour Emergency Phone Number: CHEMTREC Global +1 703 527 3887

CHEMTREC United States 1-800-424-9300 CHEMTREC Mexico 01-800-681-9531

Manufacturer/Supplier: Phillips 66 Company

P.O. Box 421959

Houston, Texas 77242-1959

SDS Information: Phone: 800-762-0942

Email: SDS@P66.com

URL: www.phillips66.com/SDS

# **SECTION 2: Hazard identification**

**Classified Hazards** 

H220 - Flammable gases -- Category 1 H280 -- Gases under pressure -- Liquefied gas

Simple asphyxiant

**Hazards Not Otherwise Classified (HNOC)** 

PHNOC: None known

HHNOC: None known

# Label elements



# **DANGER**

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

May displace oxygen and cause rapid suffocation



P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking; P243 - Take precautionary measures against static discharge; P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely; P381 - Eliminate all ignition sources if safe to do so; P410 + P403 - Protect from sunlight. Store in a well-ventilated place

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# SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Propane	74-98-6	80-100
Propene	115-07-1	<20
Ethane	74-84-0	<6
Butane	106-97-8	<5
Isobutane	75-28-5	<2.5

<sup>&</sup>lt;sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

HD-5 COMPOSITION: Propane >90%, Propylene <5%

Odorized products contain small quantities (<0.1%) ethyl mercaptan as an olfactory indicator.

### **SECTION 4: First aid measures**

**Eye Contact:** For contact with the liquefied gas, remove contact lenses if present and easy to do, hold eyelids apart and gently flush the affected eye(s) with lukewarm water. Seek immediate medical attention.

**Skin Contact:** Liquefied gases may cause cryogenic burns or injury. Treat burned or frostbitten skin by flushing or immersing the affected area(s) in lukewarm water. Do not rub affected area. Do not remove clothing that adheres due to freezing. After sensation has returned to the frostbitten skin, keep skin warm, dry, and clean. If blistering occurs, apply a sterile dressing. Seek immediate medical attention.

**Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel. If symptoms persist, seek medical attention.

Ingestion: This material is a gas under normal atmospheric conditions and ingestion is unlikely.

**Most important symptoms and effects, both acute and delayed:** Light hydrocarbon gases are simple asphyxiants and can cause anesthetic effects at high concentrations. Symptoms of overexposure, which are reversible if exposure is stopped, can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting. Continued exposure can lead to hypoxia (inadequate oxygen), rapid breathing, cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.

**Notes to Physician:** Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

# **SECTION 5: Firefighting measures**

NFPA 704: National Fire Protection Association

Health: 2 Flammability: 4 Instability: 0



0 = minimal hazard

1 = slight hazard

2 = moderate hazard

3 = severe hazard

4 = extreme hazard

**Extinguishing Media:** Dry chemical or carbon dioxide is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific hazards arising from the chemical

Unusual Fire & Explosion Hazards: Extremely flammable. Contents under pressure. This material can be ignited by heat,

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sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe) Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Drains can be plugged and valves made inoperable by the formation of ice if rapid evaporation of large quantities of the liquefied gas occurs. Do not allow run-off from fire fighting to enter drains or water courses – may cause explosion hazard in drains and may reignite.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.

Special protective actions for fire-fighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. If this cannot be done, allow fire to burn. Move undamaged containers from immediate hazard area if it can be done safely. Stay away from ends of container. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

#### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Extremely flammable. Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof electrical equipment is recommended. Beware of accumulation of gas in low areas or contained areas, where explosive concentrations may occur. Prevent from entering drains or any place where accumulation may occur. Ventilate area and allow to evaporate. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Water spray may be useful in minimizing or dispersing vapors. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken.

# **SECTION 7: Handling and storage**

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Extremely Flammable. Contents under pressure Gas can accumulate in confined spaces and limit oxygen available for breathing. Use only with adequate ventilation The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-70 and/or API RP 2003 for specific bonding/grounding requirements. Electrostatic charge may accumulate and create a hazardous condition when handling or processing this material. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Cold burns may occur during filling operations. Containers and delivery lines may become cold enough to present cold burn hazard.

Propane and odorant are heavier than air and will collect and pool along the ground or floor. Odorant, therefore, may not be detectable above the location of propane storage or service (for example, odorant in propane released or leaked into the basement of a dwelling may not be detected above the basement).

WARNING - The intensity of the odorant may fade over prolonged storage or in the presence of rust, when placed initially in new or freshly-cleaned storage vessels, or when exposed to masonry.

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Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Store only in approved containers. Post area "No Smoking or Open Flame." Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Avoid exposing any part of a compressed-gas cylinder to temperatures above 125F(51.6C). Gas cylinders should be stored outdoors or in well ventilated storerooms at no lower than ground level and should be quickly removable in an emergency.

# SECTION 8: Exposure controls/personal protection

Occupational exposure limits .				
Chemical Name	ACGIH	OSHA	Mexico	Phillips 66
Propane		TWA-8hr: 1000 ppm TWA-8hr: 1800 mg/m <sup>3</sup>	TWA-8hr: 1000 ppm (VLE-PPT)	
Propene	TWA-8hr: 500 ppm		TWA-8hr: 500 ppm (VLE-PPT)	
Butane	STEL: 1000 ppm Butane, isomers		TWA-8hr: 1000 ppm (VLE-PPT)	
Isobutane	STEL: 1000 ppm Butane, isomers		TWA-8hr: 1000 ppm (VLE-PPT)	

State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

#### Biological occupational exposure limits

None.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** Wear thermal insulating gloves and face shield or eye protection when working with materials that present thermal hazards (hot or cold).

**Respiratory Protection:** A NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used in situations of oxygen deficiency (oxygen content less than 19.5 percent), unknown exposure concentrations, or situations that are immediately dangerous to life or health (IDLH).

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

# SECTION 9: Physical and chemical properties

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Colorless
Physical form of product: Liquefied Gas

Odor: No distinct odor (or skunk, rotten egg or garlic if odorant added)

Odor threshold: No data pH: Not applicable

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Melting / freezing point:

Initial boiling point and boiling range:

Flash point:

-309 °F / -189 °C

-44 °F / -42 °C

-156 °F / -104 °C

Method: Tag Closed Cup (TCC), ASTM D56

Evaporation Rate (nBuAc=1): >1

Flammability (solid, gas): Extremely Flammable

Upper Explosive Limits (vol % in air):No dataLower Explosive Limits (vol % in air):2.1

**Vapor pressure:** 208 psia (Reid VP) @ 100°F / 37.8°C

Vapor density: >1 (air = 1)

**Relative density:** 0.50-0.51 @ 60°F (15.6°C) (water = 1)

Solubility(ies): Negligible Partition coefficient n-octanol /water (log KOW): No data

Autoignition temperature: 842 °F / 450 °C

Decomposition temperature:No dataViscosity:N/DMolecular weight:No data

Other information

Particle Size:No dataPour point:No dataPercent volatile100%Bulk densityNo data

# **SECTION 10: Stability and reactivity**

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of Hazardous Reactions: Hazardous reactions not anticipated.

Conditions to Avoid: Avoid all possible sources of ignition. Heat will increase pressure in the storage tank.

Incompatible Materials: Avoid contact with acids, aluminum chloride, chlorine, chlorine dioxide, halogens and oxidizing agents.

Hazardous Decomposition Products: Not anticipated under normal conditions of use.

### SECTION 11: Toxicological information

#### **Information on Toxicological Effects**

#### **Substance / Mixture**

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful	Simple Asphyxiant. May displace oxygen and cause rapid suffocation. See section 4 for more information.	>20,000 ppm (gas, estimated)
Dermal	Skin absorption is not anticipated		Not applicable
Oral	Ingestion is not anticipated		Not applicable

Likely Routes of Exposure: Inhalation, eye contact, skin contact

Aspiration Hazard: Not applicable

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**Skin Corrosion/Irritation:** Not expected to be irritating. Contact with the liquefied or pressurized gas may cause frostbite ("cold" burn).

**Serious Eye Damage/Irritation:** Not expected to be irritating. Contact with the liquefied or pressurized gas may cause momentary freezing followed by swelling and eye damage.

Skin Sensitization: Skin contact is not anticipated.

**Respiratory Sensitization:** Not expected to be a respiratory sensitizer.

Specific Target Organ Toxicity (Single Exposure): Not expected to cause organ effects from single exposure.

Specific Target Organ Toxicity (Repeated Exposure): Not expected to cause organ effects from repeated exposure.

Carcinogenicity: Not expected to cause cancer.

**Germ Cell Mutagenicity:** Not expected to cause heritable genetic effects.

Reproductive Toxicity: Not expected to cause reproductive toxicity.

**Other Comments:** High concentrations may reduce the amount of oxygen available for breathing, especially in confined spaces. Hypoxia (inadequate oxygen) during pregnancy may have adverse effects on the developing fetus.

The odorant, ethyl mercaptan, can be irritating to the eyes, skin and respiratory tract. At high concentrations, a person can temporarily lose the ability to smell ethyl mercaptan. In addition, some individuals may have an impaired sense of smell, which inhibits the detection of the odorant.

#### **Information on Toxicological Effects of Components**

#### **Propane**

Reproductive Toxicity: No adverse reproductive or developmental effects were observed in rats exposed to propane; no observed adverse effect level = 12,000 ppm.

Target Organ(s): No systemic or neurotoxic effects were noted in rats exposed to concentrations of propane as high as 12,000 ppm for 28 days.

#### **Butane**

Reproductive Toxicity: No adverse reproductive or developmental effects were observed in rats exposed to butane; no observed adverse effect level = 12,000 ppm.

Target Organ(s): No systemic or neurotoxic effects were noted in rats exposed to concentrations of butane as high as 9,000 ppm for 28 days.

#### Isobutane

Reproductive Toxicity: No adverse developmental effects were observed in rats exposed to concentrations of isobutane as high as 9000 ppm. Fertility and mating indices may have been affected at 9000 ppm but no effects were observed at 3000 ppm (NOAEL).

Target Organ(s): No systemic or neurotoxic effects were noted in rats exposed to concentrations of isobutane as high as 9,000 ppm for 28 days.

# SECTION 12: Ecological information

#### GHS Classification:

#### No classified hazards

**Toxicity:** Petroleum gases will readily evaporate from the surface and would not be expected to have significant adverse effects in the aquatic environment.

**Persistence and Degradability:** The hydrocarbons in this material are expected to be inherently biodegradable. In practice, hydrocarbon gases are not likely to remain in solution long enough for biodegradation to be a significant loss process. Hydrogen sulfide, if present in refinery gas streams, will be rapidly oxidized in water and insoluble sulfides precipitated from water when metallic radicals are present.

**Bioaccumulative Potential:** Since the log Kow values measured for refinery gas constituents are below 3, they are not regarded as having the potential to bioaccumulate.

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**Mobility in Soil:** Due to the extreme volatility of petroleum gases, air is the only environmental compartment in which they will be found. In air, these hydrocarbons undergo photodegradation by reaction with hydroxyl radicals with half-lives ranging from 3.2 days for n-butane to 7 days for propane.

Other adverse effects: None anticipated.

# SECTION 13: Disposal considerations

This material is a gas and would not typically be managed as a waste.

# SECTION 14: Transport information

UN Number: UN1978

**UN proper shipping name:** Propane, **Transport hazard class(es):** 2.1

Packing Group: None

Environmental Hazard(s): This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant

**Special precautions for user:** For domestic transportation only, UN1075 may be substituted for the UN number shown as long as the substitution is consistent on package markings, shipping papers, and emergency response information. See 49 CFR 172.102 Special Provision 19.

Containers of NON-ODORIZED liquefied petroleum gas must be marked either NON-ODORIZED or NOT ODORIZED as of September 30, 2006. [49 CFR 172.301(f), 326(d), 330(c) and 338(e)]

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

# SECTION 15: Regulatory information

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CERCLA/SARA - Section 313 and 40 CFR 372

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Propene	<20	1.0%

<sup>&</sup>lt;sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### **EPA (CERCLA) Reportable Quantity (in pounds)**

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

# **California Proposition 65**

WARNING: Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm are created by the combustion of propane. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.

All components are either on the DSL, or are exempt from DSL listing requirements.

## SECTION 16: Other information

Issue date	Previous Issue Date:	SDS Number	Status:
01-Jul-2020	18-Jul-2017		FINAL

400570 Pressure

 169570 - Propane
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 Issue date: 01-Jul-2020
 Status: FINAL

169570 - Propane Page 8/8
Issue date: 01-Jul-2020 Status: FINAL

\_\_\_\_\_

#### **Revised Sections or Basis for Revision:**

Periodic review and update

#### Mexican NOM-018-STPS-2015:

The information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

#### **Precautionary Statements:**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P243 - Take precautionary measures against static discharge

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely

P381 - Eliminate all ignition sources if safe to do so

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

#### **Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; HPR = Hazardous Products Regulations; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### Disclaimer of Expressed and implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

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Issue date: 01-Jul-2020 Status: FINAL



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# **Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

#### 1 Identification

· Product identifier

· Trade name: PVC Tape

· Product code:

360: 3/4" X 60' X 7 Mil. Electrical Tape (Black)

· 360BLU: 3/4" X 60' X 7 Mil. Electrical Tape (Blue) 360BRN: 3/4" X 60' X 7 Mil. Electrical Tape (Brown) 360GRN: 3/4" X 60' X 7 Mil. Electrical Tape (Green) 360GRY: 3/4" X 60' X 7 Mil. Electrical Tape (Gray) 360ORG: 3/4" X 60' X 7 Mil. Electrical Tape (Orange) 360RED: 3/4" X 60' X 7 Mil. Electrical Tape (Red) 360VLT: 3/4" X 60' X 7 Mil. Electrical Tape (Violet) 360WHT: 3/4" X 60' X 7 Mil. Electrical Tape (White) 360YEL: 3/4" X 60' X 7 Mil. Electrical Tape (Yellow)

· Recommended use and restriction on use

· Recommended use: Electrical Tape

· Restrictions on use: No relevant information available.

- Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

L.H. Dottie Company 6131 Garfield Ave. Commerce, CA 90040

(323) 725-1000

· Emergency telephone number:

ChemTel Inc.

+1 (800)255-3924, +1 (813)248-0585

# 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements This product does not have a classification according to the GHS regulation.
- Hazard pictograms: Not regulated.
- · Signal word: Not regulated.
- · Hazard-determining components of labeling: Not applicable.
- · Hazard statements: Not regulated.
- · Precautionary statements: Not regulated.
- Other hazards There are no other hazards not otherwise classified that have been identified.

(Cont'd. on page 2)



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# **Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

**Trade name: PVC Tape** 

(Cont'd. of page 1)

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components: None in reportable quantities.

#### 4 First-aid measures

- Description of first aid measures
- After inhalation:

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Brush off loose particles from skin.

Clean with water and soap.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · Most important symptoms and effects, both acute and delayed: No relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

No relevant information available.

# 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

- For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the collected material according to regulations.

(Cont'd. on page 3)



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# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

**Trade name: PVC Tape** 

(Cont'd. of page 2)

#### Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

- ·Handling
- · Precautions for safe handling: No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s): No relevant information available.

# 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

- · Engineering controls: No relevant information available.
- Breathing equipment:

Not required under normal conditions of use.

Use respiratory protection when grinding or cutting material.

Protection of hands:

Not required under normal conditions of use.

Gloves are advised for repeated or prolonged contact.

- · Eye protection: Follow OSHA or EU guidelines concerning the use of protective eyewear.
- · Body protection: Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

(Cont'd. on page 4)



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# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

Trade name: PVC Tape

(Cont'd. of page 3)

Physical and chemical prope	erties
Information on basic physical a	
Form:	Roll of tape
Color:	Various colors
· Odor:	Slight
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Not determined.
Vapor pressure:	Not determined.
Density:	1.21 g/cm³ (10.097 lbs/gal)
Relative density:	Not determined.
· Vapor density:	Not applicable.
Evaporation rate:	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	No relevant information available.

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

(Cont'd. on page 5)



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# **Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

Trade name: PVC Tape

(Cont'd. of page 4)

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid: Excessive heat.

· Incompatible materials: No relevant information available.

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Chlorine compounds

# 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Eye contact.

Skin contact.

- · Repeated dose toxicity: No relevant information available.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

# 12 Ecological information

- ·Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes: Generally not hazardous for water

(Cont'd. on page 6)



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# **Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

**Trade name: PVC Tape** 

(Cont'd. of page 5)

Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

Other adverse effects: No relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	Not regulated.
· UN proper shipping name · DOT, ADR, IMDG, IATA	Not regulated.
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA · Class	Not regulated.
· Packing group · DOT, ADR, IMDG, IATA	Not regulated.
· Environmental hazards · Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.

(Cont'd. on page 7)



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# **Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

**Trade name: PVC Tape** 

(Cont'd. of page 6)

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories
- EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

- · Canadian substance listings
- · Canadian Domestic Substances List (DSL):

All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Date of preparation / last revision 03/23/2016 / -
- Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods

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# Safety Data Sheet

# acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016 Revision: 03/23/2016

Trade name: PVC Tape

(Cont'd. of page 7)

DOT: US Department of Transportation IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

#### · Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by: ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



PVC Pipe Safety Data Sheet Revision Date: 5/16/2016

SECTION 1 – PRODUCT AND COMPANY INFORMATION					
COMMON NAME:	COMMON NAME: Polyvinyl Chloride (PVC) Type 1 Pipe/Conduit/Fittings/Accessories				
CHEMICAL NAME:	CHEMICAL NAME: Not Applicable. Formulation. See Section 3				
FORMULA:	Mixture / Formulation				
PRODUCT CAS NO.: Mixture. See Section 3					
RECOMMENDED USE: PVC Pipe for Electrical Wire and Cable					
SUPPLIER:	CANTEX Inc.	CANTEX Inc.			
ADDRESS:	301 Commerce St., Suite 2700	2101 Southeast 1 <sup>st</sup> Street			
CITY, STATE, ZIP:	Fort Worth, TX 76102	PO Box 340 - Mineral Wells, TX 76068			
PHONE:	817-215-7000	940-325-3344			

# **SECTION 2 – HAZARDS IDENTIFICATION**

All ingredients inserted during the manufacturing process and are not expected to generate any hazards in handling or in use under normal conditions.

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.



#### **Hazard Statement**

PVC materials in pipe form are inert and should not constitute any hazard in normal use or handling. When exposed to fire, it may emit fumes and these could cause irritation to eyes and respiratory system.

#### **Classification of Mixture**

Eye and respiratory system irritation

#### **Signal Word**

Warning

# **Precautionary Statement**

Avoid breathing fumes/gases when product is exposed to fire.

#### SECTION 3 – COMPOSITION / INFORMATION OF INGREDIENTS

<b>Boiling Point</b>	N/A	Appearance & Odor	Rigid / No Odor
Melting Point	N/A	% Volatile by Weight	N/A
Specific Gravity (H <sub>2</sub> O=1)	1.4 – 1.6 gms/cc	рН	N/A
Solubility in Water	Insoluble	Particle Size	N/A
Vapor Pressure (MM=Hg)	N/A	Vapor Density (AIR=1)	N/A

#### **SECTION 4 – FIRST AID MEASURES**

Page 1 of 3

SDS – CANTEX Inc. Revision Date: May 16, 2016



PVC Pipe Safety Data Sheet Revision Date: 5/16/2016

If irritation of eyes, ski Provide protection pri	•	piratory system persists, remove the affected individual from the incident area.		
Trovide protection pri	oi ie-eill	•		
		SECTION 5 – FIRE FIGHTING MEASURES		
Flash Point	_	pplicable to solid products		
Ignition Temperature	Above	e 734°F (390°C)		
Flammable Limits in Air (% by volume)	Lowe	r: N/A Upper: N/A		
<b>Extinguishing Media</b>	Wate	Water, foam, and dry chemicals		
Special Fire Fighting	PVC g	gives off thick smoke and toxic gasses and fumes such as carbon monoxide when		
Procedures	burnii	ng. Firefighters must wear self-contained breathing apparatus.		
Unusual Fire and Explosion Hazards		oustion products are hazardous and toxic in nature. Thick smoke may obscure  n. PVC pipe and conduit will not burn unless supported by other combustible  rial.		
	<b>,</b>	SECTION 6 – ACCIDENTAL RELEASE MEASURES		
Threshold Limit Value	None	established		
Efforts of Overexposure	Unde health which	Under most circumstances, exposure to PVC pipe materials poses no significant risk to health. During fire, toxic fumes such as carbon monoxide and other gasses are given off, which are injurious to all sensitive skin areas and the breathing function. Skin irritation and coughing may result.		
		SECTION 7 – HANDLNIG AND STORAGE		
<b>Environmental Precau</b>	itions			
Steps to be taken in case Not applicable to PVC in pipe form. In pelletized, machined shavings, or off-cut				
material is released or spilled form, sweep up and place in suitable container for disposal.				
	SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION			
Special Protection Info	ormation	1		
Ventilation	Me	echanical (General) in areas of thermal processing.		
Respiratory protection	n No	on-toxic nuisance dust mask may be advised in presence of heavy saw dusting.		
Protective Equipment				
	SE	ECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
The installation of PVC conduit it may require primers and solvent cements. The end user must comply with all safety requirements recommended by the primer and solvent cement manufacturers. Avoid continued or prolonged breathing fumes emitted by these products.				
		SECTION 10 – STABILITY AND REACTIVITY		
Stability		Stable		
Hazardous Decompos Products		Carbon Monoxide, Hydrogen Chloride, Carbon Dioxide		
		Page 2 of 3		

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SDS – CANTEX Inc. Revision Date: May 16, 2016



PVC Pipe Safety Data Sheet Revision Date: 5/16/2016

**Hazardous Polymerization** Will not occur

**SECTION 11 – TOXICOLOGICAL INFORMATION** 

No toxicological data is available for this finished product.

**SECTION 12 – ECOLOGICAL INFORMATION** 

PVC is inert. No known significant or critical hazards.

**SECTION 13 – DISPOSAL CONSIDERATIONS** 

Landfill. PVC is an inert plastic material. No special disposal procedures are necessary other than complying with local, state, and federal regulations.

#### **SECTION 14 – TRANSPORT INFORMATION**

Proper Shipping Name	N/A
Hazard Class	Non-hazardous
Shipping Label	None required
UN/NA Hazard Number	Not required

#### **SECTION 15 – REGULATORY INFORMATION**

N/A

#### **SECTION 16 – OTHER INFORMATION**

# **Special Precautions**

California Proposition 65 Statement – No chemicals used to manufacture CANTEX Inc. products are reportable under this law.

#### **Disclaimer of Liability**

The data contained herein are based on information that CANTEX believes to be true and accurate, but no expressed or implied warranty is made with regard to accuracy of such data or its suitability for a given situation. The information utilized in this document was collected from other SDS's with similar products.

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SDS – CANTEX Inc. Revision Date: May 16, 2016



# **C6: Portland Cement Based Concrete Products**

# **SAFETY DATA SHEET** (Complies with OSHA 29 CFR 1910.1200)

# **SECTION I: PRODUCT IDENTIFICATION**

The QUIKRETE® Companies 5 Concourse Parkway, Suite 1900 Atlanta, GA 30328

**Emergency Telephone Number** INFOTRAC (800) 535-5053 Information Telephone Number (800) 282-5828

Revision: Mar-19

SDS C6

QUIKRETE® Product Name		Item #(s)
Fast-Setting Concrete Mix		1004-50, -60
All-Star Fast Setting Concrete Mix		1004-50
Commercial Grade FastSet <sup>™</sup> Concrete	Mix	1004-51
Post Haste		1004-65
Q-MAX Pro Concrete Mix		1004-81
Commercial Grade Fast Setting Pro Co	ncrete Mix	1004-84
All-Star 10 Minute Instant Post Mix		1005-51
Fence & Post Mix		1105-30
FastSet <sup>™</sup> Water-Stop Cement –Zip & M	1ix	1121-15
Commercial Grade FastSet <sup>™</sup> Cement		1124-92
Hydraulic Water Stop		1126-00
Concrete Resurfacer		1131-40
Recap Concrete Resurfacer		
Multipurpose Concrete Resurfacer		1131-45
Bonded Topping Mix		1133-04, 1018, 1017
FastSet <sup>™</sup> Stucco Patch		1139-92
Architectural Finish		1220-55
Commercial Grade FastSet <sup>™</sup> Repair M	ortar – Zip And Mix	1241
Commercial Grade FastSet <sup>™</sup> Repair M	ortar	1241-60
Polymer Modified Structural Concrete -	Extended Set	1242-85
Commercial Grade FastSetTM Polymer	Modified DOT Mix	1244-54
Commercial Grade FastSet <sup>TM</sup> DOT Mix		1244-56
Commercial Grade FastSet <sup>TM</sup> DOT Dec		1244-58
Commercial Grade FastSet <sup>TM</sup> DOT Mix		1244-81
Commercial Grade FastSet <sup>™</sup> Non-Shrir	nk Grout	1585-09, -20, -50
Commercial Grade FastSet <sup>™</sup> All-Crete		1585-59
Mix 801 FastSet <sup>™</sup> DOT PM Overlay		NR801552/80801552
Rapid Road Repair – CA		
SDS C6	QUIKRETE Companies, LLC	3/11/2019



**Product Use:** Portland cement-based, rapid-setting materials for general construction or repair.

See most current revision of this document at www.QUIKRETE.com.

#### **SECTION II - HAZARD IDENTIFICATION**

Hazard-determining components of labeling: Silica, Portland cement

# 2.1 Classification of the substance or mixture

Carcinogen – Category 1A
Skin Corrosion – Category 1B
Skin Sensitization – Category 1B
Specific Target Organ Toxicity Repeat Exposure – Category 1

Specific Target Organ Toxicity Repeat Exposure – Category 1
Specific Target Organ Toxicity: Single Exposure – Category 3

# 2.2a Signal word DANGER!

#### 2.2b Hazard Statements

May cause cancer through chronic inhalation
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation

# 2.2c Pictograms







# 2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection, protective clothing and rubber boots.

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

Wash thoroughly after handling.

Use only in a well-ventilated area.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

SDS C6 QUIKRETE Companies, LLC 3/11/2019



easy to do. Continue rinsing.

If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

Immediately seek medical advice if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/containers in accordance with all regulations.

#### 2.3 Additional Information

The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

**2.3a HNOC – Hazards not otherwise classified:** Not applicable

2.3b Unknown Acute Toxicity: None

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SECTION III	- HAZARDOUS	INGREDIENTS/IDI	ENTITY INFORMAT	ION
	-			

Hazardous Components	CAS No.	% by Weight	
Sand, Silica, Quartz	14808-60-7	40-70*	
Portland Cement	65997 15 1	10-30*	
Calcium Sulfoaluminate	65997-16-2	10-30*	
Calcium Aluminate	12042-68-1	5-10*	
Calcium Sulfate	10101-41-4	1-5*	
Limestone Dust	01317-65-3	1-5*	

<sup>\*</sup>The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.

## SECTION IV - FIRST AID MEASURES

# 4.1 Description of the first-aid measures

# General information:

**After inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

**After skin contact:** Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

# 4.2 Most important symptoms/effects, acute and delayed

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns.

Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

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Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

**4.3 Indication of immediate medical attention and special treatment needed**: Immediately seek medical advice if symptoms are significant or persist.

#### **SECTION V - FIRE FIGHTING MEASURES**

- **5.1 Flammability of the Product:** Non-flammable and non-combustible
- **5.2 Suitable extinguishing agents:** Treat for surrounding material
- 5.3 Special hazards arising from the substance or mixture: None
- 5.3a Products of Combustion: None
- **5.3b Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of shocks

#### SECTION VI – ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.
- 6.2 Methods and material for containment and cleaning up:

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Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

### **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE**

# 7.1 Handling

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8).Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

# 7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

**Further information about storage conditions:** Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

#### SECTION VIII - EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:				
Hazardous Components	CAS No.	PEL (OSHA)	TLV (ACGIH)	

		mg/M <sup>3</sup>	mg/M³
Silica Sand, crystalline	14808-60-7	0.05	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Calcium Sulfoaluminate	65997-16-2	15	10
Calcium Aluminate	12042-68-1	5 (resp) 15 (total)	1 (resp)
Calcium Sulfate	10101-41-4	5 (resp) 15 (total)	10 (resp)
Limestone Dust	01317-65-3	5 (resp) 15 (total)	10 (resp)

# **8.2 Exposure Controls**

Use ventilation adequate to keep exposures below recommended exposure limits.

# 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

# 8.3a Personal protective equipment Protection of hands and feet:

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Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Wear rubber boots when stepping in concrete. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization.

## Eye protection:

Wear approved eye protection properly fitted dust- or splash-proof chemical safety glasses.

# **Respiratory protection:**

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

#### **SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

**General Information** 

**Appearance** Form: Granular Solid

Color: Gray to gray-brown colored

Odor: None

pH-value at 20°C (68 °F): 13 (10%)
Boiling point/Boiling range: Not applicable
Flash point: Not applicable

**Auto igniting:** Product is not self-igniting

Vapor pressure at 21°C (70°F) Not available Density at 25°C (77°F): 2.6 to 3.15

Solubility in / Miscibility with

Water: Insoluble VOC content: 0 g/L VOC

#### SECTION X - STABILITY AND REACTIVITY

# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

# 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

# 10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

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# 10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

# 10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

#### **SECTION XI – TOXICOLOGICAL INFORMATION**

**11.1 Exposure Routes:** Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

# 11.2 Symptoms related to physical/chemical/toxicological characteristics:

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

# 11.3 Delayed, immediate and chronic effects of short-term and long-term exposure Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) may cause respiratory

irritation.

Aspiration Hazard: Not available

# **Long Term**

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Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs

through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

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#### **SECTION XII – ECOLOGICAL INFORMATION**

## 12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

# 12.2 Persistence and degradability

No further relevant information available.

# 12.3 Bioaccumulative potential:

No further relevant information available.

# 12.4 Mobility in soil

No further relevant information available.

# 12.5 Other Adverse Effects

No further relevant information available.

#### **SECTION XIII - DISPOSAL CONSIDERATIONS**

# 13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

# 13.2 Other disposal considerations

# **Uncleaned packaging**

**Recommendation:** Disposal must be made in accordance with local, state and federal regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION				
DOT (U.S.) TDG (Canada)				
UN-Number	Not Regulated	Not Regulated		
UN proper shipping name	Not Regulated	Not Regulated		
Transport Hazard Class(es)	Not Regulated	Not Regulated		
Packing Group (if applicable)	Not Regulated	Not Regulated		

#### 14.1 Environmental hazards:

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Not Available

# 14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not available

# 14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

#### **SECTION XV – OTHER REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

#### Canada

**WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

#### 15.2 US Federal Information

# **SARA 302/311/312/313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

**RCRA:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

**CERCLA:** Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

**FDA:** Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

**NTP:** Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

**OSHA Carcinogen:** Crystalline silica (quartz) is not listed.

# 15.3 State Right to Know Laws California Prop. 65 Components

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**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and Portland cement which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**Massachusetts Toxic Use Reduction Act:** Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

### 15.4 Global Inventories

**DSL** All components of this product are on the Canadian DSL list.

**TSCA No.:** Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

#### **SECTION XVI – OTHER INFORMATION**

Last Updated: March 11, 2019

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by The QUIKRETE Companies, LLC

**End of SDS** 

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QUIKRETE Companies, LLC

3/11/2019

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

Version 1.2 Print Date 03/12/2018

Revision Date 07/12/2016 SDS Number 350000010777

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-

553)

Recommended use : Insecticide

Manufacturer, importer, : S.C. Johnson & Son, Inc.

**supplier** 1525 Howe Street

Racine WI 53403-2236

**Telephone** : +18005585252

**Emergency telephone** : 24 Hour Medical Emergency Phone: (866)231-5406

**number** 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

Clobally Harmonizou Cyclom (Cric) Glacomodition					
Hazard classification	Hazard category	Hazards identification			
Aerosol	Category 1	Extremely flammable aerosol.			
Aspiration hazard	Category 1	May be fatal if swallowed and			
		enters airways.			
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated.			

#### Labelling

#### **Hazard symbols**

Flame

Gas cylinder

Health hazard

## Signal word

Danger

#### **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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May be fatal if swallowed and enters airways.

#### **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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

Do NOT induce vomiting.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

Dispose of contents/ container to an approved incineration plant.

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

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

Do not pierce or burn, even after use.

Other hazards : None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Distillates (petroleum), hydrotreated light	64742-47-8	60.00 - 100.00
Carbon dioxide	124-38-9	1.00 - 5.00
Isopropanol	67-63-0	1.00 - 5.00
Cypermethrin	52315-07-8	0.0001 - 0.10
Prallethrin	23031-36-9	0.0001 - 0.10

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.

## 4. FIRST AID MEASURES

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

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according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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Ingestion : IF SWALLOWED: Immediately call a POISON CENTER or

doctor/ physician. Do NOT induce vomiting.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire. Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter

drains or water courses.

**Further information** : Fight fire from maximum distance or protected area. Cool and

use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or

explosion do not breathe fumes.

NFPA Classification : NFPA Level 3 Aerosol

#### **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Remove all sources of ignition.

Wear personal protective equipment. Wash thoroughly after handling.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Use appropriate containment to avoid environmental

contamination.

Outside of normal use, avoid release to the environment.

Methods and materials for containment and

cleaning up

If damage occurs to aerosol can:

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Use only non-sparking equipment.

Dike large spills.

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according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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Clean residue from spill site.

### 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

: Avoid contact with skin, eyes and clothing.

Do not enter places where used or stored until adequately

ventilated.

For personal protection see section 8.

Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Pressurized container.

Do not pierce or burn, even after use.

Advice on protection

against fire and explosion

Keep away from sources of ignition - No smoking.

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

**Storage** 

Requirements for storage :

areas and containers

Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Keep away from food, drink and animal feedingstuffs.

Keep in a dry, cool and well-ventilated place.

Store locked up.

according to Hazard Communication Standard; 29 CFR 1910.1200



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non- standard units	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Carbon dioxide	124-38-9	9,000 mg/m3	5,000 ppm	-	OSHA TWA
Carbon dioxide	124-38-9	-	30,000 ppm	-	ACGIH STEL
Carbon dioxide	124-38-9	-	5,000 ppm	-	ACGIH TWA
Isopropanol	67-63-0	980 mg/m3	400 ppm	-	OSHA TWA
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA

### Personal protective equipment

**Respiratory protection** : Do not spray in enclosed areas.

**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

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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Form aerosol

Color clear

Odor characteristic

Odour Threshold : No data available

рΗ : Not applicable

Melting point/freezing point : No data available

Initial boiling point and

boiling range

: No data available

Flash point : 22 °C

71.6 °F

**Evaporation rate** : No data available

Flammability (solid, gas) : Sustains combustion

Upper/lower flammability or : No data available

explosive limits

Vapour pressure : Not applicable

Vapour density : No data available

Relative density : 0.81 g/cm3 at 21 °CGLP: yes

Solubility(ies) : negligible

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according to Hazard Communication Standard; 29 CFR 1910.1200



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Partition coefficient: n-

octanol/water

: No data available

: No data available Auto-ignition temperature

**Decomposition temperature** : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Volatile Organic : 3 % - additional exemptions may apply

Compounds \*as defined by US Federal and State Consumer Product

Total VOC (wt. %)\* Regulations

Other information : None identified

## **10. STABILITY AND REACTIVITY**

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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## 11. TOXICOLOGICAL INFORMATION

**Emergency Overview** : Danger

Acute oral toxicity : Acute inhalation toxicity :

Acute dermal toxicity :

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Acute toxicity	No classification proposed	-
Acute toxicity	No classification proposed	-
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 exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	Category 1	-

Aggravated Medical : None known.

Condition

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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## 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
Distillates (petroleum), hydrotreated light	static test LC50 OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	> 1,000 mg/l	96 h
Carbon dioxide	No data available			
Isopropanol	flow- through test LC50	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h
Cypermethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00283 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.00001 mg/l	28 d
Prallethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.012 mg/l	96 h
	flow- through test	Oncorhynchus mykiss (rainbow trout)	0.003 mg/l	90 d

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according to Hazard Communication Standard; 29 CFR 1910.1200



# RAID® WASP & HORNET KILLER 33 (EPA Reg. No. 4822-553)

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NOEC		

## Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Distillates (petroleum), hydrotreated light	EC50 OECD Test Guideline 202	Daphnia (water flea)	> 1,000 mg/l	48 h
Carbon dioxide	No data available			
Isopropanol				
	semi- static test NOEC	Daphnia magna	30 mg/l	21 d
Cypermethrin	EC50	Daphnia magna (Water flea)	0.00471 mg/l	48 h
	NOEC	Daphnia magna (Water flea)	0.00004 mg/l	21 d
Prallethrin	EC50	Daphnia magna (Water flea)	0.0062 mg/l	48 h
	NOEC	Daphnia magna	0.00065 mg/l	21 d

## Toxicity to aquatic plants

Components	End point	Species	Value	Exposure

according to Hazard Communication Standard; 29 CFR 1910.1200



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				time
Distillates (petroleum), hydrotreated light	ErC50 OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	> 1,000 mg/l	72 h
Carbon dioxide	No data available			
Isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h
Cypermethrin	ErC50	Selenastrum capricornutum, Skeletonema costatum	> 0.0033 mg/l	72 h
Prallethrin	EC50	Pseudokirchneriella subcapitata (green algae)	2 mg/l	96 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Distillates (petroleum), hydrotreated light	69 %	28 d	Readily biodegradable
Carbon dioxide	No data available		
Isopropanol	78 %	20 d	Readily biodegradable
Cypermethrin	0.6 - 1.4 %	33 d	Not readily biodegradable.
Prallethrin	No data available		Not readily biodegradable.

## **Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Distillates (petroleum), hydrotreated light	61 - 159	No data available
Carbon dioxide	No data available	No data available

according to Hazard Communication Standard; 29 CFR 1910.1200



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Isopropanol	< 100	0.05
Cypermethrin	373.4 Measured	5.3 - 5.6
Prallethrin	No data available	4.49

## **Mobility**

Component	End point	Value
Distillates (petroleum), hydrotreated light	No data available	
Carbon dioxide	No data available	
Isopropanol	Koc	1.1 estimated
Cypermethrin	Кос	80653 - 574360
Prallethrin	No data available	

## PBT and vPvB assessment

Component	Results
Distillates (petroleum),	Not fulfilling PBT and vPvB criteria
hydrotreated light	
Isopropanol	Not fulfilling PBT and vPvB criteria
Cypermethrin	Not fulfilling PBT and vPvB criteria
Prallethrin	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

### 13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

For disposal information, please read and follow Disposal

instructions on the pesticide label.

Consumer may discard empty container in trash, or recycle

where facilities exist.

according to Hazard Communication Standard; 29 CFR 1910.1200



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#### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper	AEROSOLS,	AEROSOLS,	AEROSOLS,
shipping name	Flammable	Flammable	Flammable
Transport hazard	2.1	2	2.1
class(es)			
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check	product, please	product, please check
	transport documents.	check transport	transport documents.
		documents.	

#### 15. REGULATORY INFORMATION

### FIFRA Labeling

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:

## CAUTION:

#### CONTENTS UNDER PRESSURE.

Exposure to temperatures above 130° F may cause bursting.

Extremely flammable.

This product is extremely toxic to fish and aquatic invertebrates.

Drift and runoff may be hazardous to fish in water adjacent to treated areas.

Notification status : All ingredients of this product are listed or are excluded from

listing on the U.S. Toxic Substances Control Act (TSCA)

13/15

according to Hazard Communication Standard; 29 CFR 1910.1200



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Chemical Substance Inventory.

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Registration # / Agency 4822-553/US/EPA

### **16. OTHER INFORMATION**

**HMIS Ratings** 

2
3
0

**NFPA Ratings** 

iti i A italiliga		
Health	2	
Fire	3	
Reactivity	0	
Special	-	

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**

according to Hazard Communication Standard; 29 CFR 1910.1200



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Prepared by	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)



## **Safety Data Sheet**

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 10-2644-2
 Version Number:
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 Issue Date:
 05/21/18
 Supercedes Date:
 01/04/18

## **SECTION 1: Identification**

#### 1.1. Product identifier

SCOTCHKOTE BRAND ELECTRICAL COATING

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

#### Recommended use

MOISTURE PROOFING FOR WIRE CONNECTIONS, Fast drying sealant and bonding agent for joints wrapped with plastic electrical tape.

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Electrical Markets Division

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

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

### 1.4. Emergency telephone number

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

## **SECTION 2: Hazard identification**

### 2.1. Hazard classification

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2. Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (single exposure): Category 3. Specific Target Organ Toxicity (repeated exposure): Category 1.

### 2.2. Label elements

#### Signal word

Danger

## **Symbols**

Flame | Exclamation mark | Health Hazard |

#### **Pictograms**

**Page 1 of** 14







#### **Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure:

nervous system | sensory organs |

### **Precautionary Statements**

#### **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/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

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

Wash thoroughly after handling.

#### **Response:**

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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 advice/attention. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to

extinguish.

### Storage:

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

## Disposal:

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

7% of the mixture consists of ingredients of unknown acute dermal toxicity. 34% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

Ingredient	C.A.S. No.	% by Wt
ACETONE	67-64-1	40 - 45 Trade Secret *
ACRYLONITRILE-BUTADIENE POLYMER	9003-18-3	10 - 15
METHYL ETHYL KETONE	78-93-3	10 - 15 Trade Secret *
TOLUENE	108-88-3	10 - 15 Trade Secret *
GLYCEROL ESTERS OF ROSIN ACIDS	8050-31-5	5 - 10
PHENOL-FORMALDEHYDE RESIN	25085-50-1	5 - 10 Trade Secret *
SALICYLIC ACID	69-72-7	1 - 2 Trade Secret *
ZINC OXIDE	1314-13-2	1 - 2
ANTIOXIDANT	68411-46-1	0.1 - 1

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable.

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

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

## Hazardous Decomposition or By-Products

<u>Substance</u> <u>Condition</u>

Carbon monoxide Carbon dioxide Oxides of Nitrogen During Combustion During Combustion During Combustion

## 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

## 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidizing agents.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
TOLUENE	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human
				carcin
TOLUENE	108-88-3	OSHA	TWA:200 ppm;CEIL:300 ppm	
ZINC OXIDE	1314-13-2	ACGIH	TWA(respirable fraction):2	
			mg/m3;STEL(respirable	
			fraction):10 mg/m3	
ZINC OXIDE	1314-13-2	OSHA	TWA(as fume):5	
			mg/m3;TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
ACETONE	67-64-1	ACGIH	TWA:250 ppm;STEL:500 ppm	A4: Not class. as human
				carcin
ACETONE	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	
METHYL ETHYL KETONE	78-93-3	ACGIH	TWA:200 ppm;STEL:300 ppm	
METHYL ETHYL KETONE	78-93-3	OSHA	TWA:590 mg/m3(200 ppm)	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment. Provide local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open containers.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

**Indirect Vented Goggles** 

#### Skin/hand protection

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

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

Polymer laminate

### **Respiratory protection**

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

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

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

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade:Brown, solvent odorOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data Available

**Boiling Point** >=134 °F

Flash Point 0.0 °F [Test Method:Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)2.15 %

Flammable Limits(LEL) 2.15 % Flammable Limits(UEL) 13.0 %

Vapor Pressure <=27 psia [@ 131.0000000000 °F] [Details:MITS data]

Vapor DensityNo Data AvailableDensityNo Data Available

Specific Gravity 0.88 [Details:MITS data]

Solubility in WaterNo Data AvailableSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

Viscosity 325 centipoise [@ 73.4 °F] [Details:MITS data]

Average particle sizeNo Data AvailableBulk densityNo Data AvailableHazardous Air PollutantsNo Data AvailableMolecular weightNo Data Available

Volatile Organic Compounds Approximately 28 % [Details:SPECIFIC METHOD: calcd. per

3M1

Percent volatileNo Data AvailableSoftening pointNo Data Available

**VOC Less H2O & Exempt Solvents** Approximately 505 g/l [Details:SPECIFIC METHOD: Calcd.

per 3M]

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

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None known.

## 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Substance
Amine Compounds
Hydrocarbons

## **Condition**

Not Specified Normal Use

Refer to section 5.2 for hazardous decomposition products during combustion.

## **SECTION 11: Toxicological information**

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

#### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation:

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

May cause additional health effects (see below).

#### **Skin Contact:**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### **Ingestion:**

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

May cause additional health effects (see below).

### **Additional Health Effects:**

### Single exposure may cause target organ effects:

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

Prolonged or repeated exposure may cause target organ effects:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Toxicological Data**

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

### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-		No data available; calculated ATE >50 mg/l
	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
ACETONE	Dermal	Rabbit	LD50 > 15,688 mg/kg
ACETONE	Inhalation-	Rat	LC50 76 mg/l
	Vapor (4		
A GRANDO L TRA	hours)	_	
ACETONE	Ingestion	Rat	LD50 5,800 mg/kg
ACRYLONITRILE-BUTADIENE POLYMER	Dermal	Rabbit	LD50 > 15,000 mg/kg
METHYL ETHYL KETONE	Dermal	Rabbit	LD50 > 8,050 mg/kg
ACRYLONITRILE-BUTADIENE POLYMER	Ingestion	Rat	LD50 > 30,000 mg/kg
METHYL ETHYL KETONE	Inhalation-	Rat	LC50 34.5 mg/l
	Vapor (4		
VERNA EXIMA NEGOTE	hours)	D /	1 D50 2 727 //
METHYL ETHYL KETONE	Ingestion	Rat	LD50 2,737 mg/kg
TOLUENE	Dermal	Rat	LD50 12,000 mg/kg
TOLUENE	Inhalation- Vapor (4	Rat	LC50 30 mg/l
	hours)		
TOLUENE	Ingestion	Rat	LD50 5,550 mg/kg
PHENOL-FORMALDEHYDE RESIN	Dermal	Itat	LD50 estimated to be > 5,000 mg/kg
GLYCEROL ESTERS OF ROSIN ACIDS	Dermal	Rabbit	LD50 > 5,000 mg/kg
GLYCEROL ESTERS OF ROSIN ACIDS	Ingestion	Rat	LD50 > 2,000 mg/kg LD50 > 2,000 mg/kg
PHENOL-FORMALDEHYDE RESIN	Ingestion	Rat	LD50 > 2,000 mg/kg LD50 = 5,660 mg/kg
ZINC OXIDE	Dermal	Kat	LD50 5,000 lng/kg  LD50 estimated to be > 5,000 mg/kg
SALICYLIC ACID	Dermal	Rat	LD50 > 2,000 mg/kg
SALICYLIC ACID SALICYLIC ACID		Rat	
ZINC OXIDE	Ingestion Inhalation-	Rat	LD50 891 mg/kg LC50 > 5.7 mg/l
ZINC OAIDE	Dust/Mist	Kat	LC30 ~ 3.7 Hig/1
	(4 hours)		
ZINC OXIDE	Ingestion	Rat	LD50 > 5,000 mg/kg
ANTIOXIDANT	Dermal	Rat	LD50 > 5,000 mg/kg LD50 > 2,000 mg/kg
ANTIOXIDANT	Ingestion	Rat	LD50 > 5,000 mg/kg
ANTIOAIDANI	Ingestion	rat	LD30 ~ 3,000 HIg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
ACETONE	Mouse	Minimal irritation
ACRYLONITRILE-BUTADIENE POLYMER	Professio	No significant irritation
	nal	
	judgeme	

		/1	

	nt	
METHYL ETHYL KETONE	Rabbit	Minimal irritation
TOLUENE	Rabbit	Irritant
GLYCEROL ESTERS OF ROSIN ACIDS	Rabbit	Minimal irritation
SALICYLIC ACID	Rabbit	No significant irritation
ZINC OXIDE	Human	No significant irritation
	and	
	animal	

Serious Eye Damage/Irritation

Name	Species	Value
ACETONE	Rabbit	Severe irritant
ACRYLONITRILE-BUTADIENE POLYMER	Professio	No significant irritation
	nal	
	judgeme	
	nt	
METHYL ETHYL KETONE	Rabbit	Severe irritant
TOLUENE	Rabbit	Moderate irritant
GLYCEROL ESTERS OF ROSIN ACIDS	Rabbit	Mild irritant
SALICYLIC ACID	Rabbit	Corrosive
ZINC OXIDE	Rabbit	Mild irritant

## **Skin Sensitization**

Name	Species	Value
TOLUENE	Guinea	Not classified
	pig	
GLYCEROL ESTERS OF ROSIN ACIDS	Guinea	Not classified
	pig	
PHENOL-FORMALDEHYDE RESIN	Human	Some positive data exist, but the data are not
		sufficient for classification
SALICYLIC ACID	Mouse	Not classified
ZINC OXIDE	Guinea	Not classified
	pig	

## Photosensitization

Name	Species	Value
SALICYLIC ACID	Mouse	Not sensitizing

## **Respiratory Sensitization**

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

**Germ Cell Mutagenicity** 

Name	Route	Value
ACETONE	In vivo	Not mutagenic
ACETONE	In Vitro	Some positive data exist, but the data are not sufficient for classification
METHYL ETHYL KETONE	In Vitro	Not mutagenic
TOLUENE	In Vitro	Not mutagenic
TOLUENE	In vivo	Not mutagenic
GLYCEROL ESTERS OF ROSIN ACIDS	In Vitro	Not mutagenic
SALICYLIC ACID	In Vitro	Not mutagenic
SALICYLIC ACID	In vivo	Not mutagenic
ZINC OXIDE	In Vitro	Some positive data exist, but the data are not sufficient for classification
ZINC OXIDE	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

L	Name	Route	Species	L'	Value
_					•

ACETONE	Not Specified	Multiple animal species	Not carcinogenic
METHYL ETHYL KETONE	Inhalation	Human	Not carcinogenic
TOLUENE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
TOLUENE	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
TOLUENE	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification

## **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ACETONE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,700 mg/kg/day	13 weeks
ACETONE	Inhalation	Not classified for development	Rat	NOAEL 5.2 mg/l	during organogenesi s
METHYL ETHYL KETONE	Inhalation	Not classified for development	Rat	LOAEL 8.8 mg/l	during gestation
TOLUENE	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
TOLUENE	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
TOLUENE	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
TOLUENE	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse
SALICYLIC ACID	Ingestion	Toxic to development	Rat	NOAEL 75 mg/kg/day	during organogenesi s
ZINC OXIDE	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ACETONE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ACETONE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ACETONE	Inhalation	immune system	Not classified	Human	NOAEL 1.19 mg/l	6 hours
ACETONE	Inhalation	liver	Not classified	Guinea pig	NOAEL Not available	
ACETONE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
METHYL ETHYL KETONE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	official classifica tion	NOAEL Not available	
METHYL ETHYL KETONE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
METHYL ETHYL KETONE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
METHYL ETHYL	Ingestion	liver	Not classified	Rat	NOAEL Not	not applicable

KETONE					available	
METHYL ETHYL	Ingestion	kidney and/or	Not classified	Rat	LOAEL	not applicable
KETONE		bladder			1,080 mg/kg	
TOLUENE	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	
		system depression	dizziness		available	
TOLUENE	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	
			data are not sufficient for		available	
			classification			
TOLUENE	Inhalation	immune system	Not classified	Mouse	NOAEL	3 hours
					0.004 mg/l	
TOLUENE	Ingestion	central nervous	May cause drowsiness or	Human	NOAEL Not	poisoning
		system depression	dizziness		available	and/or abuse

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ACETONE	Dermal	eyes	Not classified	Guinea pig	NOAEL Not available	3 weeks
ACETONE	Inhalation	hematopoietic system	Not classified	Human	NOAEL 3 mg/l	6 weeks
ACETONE	Inhalation	immune system	Not classified	Human	NOAEL 1.19 mg/l	6 days
ACETONE	Inhalation	kidney and/or bladder	Not classified	Guinea pig	NOAEL 119 mg/l	not available
ACETONE	Inhalation	heart   liver	Not classified	Rat	NOAEL 45 mg/l	8 weeks
ACETONE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 900 mg/kg/day	13 weeks
ACETONE	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
ACETONE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	13 weeks
ACETONE	Ingestion	liver	Not classified	Mouse	NOAEL 3,896 mg/kg/day	14 days
ACETONE	Ingestion	eyes	Not classified	Rat	NOAEL 3,400 mg/kg/day	13 weeks
ACETONE	Ingestion	respiratory system	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
ACETONE	Ingestion	muscles	Not classified	Rat	NOAEL 2,500 mg/kg	13 weeks
ACETONE	Ingestion	skin   bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
METHYL ETHYL KETONE	Dermal	nervous system	Not classified	Guinea pig	NOAEL Not available	31 weeks
METHYL ETHYL KETONE	Inhalation	liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles	Not classified	Rat	NOAEL 14.7 mg/l	90 days
METHYL ETHYL KETONE	Ingestion	liver	Not classified	Rat	NOAEL Not available	7 days
METHYL ETHYL KETONE	Ingestion	nervous system	Not classified	Rat	NOAEL 173 mg/kg/day	90 days
TOLUENE	Inhalation	auditory system   nervous system   eyes   olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
TOLUENE	Inhalation	respiratory system	Some positive data exist, but the	Rat	LOAEL 2.3	15 months

			data are not sufficient for classification		mg/l	
TOLUENE	Inhalation	heart   liver   kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
TOLUENE	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.1 mg/l	4 weeks
TOLUENE	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
TOLUENE	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
TOLUENE	Inhalation	hematopoietic system   vascular system	Not classified	Human	NOAEL Not available	occupational exposure
TOLUENE	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 11.3 mg/l	15 weeks
TOLUENE	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
TOLUENE	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
TOLUENE	Ingestion	liver   kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
TOLUENE	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days
TOLUENE	Ingestion	endocrine system	Not classified	Mouse	NOAEL 105 mg/kg/day	28 days
TOLUENE	Ingestion	immune system	Not classified	Mouse	NOAEL 105 mg/kg/day	4 weeks
GLYCEROL ESTERS OF ROSIN ACIDS	Ingestion	liver   heart   skin   endocrine system   bone, teeth, nails, and/or hair   blood   bone marrow   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
SALICYLIC ACID	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	3 days
ZINC OXIDE	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
ZINC OXIDE	Ingestion	endocrine system   hematopoietic system   kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months

## **Aspiration Hazard**

Name	Value
TOLUENE	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## **SECTION 12: Ecological information**

## **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material

and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D035 (Methyl ethyl ketone)

## **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

## **SECTION 15: Regulatory information**

#### 15.1. US Federal Regulations

Contact 3M for more information.

## **EPCRA 311/312 Hazard Classifications:**

Dh	vsica	H	70	rde
rn	vsica	1 112	ıza	rus

Flammable (gases, aerosols, liquids, or solids)

## **Health Hazards**

Reproductive toxicity

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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

<u>Ingredient</u>	<u>C.A.S. No</u>	% by Wt		
ZINC OXIDE (ZINC COMPOUNDS)	1314-13-2	1 - 2		
TOLUENE	108-88-3	Trade Secret	10 -	15

#### 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

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

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#### SCOTCHKOTE BRAND ELECTRICAL COATING

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components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

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

## **SECTION 16: Other information**

## **NFPA Hazard Classification**

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

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

 Document Group:
 10-2644-2
 Version Number:
 38.00

 Issue Date:
 05/21/18
 Supercedes Date:
 01/04/18

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### SCS1201

# **SAFETY DATA SHEET**

## 1. Identification

Product identifier: SCS1201

Other means of identification

**Synonyms:** Silicone sealant (adhesive)

Recommended use and restriction on use

Recommended use: Restrictions on use: Not known.

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials LLC

260 Hudson River Road Waterford NY 12188

Contact person : commercial.services@momentive.com

**Telephone** : General information

+1-800-295-2392

**Emergency telephone** 

number

Supplier : CHEMTREC

1-800-424-9300

## 2. Hazard(s) identification

#### **Hazard Classification**

**Health Hazards** 

Skin Corrosion/Irritation Category 2
Toxic to reproduction Category 2

#### **Label Elements**

## **Hazard Symbol:**



Signal Word: Warning

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Hazard Statement: Causes skin irritation.

Suspected of damaging fertility.

Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wash hands thoroughly

after handling.

Response: IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash

with plenty of water. Take off contaminated clothing. Wash contaminated

clothing before reuse. If skin irritation occurs:

Storage: Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%	No data available.

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**Ingestion:** DO NOT induce vomiting. Get medical attention immediately.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration

using a barrier device. If breathing is difficult give oxygen. Get medical

attention.

**Skin Contact:** No data available.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

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

**Symptoms:** Treatment is symptomatic and supportive.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

### 5. Fire-fighting measures

General Fire Hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

Do not use water jet.

Specific hazards arising from

the chemical:

No data available.

### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Take precautionary measures against static discharges. Keep away from

sources of ignition - No smoking.

Special protective equipment

for fire-fighters:

Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Wash hands before eating, drinking, or smoking. Use only in well-ventilated areas. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Keep out of reach of children. Keep container closed.

Methods and material for containment and cleaning up:

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the

protective equipment section.

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#### SCS1201

## 7. Handling and storage

**Precautions for safe handling:** Sensitivity to static discharge is not expected.

Conditions for safe storage,

including any incompatibilities:

Keep away from heat, sparks and open flame. Keep container tightly closed

in a cool, well-ventilated place.

## 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

**Appropriate Engineering** 

**Controls** 

Eye wash facilities and emergency shower must be available when

handling this product.

Individual protection measures, such as personal protective equipment

**General information:** No data available.

**Eye/face protection:** Monogoggles Face shield

**Skin Protection** 

**Hand Protection:** Rubber gloves are recommended.

**Other:** Wear suitable protective clothing and eye/face protection.

**Respiratory Protection:** If exposure limits are exceeded or respiratory irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA

regulations (see 29CFR 1910.134).

**Hygiene measures:** No data available.

### 9. Physical and chemical properties

## **Appearance**

Physical state: solid
Form: Paste
Color: Colorless
Odor: Acetic acid.

Odor threshold: No data available. pH: not applicable

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Melting point/freezing point:No data available.Initial boiling point and boiling range:No data available.Flash Point:> 93.3 °C (estimated)

Evaporation rate: < 1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Vapor pressure: No data available.

Vapor density:not applicableDensity:ca. 1.06 g/cm3Relative density:ca. 1.06

Solubility(ies)

Solubility in water: Insoluble
Solubility (other): Toluene

Partition coefficient (n-octanol/water) Log

Pow

No data available.

Auto-ignition temperature:not applicableDecomposition temperature:No data available.SADT:No data available.Viscosity, dynamic:No data available.Viscosity, kinematic:> 20.5 mm2/s (40 °C)

**VOC:** 23 g/l

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** No data available.

Possibility of hazardous

reactions:

Hazardous polymerisation does not occur.

Conditions to avoid: None known.

**Incompatible Materials:** None known.

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#### SCS1201

**Hazardous Decomposition** 

**Products:** 

Carbon dioxide Acetic acid. Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

## 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 7,307.8 mg/kg

Specified substance(s):

Octamethylcyclotetrasilox LD 50 (Rat): 4,800 mg/kg ane LD 50 (Mouse): 1,700 mg/kg

**Dermal** 

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Octamethylcyclotetrasilox LD 50 (Rat): 2,400 mg/kg

ane

Inhalation

**Product:** Not classified for acute toxicity based on available data.

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#### SCS1201

Specified substance(s):

Octamethylcyclotetrasilox ane LC50 (Rat): 12.1 mg/l LC50 (Rat): 36 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Irritating to

skin. The health hazard evaluation is based on the toxicological properties of

a similar material.

Serious Eye Damage/Eye Irritation

**Product:** OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Slightly

irritating. The health hazard evaluation is based on the toxicological

properties of a similar material.

**Respiratory or Skin Sensitization** 

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

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#### SCS1201

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox

ane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology:

Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

ane

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: This product contains methylpolysiloxanes which can generate

formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above,

in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

,Acetic acid released during curing. No data available.

Specified substance(s):

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#### SCS1201

Octamethylcyclotetrasilox ane

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

# 12. Ecological information

**Ecotoxicity:** 

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

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#### SCS1201

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels

ane (Headspace Test)) Not readily biodegradable.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12.40

ane

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxa N

ne

No data available.

Other adverse effects: No data available.

13. Disposal considerations

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**Disposal instructions:** Disposal should be made in accordance with federal, state and local

regulations.

**Contaminated Packaging:** No data available.

# 14. Transport information

#### DOT

Not regulated.

#### **IMDG**

Not regulated.

## **IATA**

Not regulated.

Special precautions for user: This product is not regarded as dangerous goods according to the

national and international regulations on the transport of

dangerous goods.

# 15. Regulatory information

# **US Federal Regulations**

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

Chemical Identity Reportable quantity

Octamethylcyclotetrasilox De minimis concentration: TSCA Section: 4% One-Time Export Notification

ane only.

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

None present or none present in regulated quantities.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

#### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

# SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

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#### SCS1201

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Octamethylcyclotetrasiloxa 10000 lbs

# SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

# **US State Regulations**

# **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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

# **Chemical Identity**

Dimethylpolysiloxane
SILANE, DICHLORODIMETHYL-, REAKTION PRODUCTS WITH
SILICA, Silane, dichlorodimethyl-, reaction products with silica
Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes,
hydroxy-terminated
Octamethylcyclotetrasiloxane
Methyltriacetoxysilane

# **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

# **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

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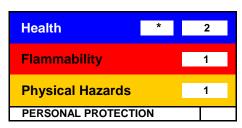
## SCS1201

**Inventory Status:** 

nventory Status.		
Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Mexico INSQ:	Not in compliance with the inventory.	Remarks: None.
Ontario Inventory:	Not in compliance with the inventory.	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.

# 16.Other information, including date of preparation or last revision

## **HMIS Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 01/31/2017

**Revision Date:** No data available.

Version #: 2.0

SDS\_US 13/14



Revision Date: 01/31/2017

#### SCS1201

**Further Information:** No data available.

Disclaimer:

# Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives.

Keep out of the reach of children.

# **Further Information**

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.

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14/14 SDS US

Version No. 13000-18C Issue Date: August 8, 2018 Supersedes Date: May 31, 2018 OSHA HCS-2012 / GHS

# **Section 1: IDENTIFICATION**

**Product Name:** Simple Green® All-Purpose Cleaner

**Additional Names:** 

**Manufacturer's Part Number:** \*Please refer to Section 16

**Recommended Use:** Cleaner & Degreaser for water tolerant surfaces.

**Restrictions on Use:** Do not use on non-rinsable surfaces.

**Company:** Sunshine Makers, Inc. **Telephone:** 800-228-0709 ● 562-795-6000 *Mon – Fri, 8am – 5pm PST* 

15922 Pacific Coast Highway **Fax:** 562-592-3830

Huntington Beach, CA 92649 USA **Email:** info@simplegreen.com

**Emergency Phone:** Chem-Tel 24-Hour Emergency Service: 800-255-3924

# Section 2: HAZARDS IDENTIFICATION

This product has been assessed in accordance to 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200) and has been determined to not be classifiable as hazardous.

OSHA HCS 2012 Label Elements

Signal Word: None Hazard Symbol(s)/Pictogram(s): None required

**Hazard Statements:** None **Precautionary Statements:** None

Hazards Not Otherwise Classified (HNOC): None

Other Information: None Known

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	CAS Number	Percent Range
Water	7732-18-5	> 84.8%*
C9-11 Alcohols Ethoxylated	68439-46-3	< 5%*
Sodium Citrate	68-04-2	< 5%*
Sodium Carbonate	497-19-8	< 1%*
Tetrasodium Glutamate Diacetate	51981-21-6	< 1%*
Citric Acid	77-92-9	< 1%*
Methylchloroisothiazolinone	26172-55-4	< 0.002%*
Methylisothiazolinone	2682-20-4	< 0.001%*
Fragrance	Proprietary Mixture	< 1%*
Liquitint Colorant	Proprietary Mixture	< 1%*

stspecific percentages of composition are being withheld as a trade secret

## Section 4: FIRST-AID MEASURES

Inhalation:Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.Skin Contact:Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.Eye Contact:Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.

**Ingestion:** May cause upset stomach. Drink plenty of water to dilute. See section 11.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

Version No. 13000-18C Issue Date: August 8, 2018 Supersedes Date: May 31, 2018 OSHA HCS-2012 / GHS

# Section 5: FIRE-FIGHTING MEASURES

**Suitable & Unsuitable Extinguishing Media:** Use Dry chemical, CO2, water spray or "alcohol" foam. Avoid high volume jet water.

**Specific Hazards Arising from Chemical:** In event of fire, fire created carbon oxides may be formed.

Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective

clothing.

This product is non-flammable. See Section 9 for Physical Properties.

# Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** For non-emergency and emergency personnel: See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

**Methods and Materials for Containment and Clean Up:** Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

# Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

**Conditions for Safe Storage including Incompatibilities:** Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limit Values:** No components listed with TWA or STEL values under OSHA or ACGIH.

**Appropriate Engineering Controls:** Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.

Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.

General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		Green Liquid		Partition Coefficient: n-octanol/water:		er: Not de	: Not determined	
Odor:		Added sa	assafras odor	Autoignition Temperature:		Non-fla	Non-flammable	
Odor Threshold:		Not dete	rmined	<b>Decomposition Temperatur</b>	e:	42.7°C	(109°F	-)
<b>pH</b> ASTM D-1293:		8.5 – 9.2		Viscosity:		Like wa	iter	
Freezing Point ASTM D-1177:		0-3.33°C	(32-38°F)	Specific Gravity ASTM D-893	l:	1.01 -	1.01 – 1.03	
Boiling Point & Range ASTM D-113	20:	101°C (213.8°F)		VOCs:	*Water & f	ragrance exem <sub>i</sub>	otion in	calculation
Flash Point ASTM D-93:		> 212°F		SCAQMD 304-91 / EPA 24:	0 g/L	0 lb/gal		0%
<b>Evaporation Rate ASTM D-1901:</b>		½ Butyl Acetate @ 25°C		CARB Method 310**:	2.5 g/l	0.021 lb	/gal	0.25%
Flammability (solid, gas):		Not appl	icable	SCAQMD Method 313:	Not tested			
Upper/Lower Flammability or Exp	plosive	re Limits: Not applicable VOC Composit		<b>VOC Composite Partial Pres</b>	sure:	Not determi	ned	
Vapor Pressure ASTM D-323: 0	0.60 PSI	PSI @77°F, 2.05 PSI @100°F		Relative Density ASTM D-4017: 8.42 – 8		3.42 – 8.59 l	b/gal	
Vapor Density:		Not determined		Solubility: 100% in water		er		

Version No. 13000-18C Issue Date: August 8, 2018 Supersedes Date: May 31, 2018 OSHA HCS-2012 / GHS

# Section 10: STABILITY AND REACTIVITY

**Reactivity:** Non-reactive.

Chemical Stability: Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).

Possibility of Hazardous Reactions: None known.

**Conditions to Avoid:** Excessive heat or cold.

**Incompatible Materials:** Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.

Hazardous Decomposition Products: Normal products of combustion - CO, CO2.

## Section 11: TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation - Overexposure may cause headache.

Skin Contact - Not expected to cause irritation, repeated contact may cause dry skin.

Eye Contact - Not expected to cause irritation. Ingestion - May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions. Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions. Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur. Interactive effects: Not known.

#### **Numerical Measures of Toxicity**

Acute Toxicity: Oral LD<sub>50</sub> (rat) > 5 g/kg body weight

Dermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

**Skin Corrosion/Irritation:** Non-irritant per Dermal Irritection® assay modeling. No animal testing performed.

**Eye Damage/Irritation:** Non/Minimal irritant per Ocular Irritection® assay modeling. No animal testing performed.

Germ Cell Mutagenicity:

Carcinogenicity:

Reproductive Toxicity:

STOT-Single Exposure:

STOT-Repeated Exposure:

Aspiration Hazard:

Mixture does not classify under this category.

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of

Classification and Labelling of Chemicals.

Aquatic: Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC<sub>50</sub> & IC<sub>50</sub> ≥100 mg/L. Volume of ingredients used

does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of

Chemicals.

**Terrestrial:** Not tested on finished formulation.

Persistence and Degradability: Readily Biodegradable per OCED 301D, Closed Bottle Test. Reaches 100% biodegradability within

1 year or less.

Bioaccumulative Potential:No data available.Mobility in Soil:No data available.Other Adverse Effects:No data available.

# Section 13: DISPOSAL CONSIDERATIONS

**Unused or Used Liquid:** May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

**Empty Containers:** May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

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# **Section 14: TRANSPORT INFORMATION**

**U.N. Number:** Not applicable

U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI

Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Marine Pollutant - NO

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.

Special precautions which user needs to be aware of/comply with, in connection None known.

with transport or conveyance either within or outside their premises:

U.S. (DOT) / Canadian TDG: Not Regulated for shipping. ICAO/ IATA: Not classified as Hazardous IMO / IDMG: Not classified as Hazardous ADR/RID: Not classified as Hazardous

# **Section 15: REGULATORY INFORMATION**

All components are listed on: TSCA and DSL Inventory.

**SARA Title III:** Sections 311/312 Hazard Categories – Not applicable.

Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.

Sections 302 – Not applicable.

<u>Clean Air Act (CAA):</u> Not applicable <u>Clean Water Act (CWA):</u> Not applicable

<u>State Right To Know Lists:</u> No ingredients listed <u>California Proposition 65:</u> No ingredients listed

**Texas ESL:** 

**Ethoxylated Alcohol** 68439-46-3 60 μg/m<sup>3</sup> long term 600 μg/m<sup>3</sup> short term **Sodium Citrate** 68-04-2 5 μg/m<sup>3</sup> long term 50 μg/m<sup>3</sup> short term Sodium Carbonate 497-19-8 5 μg/m<sup>3</sup> long term 50 μg/m<sup>3</sup> short term Citric Acid 77-92-9 10 μg/m³ long term 100 μg/m<sup>3</sup> short term

This product has been classified as "not classifiable as hazardous" in accordance with Consumer Product Safety Commission (16 CFR Chapter 2), and labelled and packaged accordingly.

## **Section 16: OTHER INFORMATION**

<u>Size</u>	<u>UPC</u>	<u>Size</u>	<u>UPC</u>
2 fl. oz.	043318131035	67.6 fl. oz.	043318130144
4 fl. oz.	043318130014	67.6 fl. oz.	043318000393
16 fl. oz.	043318130021	1 gallon	043318000799
22 fl. oz.	043318130229	1 gallon	043318130052
24 fl. oz.	043318130137	1 gallon	043318004957
32 fl. oz.	043318002557	1 gallon w/ dilution bottle	043318480492
32 fl. oz.	043318130335	140 fl. oz. w/ dilution bottle	043318001468
32 fl. oz.	043318000652	2.5 gallon	043318004889

USA items listed only. Not all items listed. USA items may not be valid for international sale.

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# Section 16: OTHER INFORMATION - continued

NFPA:

Health – None Stability – Stable Flammability – Non-flammable Special - None



**Acronyms** 

NTP National Toxicology Program IARC International Agency for Research on Cancer
OSHA Occupational Safety and Health Administration CPSC Consumer Product Safety Commission
TSCA Toxic Substances Control Act DSL Domestic Substances List

**Prepared / Revised By:** Sunshine Makers, Inc., Regulatory Department.

**This SDS has been revised in the following sections:** Clarification on hazards in section 2, expanded transparency in section 3, revised layout in section 9, 14 & 16, added statement in section 15.

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



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# IRWIN Chalk - Light Violet, Dust-Off

**December 23, 2016** 

**Revision 2** 

#### 1. PRODUCT and COMPANY IDENTIFICATION

Commercial Product Name: IRWIN Chalk - Light Violet, Dust-off

Company: IRWIN Tools
Use of product: Snap line, mark

Emergency contact: 1-800-464-7946 8:00am-5:00pm Monday-Friday

#### 2. HAZARDS IDENTIFICATION

Hazards Identification: GHS Classification and Hazard Statement Carcinogenicity – May cause cancer (lung) Category 1A, H350

Signal Word: DANGER Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves and eye protection.

P308 and P313 If exposed or concerned, get medical advice/attention.

P405 Store locked up.

#### Hazards Not Otherwise Classified or Not Covered by GHS:

Eye: May cause irritation. Chalk dust is discomforting and abrasive to the eyes.

**Skin:** Prolonged skin contact may cause irritation. When the product is used as intended, it is unlikely to cause discomfort.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. Ingestion is considered an unlikely route of entry in commercial or industrial environments.

**Inhalation:** May cause respiratory tract irritation. When the product is used as intended, it is unlikely to cause discomfort.

**Chronic:** Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the project is used as intended, dust levels should not exceed exposure limits. See Sections 8 and 11.



# **Hazard Ratings:**

# **Hazardous Material Identification System (HMIS):**

Health 2\*, Flammability 0, Reactivity 0 \*chronic effects

**National Fire Protection Association (NFPA):** 

Health 2, Flammability 0, Reactivity 0

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value (%)	CAS No.	EC No.
Talc <sup>1</sup>	94 - 95	14807-96-6	238-877-9
Sodium Aluminum Sulfosilicate	4.8 - 5.2	12769-96-9	
Silica (crystalline quartz) <sup>1</sup>	0.1 - 1	14808-60-7	238-878-4

<sup>&</sup>lt;sup>1</sup> Talc may contain crystalline silica at levels between 0.1 and 1.0 % and varies naturally.

Page 1 of 6 Revision: 2

IRWIN Chalk - Light Violet, Dust-off

#### 4. FIRST AID MEASURES

**Inhalation:** Remove from exposure and move to fresh air immediately. Encourage the patient to blow nose to ensure clear breathing passages. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Skin contact:** Wet clothing first to minimize dust generation, then; remove contaminated clothing and shoes. Launder contaminated clothing before wearing again. Wash affected area with water (and soap if available)

Get medical aid in the event of irritation.

**Eye contact:** Do not rub eyes, rubbing may cause abrasions. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Ingestion:** Wash mouth out with plenty of water. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not induce vomiting unless directed to do so by medical personnel. Get medical aid immediately.

Additional advice: Show this safety data sheet to the doctor in attendance

#### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Substance is noncombustible.

**Explosion:** No information found.

**Specific hazards:** Not considered to be a significant fire risk, however; the containers may burn, releasing carbon monoxide, and carbon dioxide.

**Special protective equipment for Firefighters:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate personal protective equipment as specified in Section 8.

**Environmental precautions:** Do not allow this material to be released to the environment without proper governmental permits.

**Methods for cleaning up:** Recover the product whenever possible. Avoid generating dust when sweeping/shoveling up. If required, wet the material with water to prevent creating dust. Pick up and place in a suitable container for reclamation or disposal. Follow applicable OSHA regulations (29 CFR 1910.120)

# 7. HANDLING AND STORAGE

**Storage:** Store this product in a tightly-closed container in a dry, well-ventilated area away from incompatible substances.

**Handling:** Avoid creating, or breathing dust. Practice good personal hygiene, (hand washing, etc.) after using this product. Avoid contact with skin and eyes.

Packaging material: No information found.

Page 2 of 6 Revision: 2

IRWIN Chalk - Light Violet, Dust-off

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure Guidelines

Exposure Limit 8-Hour TWA<sup>1</sup> (mg/m<sup>3</sup>)

Component	CAS No.	% by weight	OSHA PEL	ACGIH TLV	NIOSH REL
Talc <sup>4</sup> Sodium Aluminum Suflosilicate-Pigment Violet C.I.77007 Silica-Crystalline Quartz <sup>4</sup>	14807-96-6 12769-96-9 14808-60-7	94-95 4.8-5.2 0.1-1.0	10 <sup>2,5</sup> ,3.3 <sup>3,5</sup> 10 <sup>3</sup> 0.05 <sup>3</sup>	2 <sup>3</sup> 5 <sup>3</sup> 0.025 <sup>3</sup>	2 <sup>3</sup> 5 0.05 <sup>3</sup>

<sup>&</sup>lt;sup>1</sup> TWA = Time-weighted average

**Exposure and Engineering Controls:** Facilities storing or utilizing this material should have potable water available for washing eyes and skin. Use sufficient general area (or outdoor) ventilation. Local exhaust ventilation should be used if airborne concentrations of dust exceed limits cited in Section 8.

# Personal protective equipment:

Hand protection: Wear protective gloves

**Eye protection:** Wear safety glasses, or chemical goggles in windy conditions or where eye

contact is possible.

**Respiratory protection:** When engineering controls are not sufficient to reduce exposure, seek professional advice prior to respirator selection and use. Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**Hygiene measures:** Wash contaminated clothing before reuse. **Environmental exposure controls:** No information found.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder Color: Light Violet Odor: Odorless.

pH (at 10% solids):

Boiling point/range:

No data available.

No data available.

Melting point/range: Loss of sulfur above 752 °F (400°C).

Flash point:

Evaporation rate:

Vapor density:

Solubility in water:

Explosive properties:

Oxidizing properties:

Vapor pressure:

No data available.

Relative density (H<sub>2</sub>O=1): 2.68

Viscosity: No data available. Partition coefficient (n-octanol/water): No data available.

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<sup>&</sup>lt;sup>2</sup> Total dust.

<sup>&</sup>lt;sup>3</sup> Respirable dust.

<sup>&</sup>lt;sup>4</sup> Talc may contain crystalline silica at levels between 0.1 and 1.0 % and varies naturally.

IRWIN Chalk - Light Violet, Dust-off

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal temperatures and pressures.

**Hazardous decomposition products:** Hydrogen sulfide gas, Sulfur dioxide, Carbon monoxide, and Carbon dioxide.

Materials to avoid: Acids.

**Conditions to avoid:** At temperatures above 752 °F in the presence of air, an exothermic chemical reaction can occur with the evolution of sulfur dioxide gas. Contact with acids liberates hydrogen sulfide gas

Hazardous Polymerization: Does not occur.

#### 11. TOXICOLOGICAL INFORMATION

Note: Toxicological effects described in this section are those that would be expected based on data from the components of this product.

Acute toxicity: No data reported.

**Inhalation:** (Silica, crystalline quartz) Human: LC<sub>Lo</sub>: 300 μg/m³/ intermittent exposure over a 10-year period produced pulmonary system effects.

**Skin contact:** (Talc) Human: 0.3mg administered intermittently for 3 days produced mild skin irritation.

Eye contact: No data reported.

Ingestion: (Sodium aluminum sulfosilicate) No species reported: LD50: >10,000 mg/kg.

**Chronic toxicity/Carcinogenicity:** Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits.

Quartz – crystalline silica:

The International Agency for Research on Cancer (IARC) has designated this substance Group 1, "carcinogenic to humans".

The National Toxicology Program (NTP) has designated this substance: Group K "known to be a human carcinogen"

American Conference of Governmental Industrial Hygienists (ACGIH) has designated this substance A2; suspected human carcinogen. The agent is carcinogenic in experimental animals at dose levels, by route of administration, at sites of histologic type(s) or by mechanism(s) considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

#### 12. ECOLOGICAL INFORMATION

Bioaccumulation: No information found.

Ecotoxicity: Sodium Aluminum Suflosilicate-Pigments are very stable, except under acidic conditions when they will decompose to white siliceous material iwth the evolution of hydrogen gas. These pigments pose no threat to the environment if disposed of responsibly.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues of this product is <u>not</u> a hazardous waste according to U.S. Environmental Protection Agency (EPA) regulations. Disposal by landfill may be acceptable. Consult an expert on the disposal of recovered material for compliance with state, provincial, and/or local regulations.

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IRWIN Chalk - Light Violet, Dust-off

#### 14. TRANSPORT INFORMATION

U.S. DOT: Not regulated

ADR/RID: Not regulated

**IMDG:** Not regulated

ICAO/IATA: Not regulated

#### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

**OSHA:** Ingredients are listed as air contaminants (29 CFR 1910.1000).

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**TSCA** (Toxic Substance Control Act): All components of this product are listed on the TSCA inventory.

CERCLA: Hazardous Substance, (40 CFR 302.4): Not Listed.

Extremely Hazardous Substance (40 CFR 355): Not Listed.

**SARA Hazard Category:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category:

"An immediate (acute) and chronic health hazard."

Chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372: None.

#### **STATE REGULATIONS:**

California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65)

This product contains the following Proposition 65 regulated materials known to the State of California to cause cancer or reproductive harm. The listed typical amounts are a result of their natural presence in the raw materials from which this product is produced.

Silica-crystalline quartz equal to, or less than 1.0 percent

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

#### **16. OTHER INFORMATION**

The contents and format of this SDS are in accordance with the U.S. Hazard Communication Standard 29 CFR 1910.1200; the Canadian CPR, and Workplace Hazardous Materials Information System (WHMIS); and EEC Commission Directive 1999/45/EC, and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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IRWIN Chalk - Light Violet, Dust-off

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of document

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Date Issued: 10/10/2014 SDS No: 11710002\_12304 Date Revised: 03/30/2020

Revision No: 16

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: SUPER GLUE GEL 3.6GM DBL PK (48)

PRODUCT CODE: 11710002\_12304

#### **MANUFACTURER**

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

Pacer Technology 3281 E. Guasti Road, Suite 260

Ontario, CA 91761

Emergency Contact: Chemtrec Emergency Phone: (800) 424-9300 Customer Service: (909) 987-0550

#### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

#### Health:

Eye Irritation, Category 2A Skin Irritation, Category 2 Target Organ Toxicity (Single exposure), Category 3 Skin Sensitization, Category 1

#### Physical:

Flammable Liquids, Category 4

#### **GHS LABEL**

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Exclamation mark

# SIGNAL WORD: WARNING HAZARD STATEMENTS

H227: Combustible liquid.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

# PRECAUTIONARY STATEMENTS

#### Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash skin and hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.



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

#### Response:

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P313: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing.

P370: In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

#### Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Skin contact through clothing may cause burns.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
ETHYL-2-CYANOACRYLATE	85 - 100	7085-85-0
Polymethyl methacrylate	10 - 30	9011-14-7
Hydroquinone	< 0.1	123-31-9

#### 4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Wash with soap and water. Peel or roll skin apart.

**INGESTION:** Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

**INHALATION:** Remove to fresh air. Prolonged or repeated elevated exposure may cause allergic reactions with asthma-like symptoms in sensitive individuals.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes serious eye irritation. Will bond eyelids. Will cause excessive tearing.

**SKIN:** Bonds skin in seconds. May cause skin irritation. May cause sensitization by skin contact. Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin.

**INGESTION:** Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Not a toxic product.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

**ACUTE EFFECTS:** Avoid exposure to vapor concentration in confined areas.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).



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#### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Combustible liquid and vapor. Product polymerized to solid by water. **EXTINGUISHING MEDIA:** Use dry chemical extinguisher or flush with large amounts of water. **HAZARDOUS COMBUSTION PRODUCTS:** Can burn in fire, releasing irritanting vapors

**EXPLOSION HAZARDS:** None known.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH

approved or equivalent) and full protective gear.

FIRE EXPLOSION: None known.

**SENSITIVE TO STATIC DISCHARGE:** None known.

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustible by-products of carbon monoxide/dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Polymerize with water. Solid material may be scraped from surface.

LARGE SPILL: Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

**HANDLING:** Avoid breathing (dust, vapor, mist, gas).

**STORAGE:** Store in a cool place in original container and protect from sunlight.

STORAGE TEMPERATURE: Ideal storage: 41-50F (5-10C)

SHELF LIFE: One year from the date of shipment from Pacer Technology, unless otherwise noted.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	Туре		ppm	mg/m³
	OSHA PEL	TWA	[1]	[1]
	ACGIH TLV	TWA	0.2	1.0
ETHYL-2-CYANOACRYLATE		STEL	[2]	0.3 ppm <sup>[2]</sup>
	Supplier OEL	TWA	0.2 ppm	
Hydroquinone	OSHA PEL	TWA		2

#### Footnotes:

1. NL = Not Listed

2. 1.5 mg/m3



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contaminants to within their TLVs during the use of this product.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Use Nitrile gloves and aprons to prevent contact. Do not use PVC, Nylon or Cotton materials.

RESPIRATORY: Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended: Full-face NIOSH-approved respirator with organic vapor cartridge.

**WORK HYGIENIC PRACTICES:** Avoid direct contact and breathing vapor. Use with adequate ventilation. Wash hands with soap and water after use.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

**ODOR:** Characteristic odor, intensely irritating. **ODOR THRESHOLD:** Odor Threshold = 1 ppm **APPEARANCE:** Transparent, colorless liquid.

pH: Not Established

PERCENT VOLATILE: No data available

FLASH POINT AND METHOD: 80°C (176°F) to 93.4°C (200°F) TAG CC

FLAMMABLE LIMITS: Not Established

**AUTOIGNITION TEMPERATURE:** 485°C (905°F)

VAPOR PRESSURE: < 0.2 mm Hg VAPOR DENSITY: No data available BOILING POINT: > 149°C (300°F) FREEZING POINT: No data available MELTING POINT: No data available

THERMAL DECOMPOSITION: Not Established

**SOLUBILITY IN WATER:** Insoluble

PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available

**EVAPORATION RATE:** No data available

**DENSITY: Not Established** 

SPECIFIC GRAVITY: 1.12 g/mL at 25°C

VISCOSITY #1: 20,000 to 50,000 Centipoise at 22°C (72°F)

MOLECULAR WEIGHT: Not Established

(VOC): < 20.00 g/L Per SCAQMD Method 316B.

#### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** No

CONDITIONS TO AVOID: Avoid temperatures above 176° F (80° C), moisture and alkalines.



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**POSSIBILITY OF HAZARDOUS REACTIONS:** Possible polymerization reaction in the presence of water, amines, alkalis and alcohols.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.

INCOMPATIBLE MATERIALS: Polymerized by water, alcohol, amines, alkaline materials.

**COMMENTS:** REACTIVITY: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

# 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>
ETHYL-2-CYANOACRYLATE	> 5000 mg/kg	> 2000 mg/kg
Hydroquinone	367.3 mg/kg	> 2000 mg/kg

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg

Notes: (Estimated)

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

Notes: (Estimated)

**INHALATION LC**<sub>50</sub>: Vapors may be irritating. Recommended TWA 0.2ppm.

RESPIRATORY OR SKIN SENSITISATION: Possible skin sensitizer.

CARCINOGENICITY

IARC: None
NTP: None
OSHA: None

#### 12. ECOLOGICAL INFORMATION

#### **ENVIRONMENTAL DATA:**

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in a manner consistent with federal, state, and local regulations.

#### 14. TRANSPORT INFORMATION

# DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME: NOT REGULATED** 

AIR (ICAO/IATA)

SHIPPING NAME: ID8000, CONSUMER COMMODITY, 9 (PKG LESS THAN OR EQUAL TO 30 kg G); or UN3334, AVIATION REGULATED LIQUID, N.O.S (ETHYL CYANOACRYLATE), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L, OP WGT LESS THAN OR EQUAL TO 30 kg G) \*

VESSEL (IMO/IMDG)



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**SHIPPING NAME: NOT REGULATED** 

**COMMENTS:** \* This product may be shipped as EXCEPTED QUANTITIES OF CLASS 9, UN3334 (IP VOL LESS THAN OR EQUAL TO 0.03 L, OP VOL LESS THAN OR EQUAL TO 1.0 L)

The transport information provided in this section only applies to the material formulation/itself, and is not specific to any package/configuration. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organizations to follow all applicable laws, regulations, and rules relating to the transportation of the material.

#### 15. REGULATORY INFORMATION

#### **UNITED STATES**

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HEALTH HAZARDS:** Immediate Health, Delayed Health, Fire, Reactive.

313 REPORTABLE INGREDIENTS: None above reporting de minimus.

302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** None above reporting de minimus.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
ETHYL-2-CYANOACRYLATE	7085-85-0
Polymethyl methacrylate	9011-14-7
Hydroquinone	123-31-9

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

# **CLEAN AIR ACT**

40 CFR PART 68--- RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not applicable.

**CALIFORNIA PROPOSITION 65:** Consumer sizes of this product do not require a California Proposition 65 Warning based on potential exposure in normal consumer use. The following information applies to industrial use: **WARNING:** This product can expose you to chemicals including Sulfur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

#### 16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Affairs Department

PREPARED BY: Pacer Technology Regulatory Affairs Department Date Revised: 03/30/2020

REVISION SUMMARY: This SDS replaces the 08/15/2018 SDS. Revised: Section 1: APPROVED BY, PREPARED BY,

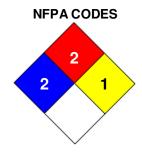
PRODUCT CODE.



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# HMIS RATING HEALTH 2 FLAMMABILITY 2 PHYSICAL HAZARD 1 PERSONAL PROTECTION



MANUFACTURER DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, Pacer Technology does not assume any liability 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 which exist.







# Safety Data Sheet California CARB Compliant

## 1 - Identification

**Product Name: WD-40 Multi-Use Product Aerosol** 

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

Corrosion

Restrictions on Use: None identified

SDS Date Of Preparation: March 5, 2019

Manufacturer: WD-40 Company

Address: 9715 Businesspark Avenue

San Diego, California, USA

92131

Telephone:

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

Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)

#### 2 - Hazards Identification

#### Hazcom 2012/GHS Classification:

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

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

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

### **Label Elements:**



#### DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

#### Prevention

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

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

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

Avoid breathing vapors or mists.

Use only outdoors or in a well-ventilated area.

#### Response

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

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

#### Storage

Store locked up.

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

#### **Disposal**

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

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	US Hazcom 2012/ GHS Classification
LVP Aliphatic Hydrocarbon	64742-47-8	45-50%	Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<35%	Not Hazardous
Aliphatic Hydrocarbon	64742-47-8	<25%	Flammable Liquid Category 3 Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Carbon Dioxide	124-38-9	2-3%	Simple Asphyxiant Gas Under Pressure, Compressed Gas

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

#### 4 - First Aid Measures

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

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

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

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

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

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

#### 5 - Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons. Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

#### 6 - Accidental Release Measures

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

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

#### 7 - Handling and Storage

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

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

8 - Exposure Controls/Personal Protection

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

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

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

**Personal Protection:** 

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

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

where skin contact is likely.

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

#### For Bulk Processing or Workplace Use the Following Controls are Recommended

**Appropriate Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:** 

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

Skin Protection: Wear chemical resistant gloves.

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

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

9 - Physical and Chemical Properties

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

Evaporation Rate:	Not established	Decomposition	Not established
		Temperature:	
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	24.1%	Pour Point:	-63°C (-81.4°F ) ASTM
	MIR=0.43gO3/gVOC		D-97 `

#### 10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

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

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

containers.

**Incompatible Materials:** Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

## 11 – Toxicological Information

#### **Symptoms of Overexposure:**

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

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

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

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

Chronic Effects: None expected.

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

NTP, ACGIH or OSHA.

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

**Numerical Measures of Toxicity:** 

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

#### 12 - Ecological Information

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

Persistence and Degradability: Components are readily biodegradable.

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

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

# 13 - Disposal Considerations

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

# 14 – Transportation Information

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

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

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

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

# 15 - Regulatory Information

## **U.S. Federal Regulations:**

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

#### **SARA TITLE III:**

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

Section 302 Extremely Hazardous Substances (TPQ): None

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

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

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

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

#### 16 - Other Information

# **HMIS Hazard Rating:**

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

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

Revision Summary: Section 9 update VOC data

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

Reviewed by: I. Kowalski Regulatory Affairs Dept.

1012200/No.0084704







# **Safety Data Sheet**

#### 1 - Identification

Trade Name: WD-40 Specialist High Performance

White Lithium Grease

Product Use: Cleaner, Lubricant

Restrictions on Use: None identified

SDS Date Of Preparation: January 24, 2020

**Canadian Office:** 

WD-40 Products [Canada] Ltd.

P.O. Box 220

Toronto, Ontario M9C 4V3

Information Phone #: (416) 622-9881

Emergency Phone # 24 hr: Canutec: (613) 996-

3666 -

Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or

accident involving chemicals

#### 2 - Hazards Identification

#### WHMIS 2015/GHS Classification:

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

**Aspiration Toxicity Category 1** 

Note: This product is a consumer product and is labeled in accordance with the Consumer Chemicals and Containers Regulations (CCCR) which take precedence over WHMIS 2015 labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

#### **Label Elements:**



#### DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

#### **Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Do not pierce or burn, even after use.

#### Response

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

# **Storage**

Store locked up.

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

# Disposal

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

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	WHMIS 2015/ GHS Classification
Petroleum Solvent (LVP)	64742-47-8 64742-88-7	45-65%	Aspiration Toxicity Category 1

Liquefied Petroleum Gas (n-	68476-86-8	30-40%	Flammable Gas Category 1
Butane, Isobutane)			Gas Under Pressure, Compressed
			Gas
Petroleum Distillates,	64742-54-7	<10%	Not Hazardous
Hydrotreated Heavy Paraffin	64742-65-0		
Calcium Sulfonate	Proprietary	<5%	Not Hazardous
Titanium Dioxide	13463-67-7	<1%	Carcinogen Category 2*

<sup>\*</sup> Carcinogen classification applies to respirable forms only. Not applicable to this product.

#### 4 - First Aid Measures

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

Eye Contact: Flush thoroughly with water. Get medical attention if irritation persists.

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

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

**Signs and Symptoms of Exposure:** Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage. May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Prolonged skin contact may cause drying of the skin.

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

#### 5 - Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces. Combustion will produce oxides of carbon, smoke, and unburned hydrocarbons.

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

#### 6 - Accidental Release Measures

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

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

#### 7 - Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes and skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. **Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 - Exposure Controls/Personal Protection

Chemical	Occupational Exposure limits		
Petroleum Solvent (LVP)	1200 mg/m3 TWA (manufacturer recommended)		
n-Butane	1000 ppm STEL ACGIH TLV		
	800 ppm TWA Canada- Québec		
	1000 ppm STEL Canada- Ontario		
	1000 ppm STEL British Columbia		
Isobutane	1000 ppm STEL ACGIH TLV (as Butane, all isomers)		
	800 ppm TWA Canada- Ontario (as Aliphatic Hydrocarbon gases [C1-C4])		
	1000 ppm STEL British Columbia		
Petroleum Distillates,	5 mg/m3 (inhalable) TWA ACGIH TLV (as mineral oil)		
Hydrotreated Heavy Paraffin	5 mg/m3 TWA, 10 mg/m3 STEL Canada-Ontario (as oil mist, mineral)		
	5 mg/m3 TWA, 10 mg/m3 STEL Canada-Québec (as oil mist, mineral)		
	1 mg/m3 TWA British Columbia (as Oil mist-mineral, severely refined)		
Calcium Sulfonate	None Established		
Titanium Dioxide	10 mg/m3 TWA ACGIH TLV		
	10 mg/m3 TWA Canada-Ontario		
	10 mg/m3 TWA Canada-Québec		
	10 mg/m3 TWA British Columbia		

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

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

**Personal Protection:** 

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

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

where skin contact is likely.

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

## For Bulk Processing or Workplace Use the Following Controls are Recommended

**Appropriate Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:** 

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

Skin Protection: Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant

type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

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

9 - Physical and Chemical Properties

Appearance:	Colorless liquid	Flammable Limits:	LEL: 0.6% UEL: 5% (Petroleum Solvent)
Odor:	Petroleum odor	Vapor Pressure:	0.009 kPa (0.07 mm Hg) at 20 C
Odor Threshold:	Not established	Vapor Density:	5.3 (Petroleum Solvent)
pH:	Not Applicable	Relative Density:	0.87
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	221-271°C (430-520°F) (Petroleum Solvent)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	<-30°C (-22°F) (CC ASTM D3828)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	40%	Pour Point:	Not established

#### 10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

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

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

containers.

Incompatible Materials: Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and unburned

hydrocarbons.

# 11 – Toxicological Information

## **Symptoms of Overexposure:**

**Inhalation:** Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** May cause skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce defatting and dermatitis.

**Eye Contact:** Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing. **Ingestion:** Swallowing is an unlikely route of exposure for an aerosol product. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

**Carcinogen Status:** This product contains Titanium dioxide which is listed by IARC as a suspected carcinogen (2B). Titanium dioxide only presents a risk of cancer by inhalation of very fine dust. In this product, the titanium dioxide is incorporated into the grease and is not present as a respirable dust. There is no exposure to respirable titanium dioxide dust in the normal use of this product. None of the other components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

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

# **Numerical Measures of Toxicity:**

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

# 12 - Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available.

Persistence and Degradability: No data available Bioaccumulative Potential: No data available

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

# 13 - Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

## 14 – Transportation Information

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

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

Canadian TDG Classification: Limited Quantity

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

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

# 15 - Regulatory Information

**National Pollutant Release Inventory (NPRI):** This product contains the following chemicals that are listed on the NPRI Substance List: Petroleum Solvent (LVP) (64742-47-8, 64742-88-7) 45-65%, Liquefied Petroleum Gas (n-Butane, Isobutane) 30-40%

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

# 16 - Other Information

**HMIS Hazard Rating:** 

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

Revision Date: January 24, 2020 Supersedes: November 18, 2016

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

Reviewed by: I. Kowalski Regulatory Affairs Department

3025100/No.0052003

#### Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



# WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

Version 1.3 Print Date 03/09/2018

Revision Date 01/23/2018 SDS Number 350000014153

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS

CLEANER

Recommended use : Hard Surface 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

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling

**Precautionary statements** 

Other hazards : None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910.1200

according to Hazard Communication Standard; 29 CFR 1910.1200



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For additional information on product ingredients, see 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 : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

Inhalation : No adverse effects expected when used as directed.

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

: Container may melt and leak in heat of fire.

**Further information** : 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.

according to Hazard Communication Standard; 29 CFR 1910.1200



### WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

Print Date 03/09/2018 Version 1.3

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### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Wash thoroughly after handling.

**Environmental** precautions

Outside of normal use, avoid release to the environment.

Methods and materials for containment and

cleaning up

Dike large spills.

Clean residue from spill site.

### 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** 

areas and containers

**Requirements for storage**: Keep container closed when not in use.

Other data Stable under normal conditions.

### 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.

according to Hazard Communication Standard; 29 CFR 1910.1200



### WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

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Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color blue

Odour floral

**Odour Threshold** : Test not applicable for this product type

pН : 10.7

at (25 C)

Melting point/freezing point : 0 C

Initial boiling point and

boiling range

: 100 C

Flash point : does not flash

**Evaporation rate** : Test not applicable for this product type

Flammability (solid, gas) : Does not sustain combustion.

explosive limits

**Upper/lower flammability or** : Test not applicable for this product type

Vapour pressure : Calculated31.7 hPa

Vapour density : Test not applicable for this product type

according to Hazard Communication Standard; 29 CFR 1910.1200



### WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

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Relative density : 1.00 g/cm3 at 25 C

Solubility(ies) : soluble

Partition coefficient: n-

octanol/water

: Test not applicable for this product type

**Auto-ignition temperature** : Test not applicable for this product type

**Decomposition temperature** : Heating can release hazardous gases.

Viscosity, dynamic : similar to water

Viscosity, kinematic : similar to water

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds

Total VOC (wt. %)\*

: 0.2 % - additional exemptions may apply

\*as defined by US Federal and State Consumer Product

Regulations

Other information : None identified

### 10. STABILITY AND REACTIVITY

**Reactivity**: No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: If accidental mixing occurs and toxic gas is formed, exit area

immediately. Do not return until well ventilated.

according to Hazard Communication Standard; 29 CFR 1910.1200



### WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

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Conditions to avoid : Direct sources of heat.

**Incompatible materials** : Do not mix with bleach or any other household cleaners.

Strong bases

**Hazardous decomposition** 

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

### 11. TOXICOLOGICAL INFORMATION

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	-

according to Hazard Communication Standard; 29 CFR 1910.1200



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Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
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.

No environmental data required.

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.

### Land transport

Not classified as dangerous in the meaning of transport regulations.

according to Hazard Communication Standard; 29 CFR 1910.1200



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### Sea transport

Not classified as dangerous in the meaning of transport regulations.

### Air transport

Not classified as dangerous in the meaning of transport regulations.

### 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 does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

State Right To Know

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				
Ammonium Hydroxide 1336-21-6				

according to Hazard Communication Standard; 29 CFR 1910.1200



### WINDEX® COMMERCIAL LINE™ ORIGINAL GLASS CLEANER

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### **16. OTHER INFORMATION**

### **HMIS Ratings**

Tilviio italiilys		
Health	1	
Flammability	0	
Reactivity	0	

### NFPA Ratings

- III I A Ruings		
Health	1	
Fire	0	
Reactivity	0	
Special	-	

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)



### SAFETY DATA SHEET

### 1. Identification

**Product identifier** Wire Pulling Lubricant

Other means of identification

SDS number SDS-00038

**Product code** 15-231, 15-236, 15-111, 15-233, 15-236-E

Recommended use Wire Pulling Lubricant

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ABB Installation Products Inc.

**Address** 860 Ridge Lake Blvd.

Memphis, TN 38120

US

901-252-5000 ext.8324 Telephone

E-mail Not available.

CHEMTREC - 24 HOURS: +1 703-741-5970 **Emergency phone number** 

2. Hazard(s) identification

Physical hazards Not classified.

Serious eye damage/eye irritation **Health hazards** Category 1

> Sensitization, skin Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word

**Hazard statement** Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life.

**Precautionary statement** 

Prevention Wear protective gloves and eye/face protection. Contaminated work clothing must not be allowed

out of the workplace. Avoid breathing mist/vapor. Avoid release to the environment.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Response

> Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center/doctor.

Store away from incompatible materials. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

**Mixtures** 

Wire Pulling Lubricant SDS US 931575 Version: D

Revision date: 05-November-2018

Chemical name	CAS number	%	
Sodium dodecyl sulfate	151-21-3	< 10	
Carbopol	9003-01-4	< 10	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	< 10	
Sodium Benzoate	532-32-1	< 10	
Triethanolamine	102-71-6	< 10	
Other components below reportable levels		50 - < 61	

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

### 4. First-aid measures

**Eve contact** 

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

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

reaction. Dermatitis. Rash.

Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin

symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

General information

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Specific methods

General fire hazards

Foam. Dry powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Will burn if involved in a fire.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. 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.

Methods and materials for containment and cleaning up Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Wire Pulling Lubricant SDS US 931575 Version: D

### 7. Handling and storage

Precautions for safe handling Persons susceptible to allergic reactions should not handle this product. Do not get in eyes. Avoid

contact with skin and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	Form	
Distillates (petroleum),	PEL	5 mg/m3	Mist.	
hydrotreated heavy				
paraffinia (CAC GAZAO EA Z)				

paraffinic (CAS 64742-54-7)

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.	_
Triethanolamine (CAS	TWA	5 mg/m3		

102-71-6)

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

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Viscous paste. **Form** Color Yellow. Odor Slight lemon. **Odor threshold** Not available. 8.5 - 8.6Ηg

Wire Pulling Lubricant SDS US

931575 Version: D Revision date: 05-November-2018

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 400 ° F Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available.

0.974 Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 

55000 - 65000 SUS @ 75 °F **Viscosity** 

Other information

Density 8.11 lbs/gal **Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with Conditions to avoid

incompatible materials.

Strong oxidizing agents. Calcium hypochlorite. Chlorine. Peroxides. Phenols. Sodium hypochlorite. Incompatible materials

Concentrated oxygen Nitrites.

Hazardous decomposition

products

Nitrosamines.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact May cause skin irritation. May cause an allergic skin reaction.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye damage. Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic

skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Wire Pulling Lubricant SDS US 931575 Version: D

**Species Test Results** Components

Carbopol (CAS 9003-01-4)

Acute

**Dermal** 

LD50 Rabbit > 3000 mg/kg

Oral

LD50 > 10000 mg/kg Rat

Sodium dodecyl sulfate (CAS 151-21-3)

**Acute** 

Oral

LD50 Rat 1200 mg/kg

Triethanolamine (CAS 102-71-6)

**Acute** 

**Dermal** 

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Rat 8 g/kg

Skin corrosion/irritation May cause skin irritation. Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbopol (CAS 9003-01-4) 3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans.

Triethanolamine (CAS 102-71-6)

NTP Report on Carcinogens

Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged or repeated contact may dry skin and cause dermatitis.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

Components **Species Test Results** 

Sodium dodecyl sulfate (CAS 151-21-3)

**Aquatic** 

Acute

EC50 Algae Scenedesmus subspicatus 36.5 mg/l, 72 Hours EC50 Crustacea Ceriodaphnia dubia 5.55 mg/l, 48 Hours

SDS US Wire Pulling Lubricant

931575 Version: D Revision date: 05-November-2018 Components Species Test Results

Fish LC50 Lepomis macrochirus 4.5 mg/l, 96 Hours

Triethanolamine (CAS 102-71-6)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 2038 mg/l, 24 hours

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

Sodium dodecyl sulfate (CAS 151-21-3) 1.6 Triethanolamine (CAS 102-71-6) -1

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions)

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Wire Pulling Lubricant SDS US

931575 Version: D Revision date: 05-November-2018 Issue date: 16 December-2015

Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization

### 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

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

### **US state regulations**

### **US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

### **US. Rhode Island RTK**

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### 16. Other information, including date of preparation or last revision

Issue date16-December-2015Revision date05-November-2018

Version D

Wire Pulling Lubricant SDS US

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**HMIS®** ratings

Health: 2 Flammability: 1 Physical hazard: 0

**NFPA** ratings



Disclaimer

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Wire Pulling Lubricant SDS US



### SAFETY DATA SHEET

### 1. Identification

**Product identifier** Wire Pulling Lubricant

Other means of identification

SDS number SDS-00038

**Product code** 15-231, 15-236, 15-111, 15-233, 15-236-E

Recommended use Wire Pulling Lubricant

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ABB Installation Products Inc.

**Address** 860 Ridge Lake Blvd.

Memphis, TN 38120

US

901-252-5000 ext.8324 Telephone

E-mail Not available.

CHEMTREC - 24 HOURS: +1 703-741-5970 **Emergency phone number** 

2. Hazard(s) identification

Physical hazards Not classified.

Serious eye damage/eye irritation **Health hazards** Category 1

> Sensitization, skin Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word

**Hazard statement** Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life.

**Precautionary statement** 

Prevention Wear protective gloves and eye/face protection. Contaminated work clothing must not be allowed

out of the workplace. Avoid breathing mist/vapor. Avoid release to the environment.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Response

> Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center/doctor.

Store away from incompatible materials. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

**Mixtures** 

Wire Pulling Lubricant SDS US 931575 Version: D

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Chemical name	CAS number	%
Sodium dodecyl sulfate	151-21-3	< 10
Carbopol	9003-01-4	< 10
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	< 10
Sodium Benzoate	532-32-1	< 10
Triethanolamine	102-71-6	< 10
Other components below reportable levels		50 - < 61

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

### 4. First-aid measures

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

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if **Eve contact** 

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash. Provide general supportive measures and treat symptomatically. Keep victim under observation.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Foam. Dry powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Will burn if involved in a fire.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. 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.

Methods and materials for containment and cleaning up Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Wire Pulling Lubricant SDS US 2/8 931575 Version: D

### 7. Handling and storage

Precautions for safe handling

Persons susceptible to allergic reactions should not handle this product. Do not get in eyes. Avoid

contact with skin and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

<b>US. OSHA Table Z-1 Limits for Air Contaminants</b>	(29	CFR	1910.10	00)

Components	Туре	Value	Form	
Distillates (petroleum),	PEL	5 mg/m3	Mist.	
hydrotreated heavy				

paraffinic (CAS 64742-54-7)

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Triethanolamine (CAS	TWA	5 mg/m3	

102-71-6)

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

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Appropriate engineering

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

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

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA).

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Viscous paste.
Color Yellow.
Odor Slight lemon.
Odor threshold Not available.
pH 8.5 - 8.6

Wire Pulling Lubricant SDS US

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Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 400 ° F Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Not available.

(%)

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. 0.974

Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 

55000 - 65000 SUS @ 75 °F **Viscosity** 

Other information

Density 8.11 lbs/gal **Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with Conditions to avoid

incompatible materials.

Strong oxidizing agents. Calcium hypochlorite. Chlorine. Peroxides. Phenols. Sodium hypochlorite. Incompatible materials

Concentrated oxygen Nitrites.

Hazardous decomposition

products

Nitrosamines.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact May cause skin irritation. May cause an allergic skin reaction.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye damage. Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic

skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Wire Pulling Lubricant SDS US 931575 Version: D

Components Species Test Results

Carbopol (CAS 9003-01-4)

<u>Acute</u>

Dermal

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Sodium dodecyl sulfate (CAS 151-21-3)

**Acute** 

Oral

LD50 Rat 1200 mg/kg

Triethanolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Rat 8 g/kg

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

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

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbopol (CAS 9003-01-4)

3 Not classifiable as to carcinogenicity to humans.

Triethanolamine (CAS 102-71-6)

3 Not classifiable as to carcinogenicity to humans.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged or repeated contact may dry skin and cause dermatitis.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

Components Species Test Results
Sodium dodecyl sulfate (CAS 151-21-3)

Aquatic

101160

Acute

Algae EC50 Scenedesmus subspicatus 36.5 mg/l, 72 Hours
Crustacea EC50 Ceriodaphnia dubia 5.55 mg/l, 48 Hours

Wire Pulling Lubricant SDS US

931575 Version: D Revision date: 05-November-2018 Issue date; 16-December-20

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

Fish LC50 Lepomis macrochirus 4.5 mg/l, 96 Hours

Triethanolamine (CAS 102-71-6)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 2038 mg/l, 24 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Sodium dodecyl sulfate (CAS 151-21-3) 1.6 Triethanolamine (CAS 102-71-6) -1

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not established.

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 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Wire Pulling Lubricant SDS US

931575 Version: D Revision date: 05-November-2018 Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization

### 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

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

### **US state regulations**

### **US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

### **US. Rhode Island RTK**

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Triethanolamine (CAS 102-71-6)

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### 16. Other information, including date of preparation or last revision

Issue date16-December-2015Revision date05-November-2018

Version D

Wire Pulling Lubricant SDS US

931575 Version: D Revision date: 05-November-2018 Issue date: 16-December-2

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**HMIS®** ratings

Health: 2 Flammability: 1 Physical hazard: 0

**NFPA** ratings



Disclaimer

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Wire Pulling Lubricant SDS US

### **SAFETY DATA SHEET**



1. Identification

Product identifier WOOD AND WOOD PRODUCTS

Product list Lumber Products:- Solid sawn wood, Dimension Lumber, Lumber, Studs

Plywood:- Plytanium® plywood, DryPly® plywood, Plytanium® siding, Ply-Bead® panels,

PlyFrame® panels, PlyForm panels

Oriented Strand Board (OSB):- Blue Ribbon® OSB (Mill #451,500), Thermostat® radiant barrier sheathing (Mill #500), FiberStrong® HD panels (Mill #451, 500), Camouflage panels featuring

Mossy Oak® brand (Mill #500), Realtree® camouflage panels (Mill #500)

Other means of identification

SDS number GP-31A

Recommended use Building Materials - Structural, Industrial or Decorative

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Georgia-Pacific Wood Products LLC

Address 133 Peachtree Street, NE

Atlanta, GA 30303

**Telephone** Technical Information 800.284.5347

MSDS Request 404.652.5119

**E-mail** Not available.

**Emergency phone number** Chemtrec - Emergency 800.424.9300

2. Hazard(s) identification

Emergency overview This product is not hazardous in the form in which it is shipped by the manufacturer but may

become hazardous by downstream activities (e.g., grinding, sanding, cutting, pulverizing) that

reduce its particle size. Those hazards are described below.

Physical hazards Not classified.

Health hazards Eye irritation Category 2B

Sensitization, respiratory

Sensitization, skin

Category 1

Carcinogenicity

Category 1A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms

or breathing difficulties if inhaled. May cause respiratory irritation. May cause cancer. If small particles of wood dust are generated during further processing, handling or by other means, may

form combustible dust concentrations in air.

Material name: WOOD AND WOOD PRODUCTS
4424 Version #: 07 Revision date: February-13-2019 Issue date: May 24-2015

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Prevent dust accumulation and airborne dispersion of dust to minimize flash fire and explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the

SDS).

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

Hazard(s) not otherwise classified (HNOC)

**Storage** 

None known.

Supplemental information None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
WOOD/WOOD DUST		Not Assigned	90 - 100

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

Composition comments Some lumber products may be sprayed with sap stain control coatings. The lumber is air or kiln

dried. No chemical residue is left on the surface of the board. Wood products are bonded with phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate resin. Some wood

products may be coated with finishes, sealants and or overlays.

### 4. First-aid measures

**Inhalation** Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If

persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.

Skin contact If irritation develops, wash with soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

Ingestion If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce

vomiting

Most important

symptoms/effects, acute and

delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash. May cause respiratory irritation. Difficulty in

breathing.

Indication of immediate medical attention and special

treatment needed
General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash

contaminated clothing before reuse.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the

formation of a potentially explosible dust-air mixture.

Unsuitable extinguishing

media

Heavy water (or jet) stream may cause dust to become airborne and create a flash fire hazard or an explosive atmosphere.

Specific hazards arising from

the chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases

hazardous to health may be formed.

Material name: WOOD AND WOOD PRODUCTS

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Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

To avoid dust clouds, responders should use the extinguisher from as far away as possible and apply the extinguishing agent as gently as possible. The main considerations with hose stream operation are to avoid creating combustible dust clouds or introducing more air. In particular, the use of solid streams and direct dust pile hits can disperse dust into the air creating a potential flash fire hazard. The best way to apply water is in a medium to wide-pattern, as gently as possible. Responders should use a low nozzle pressure and loft the stream onto the burning material from as far away as the stream will reach.

General fire hazards

May form combustible dust concentrations in air.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Vacuum dust with dust ignition proof vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods (e.g. water mist) and prevent scattering by moistening with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use personal protective equipment as required. Ensure dust collection systems used for conveying combustible wood dusts are protected with and equipped with fire and explosion prevention and protection equipment. See NFPA 664 and NFPA 69 for further requirements, information and guidance.

Conditions for safe storage, including any incompatibilities Store flat, supported and protected from direct contact with the ground. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool dry place.

### 8. Exposure controls/personal protection

Occupational exposure limits

**US. OSHA Table Z-3 (29 CFR 1910.1000)** 

Components	Туре	Value	Form
WOOD/WOOD DUST	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
ACGIH			
Components	Туре	Value	Form
WOOD/WOOD DUST	TWA	1 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	Form
WOOD/WOOD DUST	TWA	1 mg/m3	Dust.

**Biological limit values Exposure guidelines** 

No biological exposure limits noted for the ingredient(s).

Georgia-Pacific Wood Products LLC voluntarily elects to adhere to exposure limits contained in OSHA's 1989 Air Contaminants Standard although certain limits were vacated in 1992. The present OSHA exposure limits governing wood dust is 15 mg/m3 (Total Dust) and 5 mg/m3

(Respirable Fraction).

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controls

Due to the fire and explosive potential of dust when suspended in air, precautions should be taken when material is used in any operation which may generate dust. Local exhaust, general dilution ventilation in enclosed areas, and explosion proof equipment is recommended. Use wet methods,

if appropriate, to reduce airborne dust concentrations.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses or goggles are recommended when using this product. Ensure compliance with

OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Impervious protective clothing and gloves recommended to prevent drying or irritation of skin.

Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR

1910.151 (c)).

**Respiratory protection** A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or

when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection

(Z88.2).

Thermal hazards Wear appropriate thermal protective clothing (i.e. flame resistant clothing and head/face

protection), when potential flash fire or explosion hazards are present.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work

clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance Rigid boards or panels

Physical stateSolid.FormSolid woodColorVariousOdorNot available.

Odor threshold Not available.

pH Not applicable

Melting point/freezing point Not applicable

Initial boiling point and boiling

range

Not applicable

Flash point Not applicable
Evaporation rate Not applicable
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower > 40 g/m3 f

(%)

> 40 g/m3 for wood dust. Note: The LEL is equivalent to the Minimum Explosive Concentration

(MEC) for the combustible dust. The MEC will vary with particle size of the wood dust. Recommend MEC testing for specific wood dust particle sizes generated or handled.

Flammability limit - upper

(%)

Not available

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure Not applicable

Vapor density Not applicable

Relative density Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not applicable

(n-octanol/water)

**Auto-ignition temperature** 399.92 - 500 °F (204.4 - 260 °C) for wood

Variable

Material name: WOOD AND WOOD PRODUCTS

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**Decomposition temperature** Not available **Viscosity** Not available.

Other information

Bulk densityNot applicableExplosive propertiesNot explosive.Flash point classCombustibleOxidizing propertiesNot oxidizing.

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Dust accumulation, dispersion of dust in air, high temperatures, open flame, sparks, or other

sources of ignition.

Incompatible materials Strong acids, alkalies, oxidizing agents and drying oils.

Hazardous decomposition

products

Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide,

aldehydes, or organic acids.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

**Skin contact** May cause an allergic skin reaction.

**Eye contact** Causes eye irritation.

Ingestion Not applicable under normal conditions of use. May result in obstruction or temporary irritation of

the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Difficulty in breathing. May cause an allergic skin

reaction. Dermatitis. Rash.

### Information on toxicological effects

Acute toxicity Not available.

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

Serious eye damage/eye

irritation

Causes eye irritation.

### Respiratory or skin sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity Wood dust generated from sawing, sanding or machining this product may cause nasal dryness,

irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC), and National Toxicology Program (NTP) classifies wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems,

stomach, colon, or rectum with exposure to wood dust.

### IARC Monographs. Overall Evaluation of Carcinogenicity

WOOD/WOOD DUST (CAS Not Assigned) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

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

WOOD/WOOD DUST (CAS Not Assigned) Known To Be Human Carcinogen.

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

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Material name: WOOD AND WOOD PRODUCTS

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SDS US

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

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

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.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** 

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal,

whether the product meets RCRA criteria for hazardous waste.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty packaging/container can be disposed in accordance with all applicable regulations.

### 14. Transport information

DOT

Not regulated as dangerous goods.

ΙΔΤΔ

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not applicable.

### 15. Regulatory information

**US** federal regulations

Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **Toxic Substances Control Act (TSCA)**

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

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Material name: WOOD AND WOOD PRODUCTS

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Classified hazard categories

Combustible dust

Serious eye damage or eye irritation Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

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.

Clean Water Act (CWA) Section 112(r) (40 CFR

Hazardous substance

68.130)

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

**California Proposition 65** 

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance

known to the State of California to cause cancer. Avoid inhaling wood dust, or use a dust mask or

other safeguards for personal protection. For more information go to:

www.P65Warnings.ca.gov/wood

California Proposition 65 - CRT: Listed date/Carcinogenic substance

WOOD/WOOD DUST (CAS Not Assigned) Listed: December 18, 2009

International Inventories

On inventory (yes/no)\* Country(s) or region Inventory name

Canada Domestic Substances List (DSL) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

May-21-2015 Issue date **Revision date** February-13-2019

Version # 07

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the **Further information** 

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Health: 2\* **HMIS®** ratings

Flammability: 1 Physical hazard: 0

**NFPA** ratings Health: 2

Flammability: 1 Instability: 0

This SDS is intended to quickly provide useful information to the user(s) of this material or product. Disclaimer

> It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other

safety and health information about this product is inaccurate or incomplete. Product and Company Identification: Product Codes

Hazard(s) identification: Response

Material name: WOOD AND WOOD PRODUCTS

**Revision information** 

7/7 4424 Version #: 07 Revision date: February-13-2019

# **WOOD AND WOOD PRODUCTS**

# Hazard statement

cause respiratory irritation. May cause cancer. If small particles of wood May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May dust are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

# Precautionary statement

Wash thoroughly after handling. Use only outdoors or in a well-ventilated workplace. Prevent dust accumulation and airborne dispersion of dust to espiratory protection. Avoid breathing dust/fume/gas/mist/vapors/spray Obtain special instructions before use. Do not handle until all safety area. Contaminated work clothing must not be allowed out of the gloves/protective clothing/eye protection/face protection. Wear precautions have been read and understood. Wear protective minimize flash fire and explosion hazard. Keep away from neat/sparks/open flames/hot surfaces. - No smoking.

exposed or concerned: Get medical advice/attention. In case of fire: Use advice/attention. Wash contaminated clothing before reuse. If inhaled: rritation persists: Get medical advice/attention. If on skin: Wash with (one yes: Rinse cautiously with water for several minutes. Remove Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If continue rinsing. If eye olenty of water. If skin irritation or rash occurs: Get medical appropriate media to extinguish.

Store in a well-ventilated place. Store away from incompatible materials

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

Georgia-Pacific Wood Products LLC

GP Georgia-Pacific

133 Peachtree Street, NE Chemtrec - Emergency : Atlanta, GA 30303



### Danger

sawing, sanding or machining wood and wood products, is considered hazardous and is regulated Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from under the Hazard Communication Standard 29 CFR 1910.1200.

# California Proposition 65



wood dust, a substance known to the State of California to cause cancer. WARNING: Drilling, sawing, sanding or machining wood products can expose you to Avoid inhaling wood dust, or use a dust mask or other safeguards for personal protection. For more information go to:

www.P65Warnings.ca.gov/wood

## Product list:

Lumber Products:- Solid sawn wood, Dimension Lumber, Lumber, Studs

Plywood:- Plytanium® plywood, DryPly® plywood, Plytanium® siding, Ply-Bead® panels,

PlyFrame® panels, PlyForm panels

Oriented Strand Board (OSB):- Blue Ribbon® OSB (Mill #451,500), Thermostat® radiant

barrier sheathing (Mill #500), FiberStrong® HD panels (Mill #451, 500), Camouflage panels featuring Mossy Oak® brand (Mill #500), Realtree® camouflage panels (Mill #500)

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### Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

### 1. Identification

Product Name: BEYE 13-OZ 6 PK 123 +SSPR Revision Date: 6/18/2020

Product Identifier: 2008 Supercedes Date: 1/23/2020

Recommended Use: Primer / Aerosols

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Supplier: Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

### 2. Hazards Identification

### Classification

### Symbol(s) of Product



### **Signal Word** Danger

### Possible Hazards

55% of the mixture consists of ingredient(s) of unknown acute toxicity.

### **GHS HAZARD STATEMENTS**

Carcinogenicity, category 2 H351 Suspected of causing cancer.

Compressed Gas H280 Contains gas under pressure; may explode if heated.

Eye Irritation, category 2A H319 Causes serious eye irritation. Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

### **GHS LABEL PRECAUTIONARY STATEMENTS**

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO

SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.
P264 Wash hands thoroughly after handling.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

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P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

### 3. Composition / Information on Ingredients

### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Acetone	67-64-1	10-25	GHS02-GHS07	H225-319-332-336
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10-25	GHS08	H304
Propane	74-98-6	10-25	GHS04	H280
Titanium Dioxide	13463-67-7	10-25	Not Available	Not Available
n-Butane	106-97-8	2.5-10	GHS04	H280
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
Kaolin Clay	1332-58-7	2.5-10	Not Available	Not Available
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.0-2.5	GHS02-GHS07	H226-315-319-332
Octane	111-65-9	0.1-1.0	GHS02-GHS07- GHS08	H225-304-315-336
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373

### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

### 6. Accidental Release Measures

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

### 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

### 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	20.0	250 ppm	500 ppm	1000 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
n-Butane	106-97-8	10.0	N.Ē.	1000 ppm	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	5.0	2 mg/m3	N.E.	N.E.	N.E.
Kaolin Clay	1332-58-7	5.0	2 mg/m3	N.E.	15 mg/m3	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

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### 9. Physical and Chemical Properties

Appearance: **Physical State:** Aerosolized Mist Liquid Odor: Solvent Like **Odor Threshold:** N.E. Specific Gravity: 0.879 pH: N.A. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-octanol/ Slight N.D. water: Decompostion Temp., °C: N.D. Boiling Range, °C: Explosive Limits, vol%: -37 - 537 0.9 - 13.0Flammability: Flash Point, °C: Supports Combustion -96 **Evaporation Rate:** Auto-ignition Temp., °C: Faster than Ether N.D. Vapor Density: Vapor Pressure: Heavier than Air N.D.

(See "Other information" Section for abbreviation legend)

### 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

### 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** No Information

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.E.
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
1332-58-7	Kaolin Clay	5500 mg/kg	>5000 mg/kg Rat	25
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
111-65-9	Octane	N.E.	N.E.	>23.36 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.E. - Not Established

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### 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

### 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

### 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

### 15. Regulatory Information

### U.S. Federal Regulations:

### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Serious eye damage or eye irritation

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- Isomers)1330-20-7Ethylbenzene100-41-4

### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

Chemical NameCAS-No.Castor oil, sulfated, sodium salt68187-76-8

### U.S. State Regulations:

### California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Legend:

Health: 2 Flammability: 4 Instability 0

Maximum Incremental Reactivity 0.60 SDS REVISION DATE: 6/18/2020

REASON FOR REVISION: Product Composition Changed

Substance and/or Product Properties Changed in Section(s):

01 - Identification

15 - Regulatory Information 16 - Other Information Revision Statement(s) Changed

N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

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