

WHMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
		NOT REGULATED

**SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Use:** Universal sealer.

**Formula number:** Not applicable

**Distributor:** Soprema Canada  
1675 Haggerty Street  
Drummondville (Quebec) J2C 5P7  
CANADA  
Tel.: 819 478-8163

**In case of emergency:**

SOPREMA (8:00am to 5:00pm): 1 800 567-1492    CANUTEC (Canada) (24h.): 613 996-6666    CHEMTREC (É.-U.) (24h.): 1 800 424-9300

**EMERGENCY OVERVIEW!!!**

Straw-coloured viscous liquid with negligible odour. This product is harmful by inhalation, when in contact with the skin and if it is swallowed. This product may cause sensitization by inhalation and skin contact. Repeated inhalation of vapours may cause an allergic respiratory response, the onset of which may be delayed several hours after exposure. Avoid contamination. Water reacts with product liberating CO<sub>2</sub> gas.

**SECTION II: COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS**

NAME	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
Polyurethane Polymer	Not available	40-60	Not available	Not available
Methyle Bisphenol Isocyanate (MDI)	101-68-8	15-40	0.005 ppm	Not available
Diisodecyl Phthalate (mixed isomers)	68515-49-1	10-30	Not available	Not available
1,1'-Methylenebis (isocyanato-) benzene	26447-40-5	5-10	Not available	Not available
Benzene, 1,1'-methylenebis(isocyanato-, homopolymer	39310-05-9	1-5	Not available	Not available
Dimethyl silicone polymer with silica	67762-90-7	1-5	Not available	Not available

**SECTION III: POTENTIAL HEALTH EFFECTS**

**HAZARDOUS HEALTH EFFECTS**

**INHALATION OF PARTICULATES (SPRAYING) AND FUMES**

Allergic lung reaction such as asthma, which includes coughing, wheezing, chest pain and tightness, difficulty breathing and shortness of breath; irritation of the upper respiratory tract, which includes burning of mouth, throat and chest.

**EYES**

This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing.

**INGESTION**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**SKIN**

This product is irritating to the skin. This product may cause allergic skin reaction.

**ACUTE HEALTH EFFECTS**

See above at *Inhalation of particles and fumes*.

**SECTION IV: FIRST AID MEASURES**

**INHALATION**

Leave area to breathe fresh air. Oxygen therapy may be necessary, seek medical attention if needed. Should be observed by physician immediately if overexposure is severe. Immediate or delayed asthma-like symptoms may develop.

**EYES**

Flush immediately with running water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.

**INGESTION**

Get medical attention or advice immediately. Do not induce vomiting unless advised by a physician. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**SKIN**

Wash area of contact thoroughly with soap and water. If irritation, rash or other disorders develop or persist, get medical attention immediately. Contaminated leather articles, including shoes, that cannot be decontaminated, should be discarded.

## SECTION V: FIRE-FIGHTING MEASURES

**FLASH POINT:** > 350°F (177°C)  
**METHOD:** PM cc  
**FLAMMABILITY LIMITS IN AIR:** N/A  
**AUTO-IGNITION TEMPERATURE:** Not established  
**FIRE AND EXPLOSION HAZARDS:** N/A

### SPECIAL FIRE FIGHTING PROCEDURES

Cool containers with water spray. Containers may burst if overheated. This product reacts with water producing CO<sub>2</sub> gas. Do not reseal contaminated containers as a hazardous pressure build-up could result in container rupture. During a fire, personnel at the scene must avoid exposure to fumes using accepted fire fighting techniques.

### COMBUSTION PRODUCTS

Combustion products may include carbon oxides, nitrogen oxides, hydrocarbons, HCN and isocyanates.

### EXTINGUISHING MEDIA

Dry chemical powder, CO<sub>2</sub>, foam.

### OTHER PRECAUTIONS

Firefighters should wear full protective clothing including self-contained breathing apparatus.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

### RELEASE OR SPILL

Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure. Avoid inhalation of vapours or mists. Surface may become slippery after a spill. Wear appropriate personal protective equipment. Stop the flow of material, if this is without risk. Do not allow to drain to sewers. Ventilate the contaminated area. Absorb spill with inert material (sand, earth or other suitable material). Transfer to appropriate container for neutralization or disposal. Follow all local, state and federal regulations for disposal of the spilled material.

## SECTION VII: HANDLING AND STORAGE

### HANDLING AND STORAGE PRECAUTIONS

Avoid contact with skin and eyes. Do not breathe vapours. Wear proper personal protective equipment. Avoid contact with water. Do not re-seal contaminated product as a hazardous build-up of pressure may result from liberation of CO<sub>2</sub> gas. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin and zinc. Keep containers properly sealed in a cool, dry, well-ventilated area below 105°F (40.5°C). Do not store in open, unlabeled or mislabelled containers. Do not reuse empty container without commercial cleaning or reconditioning.

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

**HANDS:** The use of neoprene, nitrile rubber or butyl rubber gloves is recommended.

**RESPIRATORY:** Use a NIOSH-approved organic vapour respirator to protect against inhalation of vapours. A respirator should be used if ventilation is unavailable, or is inadequate for keeping vapours levels below the applicable exposure limits.

**EYES:** Wear chemical goggles; add face shield (if splashing is possible).

**OTHERS:** Eye wash fountain and emergency showers are recommended.

**CONTROL OF VAPOURS:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid  
**ODOUR AND APPEARANCE:** Viscous liquid with negligible odour  
**COLOUR:** Straw-coloured  
**pH:** Not available  
**VAPOUR PRESSURE:** Not available

**VAPOUR DENSITY:** Not available  
**BOILING POINT:** Not available  
**MELTING POINT:** Not available  
**FREEZING POINT:** Not available  
**EVAPORATION RATE:** Not available  
**VOC:** Not available  
**SOLUBILITY IN WATER:** Reacts with water  
**VISCOSITY:** 6 700 cps at 75°F (24°C)  
**SPECIFIC GRAVITY:** 1.10  
**% VOLATILE:** < 0.15%

## SECTION X: STABILITY AND REACTIVITY

**STABILITY:** This material is stable at room temperature. Reaction with water (moisture) produces CO<sub>2</sub> gas. Exothermic reaction with materials containing active hydrogen groups.

**CONDITIONS TO AVOID:** Avoid high temperatures. Avoid contact with water. Avoid contamination. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin and zinc.

**INCOMPATIBILITY:** Avoid contact with water, alcohols, amines, bases and acids.

**HAZARDOUS DECOMPOSITION:** Carbon oxides, nitrogen oxides, hydrocarbons, HCN and isocyanates.

**CONDITIONS TO AVOID POLYMERIZATION:** Polymerization will occur at elevated temperatures in the presence of alkalies, tertiary amines and metal compounds.

## SECTION XI: TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA

#### *Diisodecyl phthalate (mixed isomers):*

LD50 (oral, rat): > 60 000 mg/kg

LD50 (dermal, rabbit): > 16 000 mg/kg

#### *1,1'-Methylenebis(isocyanato-) benzene:*

LC50 (4 hours, rat): 0,369 mg/L

LD50 (dermal, rabbit): > 6 200 mg/kg

#### *Methylene bisphenol isocyanate:*

LD50 (oral, rat): 9 200 mg/kg

### ACUTE EXPOSURE

This product is harmful by inhalation, when in contact with the skin and if it is swallowed. This product may cause sensitization by inhalation and skin contact. Repeated inhalation of vapours may cause an allergic respiratory response, the onset of which may be delayed several hours after exposure. This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

### CHRONIC EXPOSURE

Repeated or prolonged exposure to MDI may result in isocyanate sensitization (chemical asthma) in some individuals, causing them to react to isocyanate exposure at concentrations below the established exposure limits. Symptoms include chest tightness, wheezing, coughing, and shortness of breath. Effects can be delayed. Overexposure can cause lung damage, including decreased lung function. Prolonged or repeated skin contact may cause irritation leading to dermatitis. Skin sensitization may also occur. Lung injury has been observed in laboratory animals after repeated excessive exposure to MDI/polymeric MDI aerosol droplets. Lung tumours have been observed in laboratory animals exposed to aerosols droplets of MDI/polymeric MDI (6 mg/m) for their lifetime. Tumours occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects.

### CARCINOGENICITY

No additional information available.

**SECTION XII: ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL DATA:** N/A  
**CHEMICAL FATE:** N/A

**SECTION XIII: DISPOSAL CONSIDERATIONS**

**RCRA CLASS:** N/A  
**DISPOSAL METHOD:** Dispose of in compliance with local, state, federal and provincial regulations.  
**EPA REPROTABLE QUANTITIES:** N/A

**SECTION XIV: TRANSPORT INFORMATION**

**DOT SHIPPING NAME:** Not regulated  
**DOT HAZARD CLASS:** Not regulated  
**UN/NA NUMBER:** Not regulated  
**PACKING GROUP:** Not regulated  
**REPORTABLE QUANTITY (RQ):** Not regulated

**SECTION XV: REGULATORY INFORMATION**

**WHMIS:**  
D1A: Poisonous and infectious material – Immediate and serious effects – Very toxic  
D2A: Poisonous and infectious material – Other effects – Very toxic  
D2B: Poisonous and infectious material – Other effects – Toxic

**TSCA STATUS:** On the Toxic Substances Control Act Inventory.  
**OSHA STATUS:** Considered hazardous.  
**TARGET ORGANS:** Eyes and respiratory system.

**OSHA HAZARDOUS COMPONENTS**

Methylenebis Phenylisocyanate (101-68-8)  
Not classified as a carcinogen with NTP, ACGIH or IARC.  
Not regulated as a carcinogen with OSHA.  
Classified by IARC in Group 3 (not classifiable as to its carcinogenicity to humans).

**SARA 311 RATINGS**

Immediate Health Hazard: Y  
Delayed Health Hazard: Y  
Fire Hazard: N  
Reactivity Hazard: Y  
Sudden Release of Pressure Hazard: Y

**SARA 313 INGREDIENTS**

Methylene bisphenol isocyanate (MDI) (101-68-8)  
Proposition 65 Ingredients – This product contains a chemical known to the State of California to cause reproductive/developmental effects.

<b>HMIS (USA):</b>		<b>NFPA (USA):</b>	
<b>Health</b>	<b>2</b>	<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>1</b>	<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>	<b>Reactivity</b>	<b>1</b>
<b>Protective equipment</b>	<b>G</b>	<b>Specific hazard</b>	<b>-</b>

**SECTION XVI: OTHER INFORMATION**

**Glossary:**  
**ANSI:** American National Standards Institute  
**ASTM:** American Society for Testing and Materials  
**CAS:** Chemical Abstract Services  
**CSA:** Canadian Standardisation Association  
**DOT:** Department of Transportation (United States)  
**EPA:** Environmental Protection Agency (United States)  
**HMIS:** Hazardous Material Information System  
**LD50/LC50:** Less high lethal dose and lethal concentration published  
**NFPA:** National Fire Protection Association (United States)  
**OSHA:** Occupational Safety & Health Administration (United States)  
**RCRA:** Resource Conservation and Recovery Act (United States)  
**TDG:** Transportation of Dangerous Goods  
**TLV-TWA:** Threshold Limit Value – Time-Weighted Average  
**WHMIS:** Workplace Hazardous Materials Information System (Canada)

**Reference:**  
Material Safety Data Sheet of supplier.

**Code of MSDS:** CA U DRU SS FS 138  
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The Material Safety Data Sheets of SOPREMA are available on Internet at the following site: <http://www.soprema.ca>

**Justification of the update:**

- New product.

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 of WHMIS (Canada).

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