



# GLENGARRY CHEMICALS LTD.

33 Melford Drive, Unit 6  
Scarborough, ON M1B 2G6  
Phone: 416-757-1333 Fax: 416-757-9793

## MATERIAL SAFETY DATA SHEET

### Emergency Telephone Numbers:

CANUTEC: 1-613-996-6666  
POISON CONTROL CENTRE: 1-800-268-9017

W.H.M.I.S. CLASSIFICATION: Not Controlled

### SECTION I PRODUCT INFORMATION

Product Name : Propylene Glycol Inhibited  
Product Use : Freeze Point Depressant  
Chemical Family : Glycol  
Chemical Formula : C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>

### SECTION II HAZARDOUS INGREDIENTS

| COMPONENTS       | Wt / Wt % | LD <sub>50</sub> Oral-rat | HAZARD               | CAS NO. |
|------------------|-----------|---------------------------|----------------------|---------|
| Propylene Glycol | 60 to 100 | 20g/Kg                    | Relatively Non Toxic | 57-55-6 |

### SECTION III PHYSICAL STATE

Appearance and Physical State : Clear and Colourless Liquid  
Odour : None Boiling Point (°C) : 187  
Specific Gravity (water = 1) : 1.032 Freezing Point (°C) : -60  
Vapour Pressure (mm Hg) : 0.13 @ 25 C % Volatile ( by weight ) : Not Available  
Vapour Density (air = 1) : 2.62 pH Product : 8.5 - 10.5  
Evaporation Rate : Not Available pH 1% Solution :  
Solubility in Water : Miscible Coefficient of Water/Oil Distribution : Not Available

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability: Combustible Liquid  
Upper Explosive Limit : 12.5 % (V/V) Lower Explosive Limit : 2.6% (V/V)  
Flash Point : 103 °C  
Means of Extinction: Appropriate for surrounding materials.  
Special Procedures : Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals.

### SECTION V HEALTH HAZARD DATA

#### A - EFFECTS OF ACUTE OVEREXPOSURE

EYES: Causes irritation, redness and pain.  
SKIN: May cause irritation.  
INHALATION: Product is not volatile, however mists may be irritating.  
INGESTION: Relatively non-toxic. Ingestion of sizable amount may cause some gastrointestinal upset and temporary central nervous system depression.

#### B - EFFECTS OF CHRONIC OVEREXPOSURE

Repeated excessive exposure to propylene glycol may cause central nervous system effects.

## SECTION VI EMERGENCY AND FIRST AID

- EYES:** Wash with copious amount of cold water for at least 20 minutes keeping eyelids open. If irritation persists, repeat flushing. Obtain medical attention immediately.
- SKIN:** Immediately wash the affected areas with plenty of water. If irritation, redness or burning sensation develops obtain medical advice.
- INHALATION:** Remove to fresh air.
- INGESTION:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

## SECTION VII TOXICOLOGICAL DATA

- Exposure Limits:** ACGIH - TLV: 50 ppm
- Carcinogenicity:** The ingredients of this product are not classified as carcinogens by ACGIH or IARC, not regulated as carcinogen by OSHA, and not listed as carcinogen by NTP.
- Reproductive Effects:** Tests in animals demonstrate no reproductive toxicity.
- Mutagenic Effects:** In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.
- Teratogenic Effects:** No information is available.
- Sensitization:** No information is available.
- Routes of Entry:** Ingestion, Inhalation, Skin and eye absorption.

## SECTION VIII SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material Is Spilled Or Released:

Wear protective equipment. Collect and reuse. If contaminated, collect for disposal.

### Disposal Procedures:

Follow your local, provincial, and federal government chemical disposal regulations.

## SECTION IX PROTECTION INFORMATION

- Engineering Controls:** Local Exhaust.
- Respiratory Protection:** Not normally required.
- Protective Clothing:** Chemical resistant Gloves, apron or impervious protective clothing.
- Eye Protection:** Safety Glasses.
- Other Protective Equipment:** Eye Wash Station and Safety Shower.

## SECTION X REACTIVITY DATA

- Stability:** Stable.
- Conditions to Avoid:** Heat, flames, ignition sources, water (absorbs readily) and incompatibles.
- Hazardous Polymerization:** Will Not Occur.
- Incompatibility to Other Substances:** Strong oxidizing agents.
- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include oxides of carbon. Heating in air may produce irritating aldehyde, acids and ketones.

## SECTION XI HANDLING AND STORAGE PRECAUTIONS

Keep containers closed when not in use. Avoid storage at high temperatures, and away from sources of ignition. Use appropriate safety equipment, and exercise normal "good" industrial hygiene and housekeeping practices. Wash thoroughly with soap and water after handling.

## SECTION XII FURTHER INFORMATION

### TDG CLASSIFICATION:

**Shipping Name:** NOT REGULATED

**UN Number:** Not Applicable. **Class:** Not Applicable. **Packing Group:** Not Applicable.

### Preparation Information:

**Prepared By:** Regulatory Department

**Revision Date:** 20-Aug-12 **Preparation Date:** 07-Mar-01

*The information supplied above is presented in good faith and has been derived from sources believed to be reliable. However, no warranty, express or implied, is extended regarding its accuracy or the results to be obtained from its use. Products supplied by our company are sold under the condition that liability for any personal injury or damage whatsoever to any property real or personal arising from the handling or use will, in all cases, remain with the handler or user.*