



Material Safety Data Sheet

PROPYLENE GLYCOL - All Grades

Section 1: PRODUCT INFORMATION

Chemical family: Glycols.

Supplier: LynCar Fire Inc.
100 Westcreek Blvd., Unit 2
Brampton, Ontario
L6T 5V7

Emergency Phone Number: Canutec (613) 996-6666.

Manufacturer: Great North Chemicals, Inc.

TDG classification: Not regulated.

WHMIS classification: Not controlled.

DSL status: Appears on DSL.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
57-55-6	>99.5	PROPYLENE GLYCOL	NOT AVAILABLE	20,000 MG/KG RAT ORAL 22,000 MG/KG MOUSE ORAL 18,500 MG/KG RABBIT ORAL 20,800 MG/KG RABBIT DERMAL	NOT AVAILABLE

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Clear, colorless.
Little or no odor.

Vapour pressure (mm hg): ~0.08 @ 20°C

Vapour density (air=1): ~ 2

By weight: 0.1 – 1.0%

Evaporation rate (butyl acetate = 1): Not available.

Boiling point (°C): ~ 188 @ 760 mm Hg

PH: ~ 7

Specific gravity @ 20 °C: ~1.04 @ 25°C

Solubility in water (%): Complete.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Slightly combustible.

Conditions of flammability: Vapours can travel to a source of ignition and flash back.
Heat, sparks and open flames.

Extinguishing media: Alcohol foam, dry chemical or carbon dioxide (CO₂).

Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.

Auto-ignition temperature: ~ 371°C

Flash point (°C), method: ~ 109°C (PMCC) (Aqueous solution).

Lower flammability limit (% vol): ~ 2 vol%

Upper flammability limit (% vol): ~ 17 vol%

Sensitivity to mechanical impact: Not available.

Hazardous combustion products: Carbon monoxide where combustion is incomplete.
Other toxic vapors.

Explosive power: Not available.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of reactivity: Exposure to light.
High temperatures.
Oxidizing agents.

Hazardous polymerization: Not expected to occur.

Incompatible substances: Strong acids.
Isocyanates.
Strong oxidizing agents.

Hazardous decomposition products: See hazardous combustion products in section 4.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Inhalation, skin and eye contact.

Effects of acute exposure

Eye contact: May cause mild irritation.

Skin contact: Not expected to cause irritation.
Prolonged contact may cause dermatitis.

Inhalation: May cause mild irritation to the nose and throat.

Ingestion: Not a likely route of exposure.
In high doses, may cause discomfort, irritation of the gastrointestinal tract and CNS depression.

Effects of chronic exposure: No long term effects known at this time.

LD50 of product, species & route: 22,000 mg/kg rat oral
20,800 mg/kg rabbit dermal

LC50 of product, species & route: Not available.

Exposure limit of material: Not available.

Sensitization to product: Not expected to be a sensitizer.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: No reproductive effects in animals.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:



Chemical resistant gloves.

Respiratory/Type: None required under normal use.



NIOSH approved respirator, if necessary.

Eye/Type: Splash proof goggles.

Footwear/Type: Safety boots per local regulations.

Clothing/Type: Wear adequate protective clothes.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: General ventilation usually adequate.

Leak/Spill: Absorb spill with an inert absorbent material.
Contain the spill.
Prevent entry into drains, sewers, and other waterways.
Do not use water for clean-up operations.
Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

Handling procedures and equipment: Use adequate ventilation.
Wash thoroughly after handling.
Avoid contact with skin, eyes and clothing.
Wear suitable protective clothing.
Decontaminate footwear before reuse.
Launder contaminated clothing prior to reuse.

Storage requirements: Keep container tightly closed.
Use only steel, stainless steel or reinforced plastic containers for storage.
Store between 18 and 32°C.
Use dry nitrogen or low dew point air for tank padding.

Special shipping information: See transportation information in section 1.

Section 8: FIRST AID MEASURES

Skin contact: Wash thoroughly with water.
Remove contaminated clothing.

Eye contact: Seek medical attention if irritation persists.
Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids.

Inhalation: Remove victim to fresh air.
If breathing is difficult, administer oxygen.
Seek medical attention if symptoms persist.

Ingestion: Obtain medical attention.
DO NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If conscious, give 2 to 4 glasses of lukewarm water.

Additional information: To the best of our knowledge, the information contained herein is accurate. However, neither Great North Chemicals Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Section 9: ADDITIONAL INFORMATION

General note: This Material Safety Data Sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

Data prepared by: Tony Roehrig, January 1, 2014