SAFETY DATA SHEET

PROPYLENE GLYCOL 38%

SECTION 1. PRODUCT AND COMPANY INFORMATION

Supplier Information:	LynCar Fire Inc. 100 Westcreek Blvd. Brampton, Ontario L6T 5V7 Phone: (905) 453-2400 Fax: (800) 459-6227
Manufacturer:	Great North Chemicals
Chemical Name:	1, 2-propanediol, 1, 2-Dihydroxypropane, Propane-1,2-diol
Chemical Family:	C3H8O2
Product Use:	Heat transfer fluid, production of polymers, Pharmaceuticals, Antifreeze

24 HOUR EMERGENCY TELEPHONE NUMBER:

905-832-2276

SECTION 2: HAZARDOUS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: No Information

GHS Classification

Symbol(s) of Product: No GHS Symbols Exist

Signal Word: No Signal Word has been assigned

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
1,2-propanediol	57-55-6	38	No Information	No Information

SECTION 4: FIRST AID MEASURE

FIRST AID - EYE CONTACT:

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

FIRST AID - SKIN CONTACT:

Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated shoes and clothes and clean before reuse.

FIRST AID - INHALATION:

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID - INGESTION:

Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. None normally required. If uncomfortable, seek medical assistance.

SECTION 5: FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors/dust may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be

dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

SPECIAL FIREFIGHTING PROCEDURES:

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Water may be ineffective. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

EXTINGUISHING MEDIA:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED:

Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.)Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways.

Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE:

Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
1,2-propanediol	N.D.	N.D.	N.D.	N.D.

Personal Protection

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Wear impervious gloves to prevent contact with the skin.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this materialshould be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, transparent liquid
Physical State:	Liquid
Odor:	Typical
Odor Threshold:	N.D.
Specific Gravity @20C	1.034
pH (5% solution)	9-11
Freeze Point, °F:	0
Viscosity at 60F	4cps
Solubility in Water:	Miscible
Explosive Limits, vol%:	2.6 - 12.5
Boiling Range, °F:	363 - 372
Flash Point, °F:	219
Evaporation Rate:	0.01
Auto-ignition Temp., °F:	N.D.
Vapor Density:	2.6
Vapor Pressure:	N.D.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: No Information

CONDITIONS TO AVOID: Avoid excess heat and sources of ignition.

INCOMPATIBILITY: Prevent contact with isocyanates. Prevent contact with strong oxidizing agents. Keep away from acids. HAZARDOUS

DECOMPOSITION PRODUCTS: During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

HAZARDOUS POLYMERIZATION: No Information

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

EFFECTS OF OVEREXPOSURE - INHALATION:

Breathing in the material may irritate the mucous membranes of the nose, throat bronchi and lungs. High doses may cause CNS depression (fatigue, dizziness, possibly loss of concentration with collapse, coma and death in severe cases of over-exposure.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:

May cause skin irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT:

May cause eye irritation.

EFFECTS OF OVEREXPOSURE - INGESTION:

No significant health hazard identified.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:

No Information

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name according to EEC	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50, mg/L
57-55-6	1,2-propanediol	>5000	>5000	>20

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information

SECTION 13: DISPOSAL CONSIDERATIONS

For more guidance and information contact our Waste Services Division at (262) 658-4000. Always dispose of any waste in accordance with all local, state, and federal regulations.

DISPOSAL METHOD:

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED:

Wear appropriate personal protective equipment. (See Exposure Controls / Personal P rotection Section.)Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for cleanup. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

SECTION 14: TRANSPORTATION INFORMATION

TDG/DOT shipping: Not Regulated

SECTION 15: REGULATORY INFORMATION

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations.

WHMIS Class: No Information

SECTION 16: OTHER INFORMATION

Health	Flammability	Reactivity	Personal Protection
0	1	0	X

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