SAFETY DATA SHEET

GLYCERINE 48%

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:	Glycerol
Chemical Family:	Polyol
Product Use:	Anti-freeze for sprinkler systems in food establishments.

24 HOUR EMERGENCY TELEPHONE NUMBER:

905-832-2276

SECTION 2: HAZARDOUS IDENTIFICATION

Hazard Classification	Not a regulated product
Signal Word	**None**
Hazard Statement	None
Precautionary Prevention Statement	Non Hazardous
Precautionary Response Statement	Non Hazardous
Precautionary Storage Statement	Non Hazardous
Precautionary Disposal Statement	Non Hazardous
Other Hazards	None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Glycerine	Glycerol	56-81-5	48

SECTION 4: FIRST AID MEASURE

Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Wash skin with water.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.

Most Important Symptoms and Effects Both Acute and Delayed	Immediate Medical Attention and Special Treatment
None expected	Not a hazardous product. None required.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media	Use dry chemical, CO2, water spray (fog), or foam.
Hazardous Combustion Products	Oxides of carbon.
Specific Hazards Arising From the Product	None known.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Protective equipment is not required under normal conditions of use. Good housekeeping practices should be employed. Secure area. Surface may become slippery.
Environmental Precautions	As a general precaution, glycerine should not be allowed to enter the storm sewers or surface watercourses.
Methods and Materials For Containment and Clean-Up	Soak up with absorbent. Place in a suitable container for disposal. Wash area with water to remove residues.

SECTION 7: HANDLING AND STORAGE

Precautions For Safe Handling	Handle with care. Good housekeeping practices should be employed.
Conditions For Safe Storage	Store in a cool place. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters	TWA: 8 Hr	STEL: 15 min Ceiling	IDLH *
Glycerine	10 mg/m3 mist CAD AB OEL		

Exposure Controls	Local exhaust ventilation
Appropriate Engineering Controls	Not required

Individual Protective Measures

Eye / Face Protection	Wear chemical safety goggles
Skin Protection	Wear chemical safety gloves
Respiratory Protection	None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless
Odour	Virtually odourless liquid
Odour Threshold	Not applicable
pH	Not available
Flash Point	177 °C
Boiling Point and Boiling Range	100 °C
Melting Point	17.8 °C (solidifies at much lower temperature)
Freezing Point	-26°C
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	2.7 - 19 %(V) at 1.013 kPa (760 mmHg)
Vapour Pressure	175mm Hg at 20°C
Vapour Density	(Air = 1) .670
Relative Density	1.125 @ 25 °C
Solubility	Soluble in water; hygroscopic
Partition co-efficient, n- Octanol/Water	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
% Volatile	<1
Viscosity	No data

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable
Chemical Stability	The product is stable
Possibility of Hazardous Reactions	None
Conditions to Avoid	High temperatures, sparks, open flames, and other sources of ignition. Avoid moisture contamination.
Incompatible Materials	Strong oxidizers, strong acids, and isocyanates.
Hazardous Decomposition Products	Under normal storage conditions decomposition will not occur. Thermal decomposition products are toxic and may include oxides of carbon and irritating gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity	**LD50 Oral**	**LD50 Dermal**	**LC50 Inhalation**
Glycerine	12.6 g/kg (Rat)	>10 g/kg (Rabbit)	>570 mg/m3, 1h (Rat)

Likely Routes of Exposure

Skin:	Potential irritant. May cause irritation and redness with prolonged and repeated contact.
Eyes:	May cause tearing and irritation.
Inhalation:	May cause irritation of the upper respiratory tract. May cause irritation of the upper respiratory tract.
Ingestion:	May cause digestive tract disturbances.
Acute Toxicity Estimate (ATE)	LD50 Oral - Rat - 12,600 mg/kg LD50 Dermal - Rabbit - > 10,000 mg/kg
STOT (Specific Target Organ Toxicity) –Single Exposure	Not classified
Aspiration Toxicity	Not classified

STOT (Specific Target Organ Toxicity) –Repeated Exposure	Not classified
Skin Corrosion/Irritation	Not classified
Serious Eye Damage /Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Carcinogenicity	No information available.

Reproductive Toxicity

-Sexual Function and Fertility	Not classified
-Development of Offspring	Not classified
-Effects on or via Lactation	Not classified

Germ Cell Mutagenicity	Not classified
Interactive Effects	None known

Other Information
None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	LC50: 23,800 (Sheepshead Minnow) 96 hr EC50: above 43,500 mg/L (Daphnia) 48 hr
Persistence and Degradability	Will not persist
Bioacumulative Potential	Will not accumulate
Biodegradability	This product has a moderate rate of biodegradation
Mobility in Soil	No data
Special Remarks	BOD: 2.2 – 64% (theoretical 5 days)
Other Adverse Effects	None known

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of contents/container in accordance with local, provincial, and national regulations

SECTION 14: TRANSPORTATION INFORMATION

UN Number	None
UN Proper Shipping Name	None
Transport Hazard Class(es)	None
Packaging Group	None
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

SECTION 15: REGULATORY INFORMATION

Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

SECTION 16: OTHER INFORMATION

Prepared by: Great North Chemicals, Quality Department,
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