

MT. HOOD CHEMICAL CORPORATION
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MATERIAL SAFETY DATA SHEET
PRODUCT NAME: FREEZE PROTECTION

N/A = NOT APPLICABLE
NA = NOT AVAILABLE

PRODUCT NAME: FREEZE PROTECTION PREPARED BY: K. Woods DATE: August 31, 1995

CHEMICAL FAMILY: Non-Toxic Glycol Blend FORMULA: Proprietary blend of Propylene Glycol and other non-toxic glycols

HAZARDOUS INGREDIENTS (CAS #):	%	EXPOSURE LIMITS, ppm:	ACGIH TLV	OSHA-PEL
Propylene Glycol (57-55-6)	More than 50%		N/A	N/A

CARCINOGENIC INGREDIENTS: Contains no known or suspected carcinogens.
SARA TITLE III, SECTION 313 REPORTABLE INGREDIENTS: None

PHYSICAL PROPERTIES:

Boiling Point: About 200°F	% Volatiles: 100
Solubility in Water: 100%	% Volatile Organic Content (VOC): 100%
Specific Gravity - Liquid (H ₂ O = 1): 1.03-1.04	Vapor Pressure: 0.20-0.25 mm Hg at 68 degrees F
Odor and Appearance: Clear, colorless, viscous liquid; bland odor	Vapor Density (Air = 1): 2.5-2.7

FIRE AND EXPLOSION DATA:

Flash Point: 212 degrees F, TCC Flammability Limits: LEL: 2.6%, UEL: 12.6%
Extinguishing Media: Water, CO₂, foam, dry chemical
Special Firefighting Procedures: Wear self-contained breathing apparatus. Use water to keep fire-exposed containers cool.
Unusual Hazards: None

HEALTH EFFECTS:

Effects of overexposure: May cause temporary minor eye irritation. Skin contact may cause minor irritation. Skin absorption is possible, but harmful effects are not expected under normal conditions of use. Ingestion of large quantities may cause nausea.
Chronic effects of overexposure: None known or expected.
Medical conditions that may be aggravated by exposure: None known or expected.
Primary routes of entry: Ingestion, skin contact

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush thoroughly with plenty of water for several minutes. If irritation persists, see a physician.
Skin Contact: Flush thoroughly from skin with water.
Ingestion: Drink two glasses of water. First aid not normally required. Call physician if symptoms develop.
Inhalation of mist or vapor: N/A

REACTIVITY DATA:

Stability: Stable Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, strong acids or bases
Hazardous Decomposition Products: may form carbon dioxide and carbon dioxide in a fire.
Conditions to Avoid: None

SPILL OR LEAKAGE PROCEDURES:

Steps to be taken if material is released or spilled:
Absorb on an absorbent such as vermiculite, or floor absorbent. Scrub floor well to remove residue to prevent slipperiness.
Waste disposal method: According to local, state, or federal ordinances.

SPECIAL PROTECTION INFORMATION:

Ventilation: NA
Respiration Protection: None required
Eye Protection: None required
Protective Gloves: None required
Other Protective Equipment: None required

SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storage: Store in closed container in a dry place. Wash thoroughly after handling.
KEEP OUT OF REACH OF CHILDREN.
Other precautions: None

HAZARD RATING:

Health:	0	0 = Minimal	3 = Serious
Fire:	1	1 = Slight	4 = Severe
Reactivity:	0	2 = Moderate	
Specific Hazard:	N/A		