

Section 1. Identification

Product Identifier

Product Name 49N Conventional Antifreeze
 Common Name Ethylene Glycol
 CAS Number 107-21-1
 Product Code(s) 9000 / 9050

Recommended or Restricted Uses

Recommended Use Antifreeze / Coolant
 Restricted Use Not Applicable

Canadian Supplier

Supplier 49 North Lubricants
 6611 45th Street,
 Leduc, Alberta
 T9E 7E3
 Canada
 Tel: (780) 986-9260
 Fax: (780) 986-9650

Emergency Telephone Number


Emergency Telephone CHEMTREC: 1-800-424-9300

Section 2. Hazard Identification

Hazard Classification

WHMIS Regulatory Status Hazardous Product
 Physical Hazards Not Classified
 Health Hazards Acute Toxicity – Oral Category 4
 Environmental Hazards Not Classified

Label Elements

Symbol 

Signal Word Danger

Hazard Statements Harmful if swallowed
 May Damage fertility or the unborn child
 May cause damage to organs (kidneys)

Precautionary Statements Do not handle until all safety precautions have been read and understood
 Do not eat, drink or smoke when using this product
 Wash skin thoroughly after handling
 Wear personal protective equipment (PPE) as identified in Section 8.

Other Hazards Not Applicable

Section 3. Composition / Information on Ingredients

Hazardous Product: Mixture

Chemical Name	Ethylene Glycol	Sodium Tetraborate Pentahydrate	H ₂ O
Common Name	Antifreeze		Water
CAS Registry #	107-21-1	12179-04-3	7732-18-5
Concentration	46-99%	0.1 - 1%	0 – 50%

Section 4. First Aid Measures

Route of Exposure

Inhalation:	Move affected person to fresh air and keep warm and at rest. Loosen tight clothing such as collar, tie or belt. If breathing becomes difficult, properly trained personnel can assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing continues.
Skin Contact:	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist seek medical attention. Wash contaminated clothing before re-use.
Eye Contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. If symptoms persist or there is visual difficulty seek medical attention.
Ingestion:	Seek medical attention immediately. Do not give anything by mouth. Do not induce vomiting.

Most Important Systems and Effects

Inhalation:	May Cause: Coughing, Chest Tightness, Light Headedness
Skin Contact:	May Cause: Temporary Skin Irritation
Eye Contact:	May Cause: Irritation or Redness in Eyes, Loss of Vision
Ingestion:	May Cause: Loss of consciousness, Abdominal pain, Death

Immediate Medical Attention and Special Treatment

Note for the Doctor	The signs and symptoms in ethylene glycol poisoning are those of metabolic acidosis, central nervous system depression and kidney injury. Treatment with ethanol to inhibit the metabolism of glycol to oxalate.
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Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media	Extinguish with foam, carbon dioxide, dry chemical or water fog.
Unsuitable Extinguishing Media	Not Applicable.

Specific Hazards Arising from the Hazardous Product

Specific hazards	Not Applicable
Hazardous combustion products	Toxic Vapours

Advice for Firefighters

Protective actions during firefighting	Avoid breathing gases or vapours. Evacuate the area. Ventilate closed spaces before entering them.
Special protective equipment for firefighters	Not Applicable.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions	Keep unnecessary and unprotected personnel away from spillage. Wear protective clothing as described in Section 8. Follow safe handling as described in Section 7.
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Methods and Material for Containment and Cleaning Up

Methods for cleaning up	For small spillages: Dilute with water and mop up. For large spillages: Move containers from the spill area, approach from upwind. Prevent entry into sewer or open water. Contain and collect spillage with non-combustible absorbent material and dispose according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.
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Methods for containment Prevent spreading over a wide area with containment or barriers. Do not let product enter drains. If environmental pollution occurs (sewers, waterways, soil or air) inform the relevant authorities.

Section 7. Handling and Storage

Precautions for Safe Handling

Usage precautions Wear PPE as described in Section 8. Wash face and hands before eating, drinking, or smoking. Do not ingest. Avoiding breathing vapours. Empty containers retain product residue and can be hazardous.

Conditions for Safe Storage, Including any Incompatibilities

Storage Precautions Keep storage area well ventilated. Store in accordance with local regulations. Containers of this material may be hazardous when emptied due to product residue. All hazard precautions must be observed with empty containers. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Occupational Exposure Limits Not Applicable

Appropriate Engineering Controls

Engineering controls Provide exhaust ventilation or other engineering controls to keep concentration of vapour below the recommended exposure limits. An eye wash station and safety shower should be located near the work station.

Individual Protection Measures

General All personal protective equipment (PPE) should comply with Canada OH&S Regulations (SOR/86-304)

Eye/Face protection Recommended: Safety glasses equipped with side shields. Where splash hazards exist use a face shield as well. Have suitable eye wash water available.

Hand protection Recommended: Heavy Nitrile or Neoprene gloves if frequent or prolonged exposure is expected.

Body protection Recommended: Avoid prolonged / repeated skin contact. If splashing or spraying is expected chemical-resistant clothing should be worn.

Respiratory protection Respiratory protection is not anticipated under normal use. If elevated airborne concentrations are anticipated, a NIOSH approved organic vapour respirator equipped with a dust prefilter should be used.

Section 9. Physical and Chemical Properties

Physical Properties

Physical State Liquid

Colour Green

Odour Mild Odour

Odour threshold Not Applicable

Chemical Properties

pH 7

Melting point / freezing point Not Available

Flash point Not Available

Evaporation rate 0.01

Flammability (solid; gas) Not Available

Lower Explosive Limit Not Available

Upper Explosive Limit Not Available

Vapour pressure 0.06 mm Hg @ 25°C

Vapour density 2.1

Relative density 1.06 – 1.09

Solubility	Soluble in water, methanol, diethyl ether
Partition coefficient: n-octanol/water	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available

Section 10. Stability and Reactivity

Reactivity	Not Available
Stability	Stable
Possibility of hazardous reactions	No reactions under normal conditions and use
Conditions to avoid	Not Applicable
Incompatible Materials	Oxidizing agents, strong acids, strong bases.
Hazardous decomposition products	Not Available

Section 11. Toxicological Information

Routes of Exposure	Ingestion, Inhalation, Skin/Eye Contact
<u>Symptoms</u>	
Physical	Skin/Eye contact may cause irritation or redness with short term exposure Ingestion may cause discomfort.
Chemical	No Available Data
Toxicological	Ingestion may cause poisoning leading to death.
<u>Exposure Effects</u>	
Delayed Effects	No Available Data
Chronic Effects	Prolonged / repeated exposure is toxic to lungs, digestive system, skin, and eyes
<u>Acute Toxicity Estimates (ATE)</u>	
ATE oral (mg/kg)	LD50(rat) > 5000 ppm (24 hours)
ATE dermal (mg/kg)	No Available Data
ATE inhalation (mg/L)	No Available Data

Section 12. Ecological Information

No Available Data.

Section 13. Disposal Considerations

Follow local regulations for hazardous waste disposal.

Section 14. Transport Information

Not Available.

Section 15. Regulatory Information

Not Available.

Section 16. Other Information

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SDS Number(s) 9000 / 9050

Disclaimer: The information contained herein is accurate to the best of our knowledge.