

### Section 1. Identification

#### Product Identifier

Product Name	Heavy Duty Antifreeze
Common Name	Ethylene Glycol
CAS Number	107-21-1
Product Code(s)	9100

#### Recommended or Restricted Uses

Recommended Use	Antifreeze / Coolant
Restricted Use	Not Applicable

#### Canadian Supplier

Supplier	49 North Lubricants 6611 45 <sup>th</sup> Street, Leduc, Alberta T9E 7E3 Canada Tel: (780) 986-9260 Fax: (780) 986-9650
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#### Emergency Telephone Number


Emergency Telephone	CHEMTREC: 1-800-424-9300
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### 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	Warning
Hazard Statements	Harmful if swallowed May cause damage to organs through prolonged or repeated exposure May cause drowsiness or dizziness
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	Corrosion Inhibitor
Common Name	Antifreeze	
CAS Registry #	107-21-1	Mixture
Concentration	95 - 99%	1 - 4%

## 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. If individual is drowsy or unconscious place on the left side with head down. Do not leave individual unattended.

### 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
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material may pose the same hazard as the spilled product.

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	Not Applicable
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)	LD50(rabbit) = 9530 uL/kg
ATE inhalation (mg/L)	LD50(rat) = 10.9 mg/L (1 hour)

### 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) 9100

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