

MATERIAL SAFETY DATA SHEET

Superior Lubricants Co., Inc.
32 Ward Road
North Tonawanda, New York 14120
(716) 693-6050
(800) 638-1887

HEALTH EMERGENCIES:
Call POISON CONTROL CENTER
(716) 878-7654

Product Name: See Section I
Issue Date: 1/30/92

I. MATERIAL IDENTIFICATION

Name: Antifreeze Coolant
Synonyms: Ethylene Glycol, Permanent Antifreeze, Engine Coolant
Chemical Family: Glycols
DOT Shipping Name: Ethylene glycol
DOT Hazard Classification: Not regulated

II. HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS NO.</u>	<u>%</u>	<u>PEL/TLV-SOURCE</u>
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antifreeze contains ethylene glycol	107-21-1	100 less than 95	not established 50 ppm ceiling OSHA
phosphates	7732-18-5	less than 2	not established
proprietary additives – water	7732-18-5	less than 3	not established
diethylene glycol	111-46-6		

III. PHYSICAL DATA

Stability: Stable
Conditions to Avoid: N/A
Chemical Incompatibility: N/A
Corrosive to Metal: No
Hazardous Decomposition Products: N/A
Oxidizer: No
Hazardous Polymerization: Will not occur
Boiling/Melting Point @ 760° mm HG: 330° F/NA
PH: 9.0 - 11.0
Vapor Pressure mm HG @ 20°C: 18
Vapor Density (air = 1): Less than 2
Specific Gravity or Bulk Density: 1.135
Solubility in Water: Infinite
Appearance: Green dyed liquid
Odor: Glycol
Intensity: Faint

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (test method): 250°F c.o.c.
Autoignition Temperature: 775° F
Flammability Limits in Air (% by vol.): Lower: N/A Upper: N/A
Extinguishing Medium: Use water fog, alcohol foam, CO₂, or dry chemical extinguishing media. NFPA:
1/1/0
Special Firefighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing vapors or fumes or heated or burning product.
Unusual Fire and Explosion Hazard: vapors from heated (above flash point) product may travel to source of ignition and flash back.

V. HEALTH DATA

Toxicology Test Data:

antifreeze ethylene glycol
rat, acute oral LD50
rabbit, primary skin irritant 1.88/8.0
rabbit, primary eye irritant 2.0/110
human, reported lethal dose

RESULT:

13.8 ml/kg practically
non-toxic
mildly irritating
practically non-irritating
104itating 100 c.c.

Effects of Overexposure: Contact with this product causes eye and skin irritation. Inhalation of vapors or mists may be irritating to the respiratory tract.

Ingestion of about 100 ml of ethylene glycol may result in acute poisoning, which is characterized by severe abdominal disturbances, central nervous system depression and possible respiratory or renal failure.

Prolonged inhalation of vapors may cause unconsciousness and increased lymphocyte counts.

Chronic overexposure may lead to liver degeneration and severe renal damage.

Animal studies indicate that ethylene glycol may be embryotoxic and teratogenic by the oral and inhalation routes.

VI. FIRST AID PROCEDURES

Eyes: Immediately wash with running water for 15 minutes. If irritation develops, consult a physician.

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, consult a physician.

Ingestion: If swallowed, dilute with water and immediately induce vomiting. Never give fluids to or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

Inhalation: Move victim to fresh air, aid in breathing if necessary, and get immediate medical attention.

VII. SPECIAL PROTECTION

Respiration Protection: If vapors or mists are generated, wear an approved NIOSH/MSHA organic vapor/mist respirator.

Eye Protection: If splashing can occur, use chemical goggles or a full face shield.

Protective Clothing: Use rubber gloves, apron and shoes. Remove contaminated clothing immediately and launder before reuse.

Ventilation: Local exhaust to control vapors and mists.

Other: N/A

VIII. ENVIRONMENTAL DATA

Environmental Toxicity Data: Aquatic toxicity rating: Bluegill (*Lepomis macrochirus*) 96 hour static.

LD50: 1400 mg/1 significant hazard.

Spill and Leak Procedure: Spill should be contained, solidified and placed in suitable containers for disposal. This material is not regulated under RCRA or CERCLA (Superfund). Clean up quickly as spills are a slipping hazard.

Hazardous Substance Superfund: No RQ (lbs.)

Waste Disposal Method: Incinerate or bury in a licensed facility. Do not discharge into waterways. Discharge in sewer systems with prior approval is acceptable.

Hazard Waste 40CFR261: No hazardous waste number.

Container Disposal: Dispose of in licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

IX. SHIPPING DATA

DOT Proper Shipping Name: None

Hazardous Substance: No

Reportable Quantity: None

DOT Hazard Classification Primary: None Secondary: None

DOT Label Required: None

DOT Placards Required: None

Poison Constituent: N/A

Bill of Lading Description: Antifreeze preparations, proprietary (ethylene glycol base)

CC NO: 332 UN/NA Code: None

X. DISCLAIMER

The information contained within this document is believed to be accurate as of the date issued. Because product is beyond our control, no warranty is given expressed or implied. The information is furnished on the condition that the person(s) receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.