

Section 1 - Chemical Product and Company Identification



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PRODUCT NAME: GLY-KOOL 39
 PRODUCT NUMBER:..... 1781000-03
 CHEMICAL FAMILY: Inhibited Industrial Anti-Freeze
 CHEMICAL FORMULA: Mixture
 UN NUMBER: Not applicable

Section 2 – Hazard Identification

Signal Word: **Warning**

GHS Pictogram(s)



Hazard Statement: H301: Toxic if swallowed H315 H320: Causes skin and eye irritation H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statement P280: Wear protective gloves/protective clothing/eye protection/face protection
 P262: Do not get in eyes, on skin, or on clothing P102: Keep out of reach of children

GHS Health Classification: Skin Irritation (2) Eye Irritation (2B) Acute Toxicity Oral (2)

GHS Physical Classification: Physical Hazards Not Otherwise Classified (1)

GHS Environmental Class:..... Unknown aquatic toxicity levels. No data available.

Health	3
Flammability	1
Reactivity	0
Personal Protection	C

Primary Entry Routes: Skin and eye contact.

ACUTE EFFECTS:

Inhalation: May cause irritation of the respiratory tract. Prolonged breathing of vapors may cause headache, tiredness, irritation of nose and eyes, or possible dizziness.

Eye: Causes eye irritation with redness and possible ulceration of eyes and eyelids.

Skin: Prolonged dermal contact may produce itching, dry skin, or possible mild irritation.

Ingestion:..... May cause irritation of the digestive tract. Repeated or prolonged exposure can lead to organ damage.

Carcinogenicity: This product contains no known or suspected carcinogens.

Chronic Effects: Overexposure can produce liver abnormalities, kidney damage and central nervous system effects. May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic). No human data has been reported.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Ethylene glycol	95-100	107-21-1

Section 4 - First Aid Measures

Inhalation: Remove subject to fresh air. Have them cough and attempt to clear any material from the breathing tract. If breathing becomes difficult, get medical attention.

Eye Contact:..... Flush eyes with water for at least 15 minutes holding eyelids wide open. Get immediate medical attention.

Skin Contact:..... Flush with water and wash with soap and water. Remove contaminated clothing and wash well before reuse. If irritation develops, seek medical attention.

Ingestion:..... If subject is conscious, give large amounts of water before any attempt to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Section 5 – Fire-Fighting Measures

Flash Point (F): 260°F

Extinguishing Media: SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Unusual Fire/Explosion Hazard: Under normal conditions this product will not support combustion or accelerate a fire. However, if contact with other chemicals or electrical services occurs during a fire, hazardous gases may be produced.

Fire Fighting Instructions:..... If possible remove container from fire area. Apply cooling water to container side. Do not release run off from fire control to the sewer or waterway.

Fire Fighting Equipment: Self-contained breathing apparatus with full face piece.

Section 6 – Accidental Release Measures

Spills and Releases: Possible slippery conditions. Eliminate all ignition sources. Contain spill and collect into suitable containers for disposal. Spilled material MAY NOT be flushed into sewers or outfalls.

Regulatory Requirements:..... Follow All OSHA Regulations and Standards (29 CFR 1910.120)

Section 7 – Handling and Storage

Handling Precautions: Wear hand and foot protection when moving heavy drums. Protect containers against physical damage.

Storage Requirements:..... Store in a cool, dark well-ventilated area away from direct sunlight and other sources of radiant heat. Keep containers tightly closed when not in use.

Regulatory Requirements:..... Follow All OSHA Regulations and Standards (29 CFR 1910.120)

Section 8 – Exposure Controls / Personal Protection

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH-TLV
Ethylene glycol	125 mg/m3	125 mg/m3

Ventilation:..... Use in well-ventilated area with local exhaust.

Respiratory Protection: Not required for ordinary use. During emergency conditions or if a spill occurs, an appropriate OSHA approved air purifying respirator should be worn.

Protective Clothing/Equipment :Safety glasses with side shields, non-slip vinyl or rubber gloves, protective footwear and an apron should be worn when handling drums.

Safety Stations:..... Safety showers and eyewash stations should be available in work areas.

Contaminated Equipment: Wash all contaminated equipment and clothing before reuse.

Comments:.....This product contains ethylene glycol. Ethylene glycol is moderately toxic to humans. This product also contains sodium nitrite, borax and sodium benzotriazole which act as corrosion inhibitors for ferrous and copper based metals. Never eat, drink or smoke during use.

Section 9 – Physical and Chemical Properties

Physical State:..... Liquid

Water Solubility:.....Miscible

Appearance & Odor: Light pink viscous liquid with no odor

Boiling Point: 388°F

Vapor Pressure 0.06@68°F

Freezing Point: 2°F

Vapor Density (Air=1):..... 2.14

% Volatile:Nil

Density (lbs/gal):..... 9.2727

Evaporation Rate:Nil

Specific Gravity: 1.108

pH:.....No data available

Section 10 – Stability and Reactivity

Stability: Stable under normal conditions.
Polymerization:..... Hazardous polymerization will not occur.
Chemical Incompatibilities: Strong oxidizing agents, strong acids, strong bases.
Conditions to Avoid:..... Excessive heat for prolonged periods of time.

Section 11- Toxicological Information

Irritation: Eyes and skin. Inhalation and ingestion.
Acute Effects:..... Causes irritation of eyes, skin, respiratory and gastrointestinal tissues. Harmful if swallowed.
Chronic Effects: Overexposure can produce liver abnormalities, kidney damage and central nervous system effects. May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic). No human data has been reported.
Carcinogenicity: This product contains no known or suspected carcinogens.
Acute Inhalation Effects: May cause irritation of the respiratory tract. Prolonged breathing of vapors may cause headache, tiredness, irritation of nose and eyes, or possible dizziness.
Lethal Dosage (LD50).....LD50 (oral-rat) = 4700 mg/kg for ethylene glycol.
 LD50 (human) = 1.4 ml/kg for ethylene glycol (moderately toxic)

Section 12 – Ecological Information

Ecotoxicity: No data available
Environmental Fate:..... No data available

Section 13 – Disposal Considerations

Disposal: Consult Federal, State and Local regulations pertaining to waste disposal.
Container Cleaning/Disposal ... Triple rinse empty containers before offering for disposal or salvage. Never reuse empty chemical containers.

Section 14 - Transportation Information

DOT Transportation Data

Shipping Name:..... Not regulated by DOT
Contains :.....Not applicable
Hazard Class:..... Not applicable
ID No. / UN Code: Not applicable
Packaging Group: Not applicable
Label:..... Not regulated by DOT
Reportable Quantity: 5000 lbs.
Emergency Response Guide #: . Not applicable

Section 15 – Regulatory Information

EPA Regulations

RCRA Hazardous Waste Number:.....Acute health hazard waste
RCRA Hazardous Waste Classification:Acute: Causes irritation of eyes, skin, respiratory and gastrointestinal tissues. Hazardous in case of ingestion.
 Chronic: Overexposure can produce liver abnormalities, kidney damage, and central nervous system effects.
CERCLA Hazardous Substance:.....Ethylene glycol is listed as a CERCLA hazardous substance by the EPA.
CERCLA Reportable Quantity (RQ):5000 lbs.
SARA 311/312:.....Immediate (acute) health hazard.
SARA Toxic Chemical:.....Ethylene glycol
SARA EHS.....No components of this product are listed as an Extremely Hazardous Substance.
TSCAAll components of this product are listed on the United States Toxic Substances Control Act (TSCA) Inventory.

OSHA Regulations

Air Contaminant :.....Not considered hazardous under The Clean Air Act.
OSHA Criteria:.....Not applicable.

Section 16 – Other Information

Disclaimer..... THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE.