

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Ethylene Glycol Inhibited ACS Grade

**Synonyms:** ETHYLENE GLYCOL, Ethane-1,2-diol, 1,2-ethanediol, glycol, monoethylene glycol

**CAS Number:** 107-21-1

**Grade/Purity:** Laboratory Grade

**Product Type:** Glycols

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

**2. HAZARDS IDENTIFICATION**

**Signal Word:** Warning

**GHS Pictograms:**



**Hazard Statements:**

H302	Harmful if swallowed [Warning Acute toxicity, oral]
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**Precautionary Statements:**

P264,	P270, P301+P317, P330, and P501
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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPONENT	CAS #	FORMULA	MOLECULAR WEIGHT	CONCENTRATION
Ethylene Glycol Inhibited	107-21-1	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	62.07 g/mol	99.0%

#### 4. FIRST-AID MEASURES

<b>Eyes</b>	EYES: First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.
<b>Skin</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Inhalation</b>	INHALATION: IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing.
<b>Ingestion</b>	INGESTION: DO NOT INDUCE VOMITING. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physician. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. IMMEDIATELY transport the victim to a hospital. (NTP, 1992)

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Media</b>	Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances.
<b>Unsuitable Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Protective Equipment</b>	Wear self-contained breathing apparatus and full protective clothing.
<b>Combustion Products</b>	May include carbon oxides and other toxic fumes. See Section 10.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental</b>	Prevent leakage or spillage from entering drains, sewers, or waterways.
<b>Containment &amp; Cleanup</b>	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

#### 7. HANDLING AND STORAGE

<b>Safe Handling</b>	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
<b>Safe Storage</b>	Store in a cool, dry, well-ventilated area. Keep away from: Mixing ETHYLENE GLYCOL in equal molar portions with any of the following substances in a closed cont. Keep containers tightly closed.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

AGENCY	EXPOSURE LIMIT
OSHA PEL	none See Appendix G
NIOSH REL	See Appendix D
IDLH	N.D.

<b>Eyes</b>	Wear chemical safety goggles or face shield.
<b>Skin</b>	Wear chemical-resistant gloves and protective clothing.
<b>Inhalation</b>	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless viscous liquid
Odor	Odorless
pH	Not Available
Melting Point	-13°C (9°F)
Boiling Point	197°C (387°F)
Flash Point	111°C (232°F)
Vapor Pressure	0.06 mmHg at 68 °F ; 1 mmHg at 127.4 °F (NTP, 1992)
Specific Gravity	1.113
Solubility	Fully miscible with water, polar organic solvents
Molecular Formula	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>
Molecular Weight	62.07 g/mol

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Mixing ETHYLENE GLYCOL in equal molar portions with any of the following substances in a closed container caused the temperature and pressure to increase: chlorosulfonic acid, oleum, sulfuric acid, [N
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	Daphnia EC50: EC50; Species: Daphnia magna (Water Flea) age <24 hr neonate; Conditions: freshwater, static, 21 °C, pH 7.6; Concentration: 782.7 mM for 24 hr; Effect: intoxication, immobilization [PubChem]
Persistence	Not Available
Bioaccumulation	Not Available
Mobility in Soil	Not Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

#### 14. TRANSPORT INFORMATION

US DOT	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA/ICAO	Not regulated as dangerous goods.
Marine Pollutant	No
Note	Hazard communication note: Product may meet GHS hazard criteria for workplace handling, while not being regulated as dangerous goods for transport.

#### 15. REGULATORY INFORMATION

TSCA Inventory	All ingredients are listed on the TSCA Active inventory.
California Prop 65	Refer to California Proposition 65 list for current status.
SARA 311/312	See Section 2 for hazard classifications.
SARA 313	Refer to EPA Toxic Release Inventory for current listing status.

#### 16. OTHER INFORMATION

**Revision Date:** 02/10/2026

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