

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ethylene Glycol Semiconductor Grade  
**Synonyms:** ethane-1,2-diol  
**CAS Number:** 107-21-1  
**Grade/Purity:** Semiconductor 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                                              |
| H373 | May cause damage to organs through prolonged or repeated exposure |

**Precautionary Statements:**

|      |                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------|
| P260 | Do not breathe dust, fume, gas, mist, vapours or spray.                                                        |
| P264 | Wash hands and face thoroughly after handling.                                                                 |
| P270 | Do not eat, drink or smoke when using this product.                                                            |
| P314 | Get medical advice or attention if you feel unwell.                                                            |
| P501 | Dispose of contents and container in accordance with local, regional, national, and international regulations. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT       | % MIN | % MAX  | CAS #    | EINECS# / ELINCS# | FORMULA | MOLECULAR WEIGHT |
|-----------------|-------|--------|----------|-------------------|---------|------------------|
| Ethylene Glycol | 99.43 | 100.43 | 107-21-1 | 203-473-3         | C2H6O2  | 62.07 g/mol      |

## 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 incompatible materials (see Section 10). 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:**

No established occupational exposure limits.

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| <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. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| <b>Appearance</b>               | Clear, colorless, transparent liquid                |
| <b>Odor</b>                     | Odorless                                            |
| <b>Particle Characteristics</b> | Not Applicable                                      |
| <b>pH</b>                       | Not Available                                       |
| <b>Melting Point</b>            | 9 °F (NTP, 1992)                                    |
| <b>Boiling Point</b>            | 387.7 °F at 760 mmHg (NTP, 1992)                    |
| <b>Flash Point</b>              | 232 °F (NTP, 1992)                                  |
| <b>Vapor Pressure</b>           | 0.06 mmHg at 68 °F ; 1 mmHg at 127.4 °F (NTP, 1992) |
| <b>Specific Gravity</b>         | 1.113                                               |

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Solubility</b>        | Highly miscible with water, polar organic solvents |
| <b>Molecular Formula</b> | C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>       |
| <b>Molecular Weight</b>  | 62.07 g/mol                                        |

## 10. STABILITY AND REACTIVITY

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| <b>Chemical Stability</b>     | Stable under recommended storage conditions.                                  |
| <b>Hazardous Reactions</b>    | None under normal processing conditions.                                      |
| <b>Conditions to Avoid</b>    | Heat, sparks, open flame, and incompatible materials.                         |
| <b>Incompatible Materials</b> | Strong oxidizing agents, strong acids, strong bases.                          |
| <b>Decomposition Products</b> | May produce carbon oxides and other toxic fumes when heated to decomposition. |

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|             |                           |
|-------------|---------------------------|
| <b>IARC</b> | Not listed as carcinogen. |
| <b>NTP</b>  | Not listed as carcinogen. |
| <b>OSHA</b> | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                         |                                                                     |
|-------------------------|---------------------------------------------------------------------|
| <b>Ecotoxicity</b>      | Daphnia EC50: 10000 mg/L (48 h, Daphnia magna (freshwater, static)) |
| <b>Persistence</b>      | Not persistent; low bioconcentration, not expected to volatilize    |
| <b>Bioaccumulation</b>  | log Kow -1.36                                                       |
| <b>Mobility in Soil</b> | Very high mobility in soil (estimated Koc ≈ 0.2)                    |

## 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

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

## 15. REGULATORY INFORMATION

|                           |                                           |
|---------------------------|-------------------------------------------|
| <b>TSCA Inventory</b>     | Listed.                                   |
| <b>SARA 313 (TRI)</b>     | Listed (de minimis 1.0%).                 |
| <b>California Prop 65</b> | Listed (developmental).                   |
| <b>SARA 311/312</b>       | See Section 2 for hazard classifications. |

Data retrieved as of — TSCA Inventory: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

## 16. OTHER INFORMATION

**Revision Date:** 08/03/2026

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