

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ethylene Glycol Semiconductor Grade  
**Synonyms:** ethane-1,2-diol  
**CAS Number:** 107-21-1  
**Grade/Purity:** Semiconductor  
**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:** Not Classified

**GHS Pictograms:**

None assigned

**Hazard Statements:**

|                |  |
|----------------|--|
| Not Classified | Not classified as hazardous under GHS based on available data. |
|----------------|--|

**Precautionary Statements:**

|                |  |
|----------------|--|
| Not Classified | No specific GHS precautionary statements required. |
|----------------|--|

### 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>       | Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.                             |
| <b>Skin</b>       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.                                |
| <b>Inhalation</b> | Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| <b>Ingestion</b>  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.                             |

### 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. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                   |  |
|-----------------------------------|--|
| <b>Appearance</b>                 | Clear, colorless, transparent liquid               |
| <b>Odor</b>                       | Characteristic                                     |
| <b>Median Particle Size</b>       | Not Applicable                                     |
| <b>Particle Size Distribution</b> | Not Applicable                                     |
| <b>Particle Shape</b>             | Not Applicable                                     |
| <b>Surface Area</b>               | Not Applicable                                     |
| <b>Dustiness</b>                  | Not Applicable                                     |
| <b>Hygroscopicity</b>             | Not Applicable                                     |
| <b>pH</b>                         | Not Available                                      |
| <b>Melting Point</b>              | -13°C (8.6°F)                                      |
| <b>Boiling Point</b>              | 197°C (386.6°F)                                    |
| <b>Flash Point</b>                | 111°C (231.8°F)                                    |
| <b>Vapor Pressure</b>             | Not Available                                      |
| <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>      | Data not available. Avoid release to the environment. |
| <b>Persistence</b>      | Not Available   |
| <b>Bioaccumulation</b>  | Not Available   |
| <b>Mobility in Soil</b> | 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

|                         |                                   |
|-------------------------|-----------------------------------|
| <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                                |

## 15. REGULATORY INFORMATION

**Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.**

|                     |   |
|---------------------|---|
| <b>SARA 311/312</b> | See Section 2 for hazard classifications. |
|---------------------|---|

## 16. OTHER INFORMATION

**Revision Date:** 05/28/2026

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