

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Glycol Ether EE ACS

**Synonyms:** 2-ethoxyethanol, Glycol Ether EE

**CAS Number:** 110-80-5

**Grade/Purity:** ACS Reagent 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:** Danger

**GHS Pictograms:**



**Hazard Statements:**

|        |                                                    |
|--------|----------------------------------------------------|
| H226   | Flammable liquid and vapour                        |
| H302   | Harmful if swallowed                               |
| H331   | Toxic if inhaled                                   |
| H360FD | May damage fertility. May damage the unborn child. |

**Precautionary Statements:**

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| P201           | Obtain special instructions before use.                                                                |
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         |
| P233           | Keep container tightly closed.                                                                         |
| P240           | Ground and bond container and receiving equipment.                                                     |
| P241           | Use explosion-proof electrical, ventilating, and lighting equipment.                                   |
| P242           | Use non-sparking tools.                                                                                |
| P243           | Take precautionary measures against static discharge.                                                  |
| P261           | Avoid breathing 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.                                                    |
| P271           | Use only outdoors or in a well-ventilated area.                                                        |
| P280           | Wear protective gloves, protective clothing, and eye/face protection.                                  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.                                       |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                             |
| P310           | Immediately call a POISON CENTER or doctor.                                                            |

|           |                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------|
| P308+P313 | IF exposed or concerned: Get medical advice or attention.                                                      |
| P321      | Specific treatment (see first-aid information on this label).                                                  |
| P330      | Rinse mouth.                                                                                                   |
| P370+P378 | In case of fire: Use appropriate media to extinguish.                                                          |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.                                               |
| P403+P235 | Store in a well-ventilated place. Keep cool.                                                                   |
| P405      | Store locked up.                                                                                               |
| 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 |
|-----------------|-------|-------|----------|-------------------|---------|------------------|
| Glycol Ether EE | 99    | 100   | 111-76-2 |                   | C6H14O2 | 118.17 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>       | Alcohol-resistant foam, CO2, dry chemical powder. Water spray may be used to cool fire-exposed containers. |
| <b>Unsuitable Media</b>     | Do not use a solid water stream — 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 away from heat, sparks, and open flame. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. Ground and bond containers when transferring material. |

### 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 a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection. |

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 liquid                               |
| <b>Odor</b>                     | Sweet, pleasant, ether-like odor                      |
| <b>Particle Characteristics</b> | Not Applicable                                        |
| <b>pH</b>                       | Not Available                                         |
| <b>Melting Point</b>            | -94 °F (NTP, 1992)                                    |
| <b>Boiling Point</b>            | 275 °F at 760 mmHg (NTP, 1992)                        |
| <b>Flash Point</b>              | 105 °F (NTP, 1992)                                    |
| <b>Vapor Pressure</b>           | 3.8 mmHg at 68 °F (NTP, 1992)                         |
| <b>Specific Gravity</b>         | 0.895                                                 |
| <b>Solubility</b>               | Soluble in water, alcohols, and many organic solvents |
| <b>Molecular Formula</b>        | C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>         |
| <b>Molecular Weight</b>         | 90.12 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, sources of ignition, heat.                           |
| <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: 4000 mg/L (Artemia salina (brine shrimp; crustacean, not Daphnia); exposure not stated in source); Fish LC50: > 10000 mg/L (96 h, Lepomis macrochirus (bluegill)) |
| <b>Persistence</b>      | Readily biodegradable (76% ThOD in 2 wk, MITI)                                                                                                                                  |
| <b>Bioaccumulation</b>  | log Kow -0.32, BCF 3 (estimated; low)                                                                                                                                           |
| <b>Mobility in Soil</b> | Very high mobility in soil (estimated Koc 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

|                  |                                                    |
|------------------|----------------------------------------------------|
| US DOT           | UN1171, Ethylene glycol monoethyl ether, 3, PG III |
| IMDG             | UN1171, Ethylene glycol monoethyl ether, 3, PG III |
| IATA/ICAO        | UN1171, Ethylene glycol monoethyl ether, 3, PG III |
| Marine Pollutant | No                                                 |

#### 15. REGULATORY INFORMATION

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

Data retrieved as of — TSCA Inventory: 2026-09-02; SARA 313 (TRI): 2026-09-02; California Prop 65: 2026-09-02

#### 16. OTHER INFORMATION

**Revision Date:** 09/21/2026

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