

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ethylene Glycol 60/40

Synonyms: ethane-1,2-diol

CAS Number: 107-21-1

Grade/Purity: Technical

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

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

2. HAZARDS IDENTIFICATION

Signal Word: Warning

GHS Pictograms:



Hazard Statements:

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

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| P264, | P270, P301+P317, P330, and P501 |
|-------|---------------------------------|

3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT | % MIN | % MAX | CAS # | EINECS# / ELINCS# | FORMULA | MOLECULAR WEIGHT |
|-----------------|-------|-------|-----------|-------------------|--|------------------|
| Ethylene Glycol | 60 | 60 | 107-21-1 | 203-473-3 | C ₂ H ₆ O ₂ | 62.07 g/mol |
| Water | 40 | 40 | 7732-18-5 | 231-791-2 | H ₂ O | 18.02 g/mol |

4. FIRST-AID MEASURES

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| Eyes | 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. |
| Skin | Remove contaminated clothes. Rinse skin with plenty of water or shower. |
| Inhalation | 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. |
| Ingestion | 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

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| Suitable Media | Use water spray, alcohol-resistant foam, dry chemical, or CO ₂ . Use measures appropriate to local circumstances. |
| Unsuitable Media | Do not use a solid water stream as it may scatter and spread fire. |
| Protective Equipment | Wear self-contained breathing apparatus and full protective clothing. |
| Combustion Products | May include carbon oxides and other toxic fumes. See Section 10. |

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use. |
| Safe Storage | 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-----------------------------------|-------------------------------|
| Appearance | Colorless, viscous liquid |
| Odor | Characteristic |
| Median Particle Size | Not Applicable |
| Particle Size Distribution | Not Applicable |
| Particle Shape | Not Applicable |
| Surface Area | Not Applicable |
| Dustiness | Not Applicable |
| Hygroscopicity | Not Applicable |
| pH | Not Available |
| Melting Point | -13°C (8.6°F) |
| Boiling Point | 197°C (386.6°F) |
| Flash Point | Not Available |
| Vapor Pressure | Not Available |
| Specific Gravity | 1.08 |
| Solubility | Soluble in water and alcohols |

| | |
|-------------------|--|
| Molecular Formula | C ₂ H ₆ O ₂ |
| Molecular Weight | 62.07 g/mol |

10. STABILITY AND REACTIVITY

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| 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 | Strong oxidizing agents, strong acids, strong bases. |
| 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.

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

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Daphnia EC50: 10000 mg/L (48 h, Daphnia magna (freshwater, static)) |
| Persistence | Not persistent; low bioconcentration, not expected to volatilize |
| Bioaccumulation | log Kow -1.36 |
| Mobility in Soil | 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

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| 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

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| Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly. | |
| SARA 311/312 | See Section 2 for hazard classifications. |

16. OTHER INFORMATION

Revision Date: 07/01/2026

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