



SAFETY DATA SHEET (SDS / MSDS)

Ethylene glycol (MEG) | CAS No. 107-21-1 | Revision: 2026-09-22

SECTION 1: Identification

Product identifier: Ethylene glycol (MEG)

Synonyms: 1,2-Ethanediol; Monoethylene glycol **Formula:** C₂H₆O₂

CAS No.: 107-21-1 **EC No.:** 203-473-4 **Molecular weight:** 62.07 g/mol

Recommended use: Antifreeze/coolant, polyester fibre/resin, de-icing, heat-transfer fluid.

Supplier: Dongying Yuansheng Chemical Co., Ltd, Dongying, Shandong Province, P.R. China.

Emergency telephone: +86-546-XXXXXXX (business hours); for medical emergency contact local poison control centre.

SECTION 2: Hazard(s) identification

GHS classification: Acute Tox. 4 (oral).

Signal word: Warning.

Hazard statements: H302 Harmful if swallowed.

Precautionary statements: P264 Wash hands thoroughly after handling; P270 Do not eat, drink or smoke when using; P301+P312 IF SWALLOWED call POISON CENTER if unwell; P501 Dispose of contents/container to licensed waste.

Additional hazards: Harmful if swallowed (metabolizes to oxalic acid causing kidney damage). Low volatility; not a transport-regulated dangerous good.

SECTION 3: Composition / information on ingredients

Substance. The table below lists the hazardous component. 1,2-Ethanediol; Monoethylene glycol is the product itself.

Component	CAS No.	EC No.	Concentration (w/w)
Ethylene glycol (MEG)	107-21-1	203-473-4	Industrial grade

SECTION 4: First-aid measures

Inhalation: Move victim to fresh air; keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.

Skin contact: Take off contaminated clothing immediately. Rinse skin with plenty of water for at least 15 minutes. Seek medical attention immediately.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Seek medical attention immediately.

Ingestion: Rinse mouth. Do NOT induce vomiting. Give water/milk if conscious. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Most important symptoms/effects: Harmful if swallowed; may cause kidney damage, metabolic acidosis. Mild eye/skin irritant.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Product is non-flammable. Use water spray, dry chemical, CO₂ or foam for surrounding fires.

Hazardous combustion products: May release hazardous fumes on heating/fire (see Section 10).

Advice for fire-fighters: Wear SCBA and appropriate protective clothing. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions: Ensure adequate ventilation. Wear suitable PPE (Section 8). Avoid inhalation and contact with skin/eyes. Remove ignition sources if flammable.

Environmental precautions: Do not allow product to enter drains, surface water, groundwater or soil.

Methods for cleaning up: Ventilate the area. Absorb with inert material (sand, earth, vermiculite) or neutralize as appropriate. Collect in labelled, sealed containers for disposal. Wash remainder with water. Prevent entry into waterways.

SECTION 7: Handling and storage

Handling: Use only in well-ventilated areas. Do not breathe vapour/mist/dust. Wear PPE. Avoid contact with skin, eyes and clothing. Keep away from incompatible materials.

Storage: Store in tightly closed containers in a cool, dry, well-ventilated place. Keep away from direct sunlight and heat. Keep separated from oxidizers, acids/bases and incompatible materials.

SECTION 8: Exposure controls / personal protection

Occupational exposure limits: ACGIH TLV 25 ppm (ceiling, skin).

Engineering controls: Use local exhaust ventilation and/or process enclosure. Emergency eye-wash and safety shower must be available close to the work station.

Respiratory protection: Use approved respirator (organic-vapour / ABEK-P3 filter as appropriate; SCBA for high concentrations or enclosed spaces).

Hand protection: Chemical-resistant gloves (neoprene, PVC, nitrile or fluorinated rubber - check permeation data).

Eye protection: Tightly sealed chemical safety goggles; face shield when risk of splashing.

Skin and body protection: Acid/chemical-resistant protective suit, apron and boots.

Hygiene measures: Do not eat, drink or smoke during work. Wash hands before breaks and at end of work. Remove contaminated clothing.

SECTION 9: Physical and chemical properties

Appearance	Colourless viscous liquid	Odour	Odourless, sweet
Density (20°C)	1.11 g/cm ³	Melting point	-13 °C
Boiling point	197 °C	Flash point	111 °C
Solubility in water	Miscible	Vapour pressure	8 Pa (20°C)
Molecular weight	62.07 g/mol	Viscosity	~ 16 mPa·s

SECTION 10: Stability and reactivity

Reactivity / chemical stability: Stable under recommended storage and handling conditions.

Incompatible materials: Strong oxidizers, acids, bases..

Hazardous reactions: Reacts violently or releases dangerous products with the incompatible materials listed above. Do not mix without assessment.

Conditions to avoid: Heat, direct sunlight, moisture and contact with incompatible materials.

Hazardous decomposition products: Thermal decomposition may release toxic/corrosive fumes (e.g. oxides of carbon, nitrogen, sulfur, hydrogen halides).

SECTION 11: Toxicological information

Acute / chronic toxicity: Harmful if swallowed; may cause kidney damage, metabolic acidosis. Mild eye/skin irritant.

Routes of exposure: Inhalation, skin/eye contact, ingestion.

Other: See Section 2 for classification. Data above is indicative; refer to authoritative databases (e.g. ECHA, OECD SIDS) for exact values.

SECTION 12: Ecological information

Ecotoxicity: Low toxicity; biodegradable; may cause oxygen depletion in water at high concentrations.

Persistence / degradability: See product data. Do not allow undiluted product to reach groundwater, watercourses or sewage.

Other adverse effects: Avoid release to the environment. Dispose of in accordance with local/national regulations.

SECTION 13: Disposal considerations

Product: Dispose of as hazardous waste in accordance with local/national regulations. Do not discharge to sewer. Neutralize/treat as appropriate or hand over to a licensed hazardous-waste contractor.

Contaminated packaging: Dispose of as unused product. Empty containers must be properly drained and handed to an approved disposal/recycling contractor. Do not pressurise, cut, weld or braze used containers.

SECTION 14: Transport information

UN number: Not regulated.

Proper shipping name: Not dangerous goods.

Transport hazard class(es): Class -.

Packing group: -.

Packaging / labels: Pack in approved containers for the hazard class; apply required hazard labels.

Environmental hazards: Refer to classification (Sections 2, 12). ADR/RID/IMDG/IATA regulations apply.

Special precautions: Ensure containers are tightly closed and upright. Keep away from foodstuffs and incompatible materials.

SECTION 15: Regulatory information

National inventories: Listed in the China Inventory of Existing Chemical Substances (IECSC); EINECS/ELINCS as applicable.

Classification: Classified and labelled according to the UN GHS (Rev. 9) and PRC GB 30000 series / GB 13690; Work Safety Law of the PRC; Hazardous Chemicals Safety Management Regulations.

Chemical Safety Assessment: A Chemical Safety Assessment has not been performed for this product by the supplier.

SECTION 16: Other information

Revision date: 2026-09-22. **Version:** 1.0.

Abbreviations: CAS, EC, GHS, SDS/MSDS, LD50/LC50, PEL/TLV, SCBA, STOT, UN, IECSC, ADR, IMDG, IATA.

Disclaimer: The information in this SDS is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. It is intended only as a guide for safe handling, use, storage, transport and disposal. Users are responsible for applying this information in accordance with their specific conditions and for compliance with all applicable laws and regulations.