

MATERIAL SAFETY DATA SHEET**Product Name:** Ethylene glycol**CAS No.:** 107-21-1**Version:** 0**1. Identification**

Product Code : 90164, 90408
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4
Specific target organ toxicity - repeated exposure, Oral : Category 2

Label elements**Hazard symbol**

Signal word : Warning
Hazard statement : Harmful if swallowed.
May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.
Precautionary statement : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Other hazards which do not result in GHS classification : None.

3. Composition/information on ingredients

Ingredient	CAS No
Ethylene glycol	107-21-1

4. First Aid Measures**Description of first aid measures**

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

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- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Flush eyes with water as a precaution.
- Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated.
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

5. Fire fighting measures

- Extinguishing media**
- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Carbon oxides
- Advice for firefighters** : Wear self contained breathing apparatus for fir fighting if necessary
- Further information** : No data available

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

MATERIAL SAFETY DATA SHEET**Product Name:** Ethylene glycol**CAS No.:** 107-21-1**Version:** 0**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Hand protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection : impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Liquid.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : -13 °C
- Initial boiling point and boiling range** : 196 - 198 °C
- Flash Point** : 111 °C - closed cup
- Vapor pressure** : 0.11 h Pa at 20 °C

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Vapor density : 0.13 h Pa at 20 °C
Relative density : 2.14 - (Air = 1.0)
Solubility in water : 1.113 g/mL at 25 °C
Solubility (other) : No data available
Formula : C₂H₆O₂
Molecular Weight : 62.07 g/mol

10. Stability and Reactivity

Reactivity : No data available
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : No data available
Conditions to avoid : No data available
Incompatible materials : Strong acids, Strong oxidizing agents, Strong bases, Aldehydes, Aluminum
Hazardous decomposition products : No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity : LD50 Oral - Rat - 4.700 mg/kg
LD50 Dermal - Rabbit - 10.626 mg/kg
Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : Mild eye irritation - 24 h
Respiratory or skin sensitization : No data available
Germ cell mutagenicity : No data available
Carcinogenicity : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity : Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Specific target organ toxicity - single exposure : Inhalation - May cause respiratory irritation
Specific target organ toxicity - repeated exposure : Oral - May cause damage to organs through prolonged or repeated exposure. - Kidney
Aspiration hazard : No data available
Signs and Symptoms of Exposure : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

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investigated.

12. Ecological Information

- Toxicity** : Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 18.500 mg/l - 96 h
 LC50 - Leuciscus idus (Golden orfe) - > 10.000 mg/l - 48 h
 NOEC - Pimephales promelas (fathead minnow) - 32.000 mg/l - 7 d
 NOEC - Pimephales promelas (fathead minnow) - 39.140 mg/l - 96 h
 Toxicity to daphnia and other aquatic invertebrates
 EC50 - Daphnia magna (Water flea) - 74.000 mg/l - 24 h
- Persistence and degradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- Other adverse effects** : No data available.

13. Disposal consideration

- Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- Contaminated packaging** : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
 No Data Available.

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