

MATERIAL SAFETY DATA SHEET**Product Name:** Diethylene glycol**CAS No.:** 111-46-6**Version:** 0**1. Identification**

Product Code : 90153, 90392
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4

Specific target organ toxicity - repeated exposure : Category 2

Label elements**Hazard symbol****Signal word** : Warning**Hazard statement** : Harmful if swallowed.
May cause damage to organs through prolonged or repeated exposure.**Precautionary statement** : None.

Supplemental Hazard : None.

Statements

3. Composition/information on ingredients

Ingredient	CAS No
Diethylene glycol	111-46-6

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** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- 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** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed** : 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** : Copper oxides
- Advice for firefighters** : Wear self contained breathing apparatus for fire 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 vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- 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:** Diethylene glycol**CAS No.:** 111-46-6**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. hygroscopic Store under nitrogen. Heat sensitive.
Combustible liquids
- 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 : Face shield and safety glasses 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 : Complete suit protecting against chemicals, 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 : Colorless viscous liquid

Odor : No data available

pH : 5.0 - 8 at 500 g/l at 20 °C

Melting point/freezing point : -10 °C

Initial boiling point and boiling range : 245 °C

Flash Point : 143 °C

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Vapor pressure : 0.008 hPa at 25 °C
Vapor density : 3.66 - (Air = 1.0)
Relative density : 1.118 g/cm³ at 25 °C
Solubility in water : Completely miscible
Solubility (other) : No data available
Formula : C₄H₁₀O₃
Molecular Weight : 106.12 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 : Heating in air. Exposure to moisture
Incompatible materials : Strong oxidizing agents, Strong acids, Zinc
Hazardous decomposition products : No data available

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

Acute toxicity : LD50 Oral - Rat - 12.565 mg/kg
LD50 Oral - Human - 1.000 mg/kg
Remarks: Effects due to ingestion may include: Drowsiness
Gastrointestinal disturbance Liver disorders
Behavioral: Muscle weakness.

Skin corrosion/irritation : Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation : Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitization : Maximisation Test (GPMT) - Guinea pig
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity : No data available

Carcinogenicity : IARC: 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 : No data available

Specific target organ toxicity - single exposure : No data available

Specific target organ toxicity - repeated exposure : May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard : Oral - Kidney
Potential health effects : No data available
Inhalation : No data available
Ingestion : No data available
Skin : No data available
Eyes : No data available

12. Ecological Information

Toxicity : No data available
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 : Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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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