



Reliance Industries Ltd.

Material Safety Data Sheet

DI Ethylene Glycol

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: DI- ETHYLENE GLYCOL (DEG)

Synonyms:

- 2,2' oxydiethanol
- 2,2.' Dihydroxy Diethyl ether
- Bis (2-hydroxyethyl) ether
- 3-oxa - 1,5 - pentanediol

Company : Reliance Industries Limited,
Maker Chamber IV,
222 - Nariman Point,
MUMBAI – 400 021 - INDIA
Tel. # 00-91-22 – 2842384 / 2826070

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	Approx. concentration %	C.A.S. or U.N. Numbers	LD-50 (specify species and route)	LC-50 (specify species and tests)
Fire, Human Toxic, Reactive <u>NFPA Classification</u> Health 1 Flammability 1 Reactivity 0	99.9 %	111-46-6	14.8 g/kg Rat / Oral	>32000 ppm/96 hrs/mosquitofish /TL50/fresh water

SECTION 3 - HAZARDS IDENTIFICATION / EMERGENCY OVERVIEW

Appearance : Colorless Liquid.

Potential Health Effects:

- Eye : Causes eye irritation.
Skin : Causes slight skin irritation.
Ingestion : Causes systemic effects involving the CNS & the kidney.
Inhalation : At elevated temperatures, the vapors causes irritation in upper respiratory tract Irritation and may be absorbed and cause systemic toxicity involving the CNS, the liver and the Kidneys.



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SECTION 4 - FIRST AID MEASURES

- Eyes : Immediately flush eyes with plenty of water for at least 10 minutes, Get medical aid immediately.
- Skin : Flush the contaminated skin with water for at least 10 minutes. Use Soap if available. Remove contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
- Ingestion : Do not induce Vomiting. Give Water (0.25 L /0.5 PINT) to drink. Get medical aid immediately.
- Inhalation : Remove the affected person to fresh air. Obtain medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

- General Information** : Di ethylene glycol is not classified as flammable but will burn.
- Extinguishing Media** : For small fire use dry chemical powder, Carbon dioxide, Alcohol resistant foam, Water spray, sand . For large fire use alcohol resistant foam or water spray.
- Autoignition Temperature** : 225 deg C)

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- General Information** : Extinguish naked flame. Avoid sparks. Avoid contact with skin, eye and clothing. Avoid inhaling the vapor. Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks** : Stop discharge if possible, isolate. Absorb the liquid with sand., earth or sawdust. Shovel up and remove all material to a safe place. Flush the contaminated area with plenty of water.

SECTION 7 - HANDLING and STORAGE

- Handling** : Handle with proper PPEs. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
- Storage** : Normally stored at ambient temp under Inert atm. Store in a cool, dry, well-ventilated area



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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Open through flame arrester (e.g. Ventilation, Enclosed process)

Personal Protective Equipment:

- Eyes : Wear appropriate protective eyeglasses or chemical safety goggles.
- Skin : Wear Plastic / Rubber gloves to prevent skin exposure.
- Clothing : Wear appropriate protective clothing to prevent skin exposure.
- Respirators : Breathing Apparatus if required..

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State : Liquid
- Appearance : Colorless
- Odor : odorless
- Solubility : Completely Soluble in water.
- Bulk Density : 1.1185 (g/ml)
- Flash point : 152 deg C

SECTION 10 - STABILITY AND REACTIVITY

- Chemical Stability : Stable under normal temperatures and pressures.
- Conditions to Avoid : Incompatible materials like strong Oxidants and heat
- Incompatibilities with Other Materials : No.
- Hazardous Decomposition Products : Nil

SECTION 11 - TOXICOLOGICAL INFORMATION

- CAS# : 111-46-6
- LD50 : 14.8 g/kg.
- LC50 : >32000 ppm/96 hrs/mosquitofish/TL50/fresh water

SECTION 13 - DISPOSAL CONSIDERATIONS

Treatment in effluent treatment plant or incineration after collection in drums or dykes etc.

SECTION 14 - TRANSPORT INFORMATION

Observe all national, state and local environmental regulations.



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SECTION 15 - REGULATORY INFORMATION

Observe all national, state and local environmental regulations.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Reliance be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Reliance has been advised of the possibility of such damages

