



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	MPRL DEGSOL (DIETHYLENE GLYCOL)
CAS NO	111-46-6
Product Packaging:	Drums / Tankers
Product Use:	See DEG Application File
Formula:	CH ₂ OH-CH ₂ OCH ₂ -CH ₂ OH
Manufacturer:	M/s Mehta Petro-Refineries Ltd. Plot No. 1, Dewan & Sons Udyog, Village - Mahim, Taluka - Palghar, Dist - Palghar 401404.
Emergency Telephone Number:	+91-2525-254155
Fax	+91-2525-254502

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition

MPRL DEGSOL (Diethylene Glycol)	CAS NO.: 111-46-6	% by weight: 100
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Toxicological Data on Ingredients: Di Ethylene glycol: ORAL (LD50): Acute: 15600 mg/kg [Rat]

SECTION 3: HAZARD IDENTIFICATION

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: MUTAGENIC EFFECTS: TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver,



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs

SECTION 4: FIRST AID MEASURES

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label if applicable.

ACUTE EFFECTS

- SWALLOWED:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

- EYE:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

- SKIN:

No known effect on skin contact, rinse with water for a few minutes

- INHALED:

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

- CHRONIC EFFECTS:

Not Available.

SECTION 5: FIRE AND EXPLOSION DATA

Flash Point	145°C
Auto Ignition Temp	220°C

Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Material Safety Data Sheet

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Stop the leak. Limit spreading by using sand or soil. Provide for very good ventilation. Soak up small quantities of product which may have spread by using absorbent material (Rags, sawdust or other inert material) carrying later the contaminated material to a safe and ventilated area, outside working quarters.

If large quantities of product have spread, prevent it from flowing into drains. Collect it in traps for recovery. Intervene only after having worn suitable protective clothing.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Keep container closed and properly labelled. Store in a cool, dry, ventilated area. Protect the drums from physical damage.

DEG may be employed in the presence or absence of air, water and light with any of the common metals. It is practically non-flammable at normal room temperature. With proper controls, it should be kept neutral in pH.

STORAGE:

Keep containers / drums / barrels in a well ventilated, cool place away from direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

PERSONNEL PROTECTION:

Face mask equipped with filter for organic Vapours. Gloves, boots and overall with cap suitable to protect Head, Face and Neck. Operate only in well ventilated areas equipped with aspirators at ground level

NOTE:

Separate clothing for work from civil dresses. Wash frequently. Take care of personal Hygiene as better as possible. Appropriate wash apparatus and piping before maintenance.



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

CAS Number	111-46-6
Formula	CH ₂ OH-CH ₂ OCH ₂ -CH ₂ OH
Physical state at room temperature	Liquid
Appearance	Colorless
Odor	Odorless
Chromatographic Purity (by GC)	99%
pH	6-7
MEG	0.5-1%
TEG	0.5-1%
Chlorine	>>225 PPM
Melting Point	- 8°C
Boiling Point	230-240°C
Specific Gravity (20°C)	1.1153 - 1.1156
Water (by KFR)	0.5 - 0.8%
Flammability Limits (%)	LEL 3 UEL 7
Flash Point	152°C
Vapor Density (air=1)	3.6
Vapor Pressure (30°C)	0.01 mm Hg
Auto Ignition Temp	225°C
Solubility in water	Miscible with water

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

SECTION 11: TOXICITY INFORMATION

Exposure standards for Diethylene Glycol vapor or mist are:

Acute toxicity data:

Parameter	Route	Species	Values	Exposure period
LD50	Oral	Rat	15600 mg/kg	Not Applicable

Repeated dose toxicity: Chronic effects cause irritation

Sensitisation: May cause skin irritation.

CMR effects (carcinogenicity, mutagenicity, toxicity for reproduction): Not a CMR

Toxicokinetics, metabolism, distribution: NA.

Ensure adequate ventilation is maintained and exposure below the exposure standards. Local exhaust ventilation should be considered.

At all times wear all safety equipments such as gloves, goggles, overalls, etc. Avoid skin and eye contact and inhalation of vapour

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity data:

Parameter	Route	Species	Values	Exposure period
LC50	Inhalation	Daphnia magna	>10000 mg/L	24 Hours

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are toxic.

Special Remarks on the Products of Biodegradation: Not available



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

SECTION 13: DISPOSAL CONSIDERATIONS

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. We have no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in msds section.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION 15: OTHER REGULATORY INFORMATION

Other Classifications:

WHMIS (Canada): Hazardous Products Act and Controlled Products Regulations

DSCL (EEC): R22 Harmful if swallowed. S46 If swallowed, seek medical advice immediately and show the container or label.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: C

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Protective Equipment:

Lab coat and Splash goggles.



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

SECTION 16: OTHER INFORMATION

References: Not available.

Other Special Considerations: Not available.