

MATERIAL SAFETY DATA SHEET (MSDS) - Mono Ethylene Glycol

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Name: MONO ETHYLENE GLYCOL (MEG)

Synonyms:

- 1-2-Ethanediol,
- 1-2-Dihydroxyethane

COMPANY IDENTIFICATION

Supplier:

Pon Pure Chemicals Group

CHENNAI, TAMILNADU, INDIA

24 Hour Health Emergency

(91) 8939878447

(91) 9444038694

Transportation Emergency Phone

(91) 8939768680

Company Name	Place	EMERGENCY TELEPHONE NUMBER
Pon Pure Chemicals Group	India	Day Emergency - 044-26161803-26161809

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 NFPA Classification Health 1 Flammability 1 Reactivity 0	99.9 %	C.A.S .NO. 107 -21-1 U.N. NO. Not classified.	4 g/kg Rat /Oral	>100 ppm/48 hrs/shrimp / LC50 /saltwater

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 such as renal damage. It may cause effects similar to Alcoholic intoxication.

Inhalation : At elevated temperatures, MEG vapors may Cause respiratory tract

irritation.

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. If rapid recovery does not occur, obtain medical attention.

Notes to Physician: Treat by observation and supportive measures as indicated by the Patient's condition. The essentials of therapy are

- (1) Supportive treatment of respiratory distress and shock.
- (2) Correction of metabolic acidosis and hypocalcemia.
- (3) Rapid and sustained diuresis when possible with the use of hypertonic mannitol
- (4) Immediate peritoneal or hemodialysis
- (5) Thiamine and pyridoxine supplements
- (6) Intravenous administration of ethanol if the diagnosis is recognized within six hours after ingestion
- (7) Treatment of renal failure with dialysis if needed to keep the patient free from the signs and symptoms of uremia.

SECTION 5 - FIRE FIGHTING MEASURES

General Information	:	Mono 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 fog, sand . For large fire use alcohol resistant foam or water fog.
Auto ignition Temperature	:	413.0 deg C)

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information : Extinguish naked flame. Avoid contact with skin, eye and clothing. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks : Stop discharge if possible, isolate and absorb the liquid with sand, earth or sawdust. Shovel up and remove all material to a safe place for subsequent disposal by burning or with plenty of water, burying. Flush the contaminated area

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

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 : Not Required.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Appearance	:	Colorless
Odor	:	Slight Sweet
Solubility	:	Completely Soluble in water.
Bulk Density	:	1.115 (g/ml)
Flash point	:	116 ⁰ C

SECTION 10 - STABILITY AND REACTIVITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

CAS#	:	107-21-1
LD50	:	4 g/kg.
LC50	:	> 100 ppm /48 hrs/shrimp/LC-50/saltwater

12. ECOLOGICAL INFORMATION

Environmental-Fate:

When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. Standard dilution BOD5/TOD = 58% When released into the soil, this material is expected to readily biodegrade. This material is not expected to significantly bio-accumulate. This material has an estimated bio-concentration factor (BCF) of less than 100.

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.

SECTION 15 - REGULATORY INFORMATION

Observe all national, state and local environmental regulations.

SECTION 16 - ADDITIONAL INFORMATION

Disclaimer:

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