

SAFETY DATA SHEET

MONOETHANOLAMINE (MEA)

CAS No.: 141-43-5

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Monoethanolamine (MEA)
CAS Number	141-43-5
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION - Acute toxicity (oral, dermal) - Category 4 - Skin corrosion - Category 1B - Specific target organ toxicity, single exposure (respiratory) - Category 3 - Hazardous to the aquatic environment, chronic - Category 3	
HAZARD STATEMENTS - H302 - Harmful if swallowed - H312 - Harmful in contact with skin - H314 - Causes severe skin burns and eye damage - H332 - Harmful if inhaled - H335 - May cause respiratory irritation - H412 - Harmful to aquatic life with long lasting effects	
PRECAUTIONARY STATEMENTS - P260 - Do not breathe mist/vapors - P264 - Wash hands thoroughly after handling - P280 - Wear protective gloves/eye protection/face protection - P303+P361+P353 - If on skin: remove contaminated clothing and rinse skin with water - P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes, remove contact lenses if present - P310 - Immediately call a poison center/doctor - P405 - Store locked up	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Monoethanolamine (MEA)
CAS Number	141-43-5
Physical State	Liquid
Appearance / Odour	Colorless to pale yellow, viscous liquid with a mild ammonia-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open; remove contact lenses if present. Get immediate medical attention.
Skin Contact	Remove contaminated clothing immediately and flush skin with large amounts of water for at least 15 minutes. Get medical attention; treat as a chemical burn.
Inhalation	Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Get immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray/fog, dry chemical, carbon dioxide, alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use a direct/high-pressure water stream, as it may spread the fire.
Special Hazards	Combustible liquid above its flash point; may release toxic nitrogen oxide fumes on combustion. Vapors are heavier than air and may travel to an ignition source. Containers may rupture violently if heated (BLEVE potential).

6. ACCIDENTAL RELEASE MEASURES

Measures	Evacuate non-essential personnel, eliminate ignition sources, and ventilate the area. Contain the spill with inert absorbent (sand, vermiculite), avoid contact and runoff to drains/waterways, and place waste in closed, labeled containers.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate local exhaust ventilation; avoid contact with skin/eyes and breathing vapors/mist. Keep away from heat, sparks, and open flame; use non-sparking tools and bond/ground containers during transfer.
Storage Conditions	Store in a cool, dry, well-ventilated area in tightly closed, corrosion-resistant (e.g., stainless steel/HDPE) containers away from heat, ignition sources, and incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA/ACGIH TWA 3 ppm (approx. 8 mg/m ³); ACGIH STEL 6 ppm. Use chemical splash goggles, face shield, chemical-resistant gloves (e.g., nitrile/butyl rubber), and NIOSH-approved respirator where ventilation is inadequate.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless to pale yellow, viscous liquid with a mild ammonia-like odor.
Boiling Point	170
Melting Point	10.3
Flash Point	85 (closed cup)
Density / Specific Gravity	1.012 g/cm ³ at 20 C
Water Solubility	Miscible in all proportions
pH Value	Approx. 12 (0.1 M aqueous solution), strongly alkaline

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizers, strong acids, acid anhydrides, acrylates, ketones, and certain metals (e.g., copper, aluminum, zinc alloys) that may be attacked.
Hazardous Decomposition	Combustion or thermal decomposition can produce carbon monoxide, carbon dioxide, and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive to skin and eyes causing severe burns; harmful if swallowed, in contact with skin, or inhaled, with possible respiratory tract irritation. Repeated or prolonged exposure may cause sensitization or organ effects in animal studies; not classified as a carcinogen, mutagen, or reproductive toxicant.
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12. ECOLOGICAL INFORMATION

Summary	Harmful to aquatic life with long-lasting effects; moderately biodegradable but can be toxic to fish, invertebrates, and algae at elevated concentrations. Avoid release to soil, drains, and surface waters.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste in accordance with local, state, and federal regulations; do not discharge to sewers or waterways. Incineration by a licensed facility is a common disposal route.
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14. TRANSPORT INFORMATION

UN Number	UN 2491
Transport Hazard Class	Class 8 (Corrosive)
Packing Group	III

15. REGULATORY INFORMATION

Notes	Listed on TSCA, EINECS/REACH, and most global chemical inventories. Subject to OSHA Hazard Communication Standard labeling; workplace exposure limits are enforced in most jurisdictions given its corrosive and respiratory-irritant profile.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

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