



SAFETY DATA SHEET

DIETHYLAMINE

CAS No.: 109-89-7

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	Diethylamine
CAS Number	109-89-7
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 • Flammable liquid - Category 2 • Acute toxicity, oral - Category 4 • Acute toxicity, dermal - Category 4 • Skin corrosion - Category 1B • Acute toxicity, inhalation - Category 4	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapor • H302 - Harmful if swallowed • H312 - Harmful in contact with skin • H314 - Causes severe skin burns and eye damage • H332 - Harmful if inhaled	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking • P233 - Keep container tightly closed • P260 - Do not breathe vapors • 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 • P370+P378 - In case of fire: use appropriate media to extinguish	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Diethylamine
CAS Number	109-89-7
Physical State	Liquid
Appearance / Odour	Colorless liquid (may darken/yellow-brown with age or impurities) with a strong, ammonia/fish-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 immediate medical attention; treat as a chemical burn.
Inhalation	Remove to fresh air immediately. If breathing is difficult, give oxygen; 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	Dry chemical, carbon dioxide, alcohol-resistant foam, water spray/fog to cool containers.
Unsuitable Extinguishing Media	Do not use a direct/solid water stream, which may spread the fire.
Special Hazards	Extremely flammable liquid with a very low flash point; vapors are heavier than air and can travel to ignition sources and flash back. Combustion produces toxic nitrogen oxide fumes. Closed containers may rupture violently when heated.

6. ACCIDENTAL RELEASE MEASURES

Measures	Evacuate the area, eliminate all ignition sources, and ventilate. Contain spill with inert absorbent, avoid contact and runoff to drains/waterways, and collect waste in closed, labeled containers. Use appropriate corrosion-resistant and flame-resistant PPE.
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7. HANDLING AND STORAGE

Handling Precautions	Handle only in a well-ventilated area or fume hood, away from all sources of heat, sparks, and open flame; use non-sparking, grounded/bonded equipment during transfer. Avoid all contact with skin and eyes and inhalation of vapors.
Storage Conditions	Store in a cool, well-ventilated, flammable-liquid-rated storage area in tightly closed, corrosion-resistant containers away from heat, ignition sources, oxidizers, and acids. Keep container closed to prevent vapor buildup.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL/ACGIH TWA 5 ppm; ACGIH STEL 15 ppm. Use chemical splash goggles/face shield, chemical- and flame-resistant gloves, flame-resistant clothing, and NIOSH-approved respirator with adequate ventilation.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid (may darken/yellow-brown with age or impurities) with a strong, ammonia/fish-like odor.
Boiling Point	55.5 (range 54.8-56.4)
Melting Point	-49.8
Flash Point	-23 (closed cup)
Density / Specific Gravity	0.707 g/cm ³ at 20 C
Water Solubility	Miscible in all proportions
pH Value	Approx. 12 (dilute aqueous solution), strongly alkaline

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; hygroscopic and forms flammable vapor readily at room temperature.
Incompatible Materials	Strong oxidizers, strong acids, halogenated compounds, and certain metals (e.g., copper, aluminum alloys).
Hazardous Decomposition	Combustion or thermal decomposition can produce carbon monoxide, carbon dioxide, and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive, causing severe skin burns and eye damage on contact; harmful if swallowed, absorbed through skin, or inhaled, with vapors causing significant respiratory tract irritation. Not classified as a carcinogen, mutagen, or reproductive toxicant based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Expected to have moderate acute aquatic toxicity and to biodegrade relatively readily; not typically classified as hazardous to the aquatic environment under standard GHS criteria, though releases to waterways should be avoided.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous (flammable, corrosive) 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 1154
Transport Hazard Class	Class 3 (Flammable liquid), subsidiary risk Class 8 (Corrosive)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Listed on TSCA, REACH/EINECS, and other global inventories; subject to flammable-liquid and corrosive-substance labeling and storage requirements in essentially all jurisdictions.
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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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