

SAFETY DATA SHEET

CYCLOHEXYLAMINE

CAS No.: 108-91-8

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	Cyclohexylamine
CAS Number	108-91-8
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 3 • Acute toxicity, oral - Category 4 • Acute toxicity, dermal - Category 3 • Acute toxicity, inhalation - Category 3 • Skin corrosion - Category 1B • Serious eye damage - Category 1 • Chronic aquatic toxicity - Category 2	
HAZARD STATEMENTS • H226 - Flammable liquid and vapour • H302 - Harmful if swallowed • H311 - Toxic in contact with skin • H314 - Causes severe skin burns and eye damage • H331 - Toxic if inhaled • H411 - Toxic to aquatic life with long lasting effects	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P260 - Do not breathe vapours/mist • P264 - Wash exposed skin thoroughly after handling • P271 - Use only outdoors or in a well-ventilated area • P273 - Avoid release to the environment • P280 - Wear protective gloves/eye protection/face protection • P301+P330+P331 - IF SWALLOWED: rinse mouth; do NOT induce vomiting • P303+P361+P353 - IF ON SKIN: remove contaminated clothing immediately and rinse skin with water • P304+P340 - IF INHALED: remove to fresh air and keep comfortable for breathing • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P310 - Immediately call a POISON CENTER or doctor • P405 - Store locked up	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cyclohexylamine
CAS Number	108-91-8
Physical State	Liquid
Appearance / Odour	Colorless to pale yellow liquid with a strong, fishy/amine-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and get immediate medical attention.
Skin Contact	Remove contaminated clothing immediately and rinse skin with plenty of water for at least 15 minutes; seek immediate medical attention.
Inhalation	Remove immediately to fresh air and keep at rest in a position comfortable for breathing; seek immediate medical attention.
Ingestion	Rinse mouth; do NOT induce vomiting; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray/fog.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Flammable liquid producing vapor that can form explosive mixtures with air; combustion or thermal decomposition releases toxic oxides of nitrogen; firefighters must wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate ignition sources, ventilate the area, contain the spill, neutralize cautiously, avoid contact and inhalation, prevent entry into drains/waterways, and collect for disposal by trained personnel.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate ventilation or local exhaust, keep away from heat/sparks/open flame, use grounded/bonded equipment, and avoid all skin/eye contact and inhalation given its corrosive nature.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from heat, acids and oxidizers, in tightly closed corrosion-resistant containers; store locked up/restricted access.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~10 ppm TWA (skin notation); requires chemical-resistant gloves (e.g., butyl, neoprene), full-face respirator with organic vapor/ammonia cartridge or supplied air where levels exceed exposure limits, chemical splash goggles, and impervious protective clothing.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless to pale yellow liquid with a strong, fishy/amine-like odor.
Boiling Point	~134 C
Melting Point	~-18 C
Flash Point	~28-32 C (closed cup)
Density / Specific Gravity	~0.865 g/cm3 at 20 C
Water Solubility	Miscible with water in all proportions
pH Value	~12-13 (aqueous solution, strongly alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizing agents, strong acids (vigorous exothermic reaction).
Hazardous Decomposition	Oxides of nitrogen and carbon on combustion or thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Summary	Toxic if inhaled and in contact with skin, harmful if swallowed; corrosive, causing severe skin burns and eye damage; historically studied for potential carcinogenicity via its metabolite cyclohexylamine from cyclamate sweeteners, though current classification does not list it as a confirmed human carcinogen; not classified as a mutagen based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Toxic to aquatic organisms with long-lasting effects; moderately biodegradable; should be prevented from entering waterways.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste through a licensed waste management/incineration facility in accordance with local regulations; never discharge to drains untreated.
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14. TRANSPORT INFORMATION

UN Number	UN2357
Transport Hazard Class	Class 8 (Corrosive), subsidiary risk Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Used as a corrosion inhibitor, rubber chemical intermediate and in water treatment boiler chemicals; classified as corrosive, flammable and acutely toxic under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2357, Class 8 (subsidiary 3), Packing Group II.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
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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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