

SAFETY DATA SHEET

HYDROXYLAMINE SULPHATE (HAS)

CAS No.: 10039-54-0

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	Hydroxylamine Sulphate (HAS)
CAS Number	10039-54-0
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 - Category 4 - Skin corrosion - Category 1B - Serious eye damage - Category 1 - Skin sensitization - Category 1 - Germ cell mutagenicity - Category 2 - Chronic aquatic toxicity - Category 1	
HAZARD STATEMENTS - H302 - Harmful if swallowed - H314 - Causes severe skin burns and eye damage - H317 - May cause an allergic skin reaction - H341 - Suspected of causing genetic defects - H410 - Very toxic to aquatic life with long lasting effects	
PRECAUTIONARY STATEMENTS - P201 - Obtain special instructions before use - P264 - Wash exposed skin thoroughly after handling - P270 - Do not eat, drink or smoke when using this product - P273 - Avoid release to the environment - P280 - Wear protective gloves/eye protection/face protection - P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor if you feel unwell - P303+P361+P353 - IF ON SKIN: remove contaminated clothing immediately and rinse skin with water - 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	Hydroxylamine Sulphate (HAS)
CAS Number	10039-54-0
Physical State	Solid
Appearance / Odour	White to off-white crystalline powder, odorless to faintly characteristic odor; commonly supplied as a solid or as an aqueous solution.

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 to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if symptoms occur.
Ingestion	Rinse mouth; do NOT induce vomiting; give water to drink if conscious; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, CO2, or foam appropriate for the surrounding fire.
Unsuitable Extinguishing Media	None specifically identified; avoid conditions that could concentrate the material and promote runaway decomposition.
Special Hazards	Can undergo exothermic decomposition when heated or contaminated, potentially releasing oxides of nitrogen and sulfur and, in confined/concentrated conditions, presenting an explosion hazard (hydroxylamine salts are known to be thermally unstable at elevated concentration/temperature); wear full PPE and self-contained breathing apparatus for fires involving this material.

6. ACCIDENTAL RELEASE MEASURES

Measures	Avoid contact and inhalation, contain the spill, neutralize cautiously, prevent entry into drains/waterways (very toxic to aquatic life), and collect for disposal by trained personnel; avoid concentrating spilled material through evaporation.
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7. HANDLING AND STORAGE

Handling Precautions	Use with adequate ventilation, avoid all skin/eye contact given corrosive and sensitization hazards, avoid heating or concentrating the material beyond recommended limits due to thermal instability, and keep away from contamination that could trigger decomposition.
Storage Conditions	Store in a cool, well-ventilated area away from heat, oxidizers, reducing agents, and incompatible metals, in tightly closed corrosion-resistant containers; avoid conditions (heat, confinement, contamination) that could promote hazardous decomposition; store locked up/restricted access.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific universally-established occupational exposure limit; general guidance for hydroxylamine salts suggests keeping airborne dust as low as reasonably practicable; use chemical-resistant gloves (e.g., neoprene, butyl), chemical splash goggles/face shield, and a dust/mist respirator where indicated.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White to off-white crystalline powder, odorless to faintly characteristic odor; commonly supplied as a solid or as an aqueous solution.
Boiling Point	Not applicable (decomposes before boiling)
Melting Point	~170 C (decomposes)
Flash Point	Not applicable (non-combustible-to-slowly-combustible solid, but see decomposition hazard)
Density / Specific Gravity	~1.9 g/cm3
Water Solubility	Freely soluble, several hundred g/L at 20 C
pH Value	~1.0-2.0 (5% aqueous solution, strongly acidic)

10. STABILITY AND REACTIVITY

Stability	Can be thermally unstable, particularly at elevated concentration or temperature, with potential for exothermic, self-accelerating decomposition; stable under recommended cool, dilute, well-controlled storage conditions.
Incompatible Materials	Strong oxidizing agents, strong bases, heavy metals/metal salts (can catalyze decomposition), and reducing agents.
Hazardous Decomposition	Oxides of nitrogen and sulfur on thermal decomposition; ammonia may also be released under certain conditions.

11. TOXICOLOGICAL INFORMATION

Summary	Harmful if swallowed; corrosive, causing severe skin burns and eye damage; a confirmed skin sensitizer; suspected mutagen based on available genotoxicity data; used industrially chiefly as a key intermediate for caprolactam (nylon-6) and oxime/agrochemical production; not classified as a confirmed human carcinogen or reproductive toxicant based on current data.
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12. ECOLOGICAL INFORMATION

Summary	Very toxic to aquatic organisms with long-lasting effects; should be strictly prevented from entering waterways.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste through a licensed specialist waste management facility in accordance with local regulations, with attention to controlled, dilute handling to avoid decomposition hazards during disposal.
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14. TRANSPORT INFORMATION

UN Number	UN2865
Transport Hazard Class	Class 8 (Corrosive)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Key industrial intermediate for caprolactam (nylon) and specialty oxime chemical production; classified as corrosive, a skin sensitizer, and an aquatic hazard under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2865 'Hydroxylamine sulfate', Class 8, Packing Group II; thermally unstable at elevated concentration, requiring controlled storage conditions.
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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.

(This document is computer generated and therefore does not require any signature.)

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