

Deepak Nitrite Limited

Material Safety Data Sheet

Hydroxylamine Sulfate

1 Product And Company Identification :

Product Name : **Hydroxylamine Sulfate**
 CAS No. : **10039-54-0**
 Supplier : Deepak Nitrite Ltd.
 National Games Road, Opposite Golf Course,
 Yerawada, Pune – 411 006. (India).
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2 Composition / Information On Ingredients :

Hazardous components : Hydroxylamine Sulfate
 Synonyms : Hydroxylammonium Sulfate, Oxammonium Sulfate.
 Chemical formula : $H_6N_2O_2 \cdot H_2SO_4$
 Molecular weight : 164.13
 CAS No. : 10039-54-0
 UN No. : UN 2865
 EINECS No. : 233-118-8
 Hazard symbols : Xn N
 Risk phrases : R 22, 36/38, 43, 48/22, 50
 Safety phrases : S22, 24, 37, 61

3 Hazards Identification :

Potential Health Effects:

Causes eye burns, skin irritation/burns/sensitization/an allergic reaction, which becomes evident upon re-exposure to this material. May be absorbed through the skin, Harmful if swallowed. Causes gastrointestinal tract burns. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea, and death. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract, Absorption into the body leads to the formation of methemoglobin, which in sufficient concentrations causes cyanosis.

4 First Aid Measures :

Following eye contact: Open the eyelids occasionally and rinse for at least 15 minutes with water. Consult an eye specialist immediately.

Following skin contact: Remove all contaminated clothing and shoes. Wash affected skin with plenty of soap and water. Get medical aid.

Upon swallowing: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Upon inhalation: Remove victim to fresh air area. If there is difficulty in breathing give oxygen. If not breathing, give artificial respiration. Medical attention should be obtained.

Notes to Physician: Treat symptomatically and supportively.

Antidote: No specific antidote exists.

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5 Fire Fighting Measures :

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Exposure to heat may promote violent decomposition.

Extinguishing Media: Do NOT use water directly on fire. For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

6 Accidental Release Measures :

Spills/Leaks: Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

7 Handling & Storage :

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

8 Exposure Control / Personal Protection :

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. .

Follow the OSHA respirator regulations found in 29CFR, 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary

9 Physical And Chemical Properties :

Colour	:	White
Odour	:	Not available.
PH	:	Not available
Boiling Point/range	:	Not available.
Melting /Freezing point	:	170 °C
Flash Point	:	Not available.
Explosion properties	:	Not available.
Density	:	Not available
Solubility	:	329 g/l water (20 °C)

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10 Stability And Reactivity :

Chemical Stability: Unstable at temperatures above 100 °C.

Conditions to Avoid: Incompatible materials, combustible materials, organic materials, temperatures above 100fC.

Incompatibilities with Other Materials: Bases, oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, oxides of sulfur, ammonia and/or derivatives, nitrogen, sulfuric acid.

Hazardous Polymerization: Has not been reported.

11 Toxicological Information :

Acute toxicity : Not available.

Irritation of the eyes : Not available.

Irritation of the skin : Not available.

RTECS# : CAS# 10039-54-0: NC 5425000

Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Special properties : Not available.

12 Ecological Information :

Acute fish toxicity : Not available.

13 Disposal Considerations :

Dispose of in a manner consistent with federal, state, and local regulations.

14 Transport Information :

UN No. : UN 2865

Hazard Class : 8

Packing Group : III

Proper shipping name : Hydroxylamine Sulphate

Declaration for land shipment : Not available.

Declaration for sea shipment : Not available.

Declaration for air shipment (IATA) : Not available.

Packing instruction, passenger : Not available.

Packing instruction, cargo : Not available.

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15 Regulatory Information :

Symbols : Xn - Harmful , N - Dangerous for the environment)

Risk Phrases

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitization by skin contact.

R 50 Very toxic to aquatic organisms.

R 48/22 Harmful : danger of serious damage to health by prolonged exposure if swallowed.

Safety Phrases:

S 22 Do not inhale dust.

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

16 Other Information:

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