

Material Safety Data Sheet

Section 1 –Chemical Product and company identification

Product Identification : **Hydroxylamine sulfate**

Company Identification : OUZHOU HENGSHUN CHEMICAL INDUSTRIAL CO.,LTD

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Section 2 - Composition/Information on Ingredients

Chemical name	assay	CAS NO.	EINECS#
Hydroxylamine sulfate	99-100.32	10039-54-0	233-118-8

Hazard Symbols: XN N

Risk Phrases: 22 36/38 43 50 48/22

Section 3 - Hazards Identification, Including Emergency Overview

EMERGENCY OVERVIEW Harmful if swallowed. Irritating to eyes and skin. May causesensitization by skin contact. Very toxic to aquatic organisms.Harmful : danger of serious damage to health by prolonged exposure ifswallowed.Hygroscopic (absorbs moisture from the air).

Potential health effects

EYE : causes eye irritation.

SKIN : Causes skin irritation. Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be absorbed through the skin.

INGESTION : may cause irritation of the digestive tract. poison by ingestion.

INHALATION : causes respiratory tract irritation. toxic if inhaled.

CHRONIC: Absorption into the body leads to the formation of methemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood).

Section 4 – First Aid Measures

First Aid:

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

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

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 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.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

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.

Section 7 - Handling and 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.

Section 8 - Exposure Controls & Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

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.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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

Section 9 - Physical & Chemical Properties

Physical State: Crystals

Color: white

Odor: Not available.

pH: Not available.

Vapor Pressure: Negligible.

Viscosity: Not available.

Boiling Point: 56.5 deg C

Freezing/Melting Point: 170 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: >170 deg C

Solubility in water: 329 G/L WATER (20°C)

Specific Gravity/Density: 1.204g/cm³

Molecular Formula: (H₂NOH)₂.H₂SO₄

Molecular Weight: 164.14

Section 10 - Stability & Reactivity Data

Chemical Stability:

Unstable at temperatures above 100C.

Conditions to Avoid:

Incompatible materials, combustible materials, organic materials, temperatures above 100°C.

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.

Section 11 - Toxicological Information

RTECS#:

CAS# 10039-54-0: NC5425000

LD50/LC50:

CAS# 10039-54-0: Oral, mouse: LD50 = 980 mg/kg; Oral, rat: LD50 = 842 mg/kg.

Not available.

Carcinogenicity:

Hydroxylamine sulfate -

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

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:

Fathead minnow LC50 = 3.2-7.3mg/L/96H Water flea LC50 = 1.4mg/L/96H

Rainbow trout LC100 = 150mg/L/10min (as hydroxylamine)

Section 13 - Disposal Considerations

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

Section 14 - MSDS Transport Information

Transport Information:

IATA

Shipping Name: HYDROXYLAMINE SULPHATE

Hazard Class: 8

UN Number: 2865

Packing Group: III

IMO

Shipping Name: HYDROXYLAMINE SULPHATE

Hazard Class: 8

UN Number: 2865

Packing Group: III

RID/ADR

Shipping Name: HYDROXYLAMINE SULPHATE

Hazard Class: 8

UN Number: 2865

Packing group: III

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

- R 22 Harmful if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitization by skin contact.
- R 48/22 Harmful : danger of serious damage to health by prolonged exposure if swallowed.
- R 50 Very toxic to aquatic organisms.

Safety Phrases:

- S 22 Do not breathe 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.

WGK (Water Danger/Protection)

CAS# 10039-54-0: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 10039-54-0 is listed on Canada's DSL List.

CAS# 10039-54-0 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 10039-54-0 is listed on the TSCA inventory.

Section 16 - Other Information

Other Information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special. Indirect, incidental, consequential or exemplary damages,

howsoever arising, even if the company has been advised of the possibility of such damages.