

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYDROXYLAMINE SULPHATE

CAS Number: 10039-54-0

1. IDENTIFICATION:

Product Code : 96071
Company Name : ADVENT CHEMBIO PRIVATE LIMITED
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2. HAZARDS IDENTIFICATION:**Hazard classification****Physical hazards****Corrosive to Metals** : Category 1**Health hazards****Acute toxicity, Oral** : Category 4**Acute toxicity, Dermal** : Category 4**Skin irritation** : Category 2**Eye irritation** : Category 2**Skin sensitization** : Category 1**Carcinogenicity** : Category 2**Specific target organ
toxicity - repeated
exposure, Oral** : Category 2**Short-term (acute)
aquatic hazard** : Category 1**Labels elements** :**Hazard symbol** :**Signal word** : Warning**Hazard statement** : May be corrosive to metals.
: Harmful if swallowed or in contact with skin.
: Causes skin irritation.
: May cause an allergic skin reaction.

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Causes serious eye irritation.
Suspected of causing cancer
May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.
Very toxic to aquatic life.

Precautionary statement**Prevention**

: Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response

: IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage

: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal

: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Hydroxylamine Sulphate	10039-54-0	NLT 99.0%	Yes

4. FIRST AID MEASURES:**General information**

: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion

: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation

: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

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	Get medical attention if symptoms persist.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

General information	:
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	: Nitrogen oxides (NOx) Sulfur oxides Not combustible. In the event of decomposition: danger of explosion! Risk of dust explosion. Ambient fire may liberate hazardous vapours. Avoid shock and friction.
Special protective equipment and precautions for firefighters	
Special firefighting procedures	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Special protective equipment for firefighters	: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	: Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up	: Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

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Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters : Ingredients with workplace control parameters

Appropriate engineering controls : No data available

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: White crystalline powder
Odor	: No data available
Solubility	: No data available
Formula	: $(\text{NH}_2\text{OH})_2 \cdot \text{H}_2\text{SO}_4$
Molecular Weight	: 164.14 g/mol
pH	: No data available
Boiling Point	: No data available
Melting Point	: 170 °C
Flash Point	: 12 °C
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: No data available
Evaporation Rate (BuAc=1)	: No data available

10. STABILITY AND REACTIVITY:

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Material is stable under normal conditions..
Possibility of hazardous reactions	: Violent reactions possible with: nitrites nitrates Powdered metals Exothermic reaction with: Oxidizing agents Aldehydes Ketones A risk of explosion and/or of toxic gas formation exists with the following substances: bases
Conditions to avoid	: Strong heating (explosive decomposition)
Incompatible materials	: Metals
Hazardous decomposition products	: In the event of fire.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion	: Irritating. May cause nausea, stomach pain and vomiting.
Inhalation	: May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects
Skin contact	: Causes mild skin irritation
Eye contact	: Causes serious eye irritation.

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Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product	: LD 50 (Rat): 842 mg/kg
Dermal Product	: LD 50 (Rabbit): 1.500 - 2.000 mg/kg
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Prolonged or repeated skin contact may cause drying, cracking, or irritation
Serious eye damage/eye irritation Product	: Irritating to eyes.
Respiratory or skin sensitization Product	: Dermatitis.
Carcinogenicity Product	: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available.
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No data available.
Specific target organ toxicity - single exposure Product	: Ingestion - May cause damage to organs through prolonged or repeated exposure. - Blood.
Specific target organ toxicity - repeated exposure Product	: Ingestion - May cause damage to organs through prolonged or repeated exposure. - Blood
Aspiration hazard Product	: No data available.
Other effects	: No data available.

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12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product : LC50 - Pimephales promelas (fathead minnow) - 1 - 10 mg/l - 96 h

Aquatic invertebrates Product : EC50 - Daphnia magna (Water flea) - 1,62 mg/l - 48 h

Toxicity to algae : IC50 - Desmodismus subspicatus (green algae) - 0,86 mg/l - 96 h

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available.

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : The product is partly soluble in water. May spread in the aquatic environment.

Other adverse effects : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
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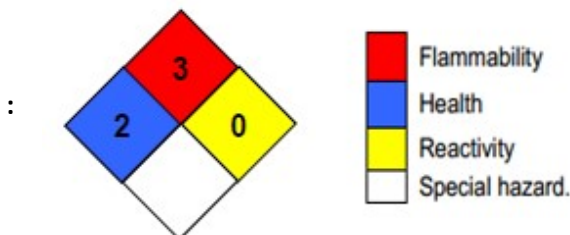
DOT	UN 2865	Hydroxylamine Sulphate	8	III	No
IMDG	UN 2865	Hydroxylamine Sulphate	8	III	No
IATA	UN 2865	Hydroxylamine Sulphate	8	III	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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