Material Safety Data Sheet

HYDROXYLAMINE HYDROCHLORIDE

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Carolina Biological Supply Company
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CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Hydroxylamine Hydrochloride
Product Code(s): 86-8290
Size: 100 g
Chemical Name: Hydroxylamine Hydrochloride
CAS Number: 5470-11-1
Formula: NH2OH*HCl
Synonyms: Oxammonium hydrochloride; hydroxylammonium chloride
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: DANGER - Causes burns. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Very toxic to aquatic organisms. Risk of explosion by shock, friction, fire or other sources of ignition.

Potential Health Effects:

Eyes: May cause irritation.

Ingestion: May severely irritate or damage digestive tract.

Skin: May cause severe irritation or chemical burns.

Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Hydroxylamine Hydrochloride (CAS#5470-11-1) 99%
TLV units: N/A
PEL units: N/A

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A
NFPA Rating:
Health: 2
Fire: 1
Reactivity: 3
Extinguisher Media: Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: 140°C (284°F)
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Can react explosively with certain reducing agents and combustibles such as metal powders, carbides, H2S, turpentine.
May explode upon heating.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.
Keep away from oxidizing materials and strong acids.
May explode upon heating.
May cause severe irritation or chemical burns. Store in a secure area suitable for the storage of reactive material.
Avoid direct sunlight and heat.
Store at controlled room temperature.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
Ventilation:
Local Exhaust: Yes
Mechanical(General): Yes
Special: No
Other: No
Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.
Eye Protection: Splash proof chemical safety goggles should be worn.
Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 69.49
Boiling Point: N/A
Vapor Density(Air=1): N/A
Percent Volatile by Volume: N/A
Solubility in Water: Slightly Soluble
Melting Point: Decomposes at 152°F
Vapor Pressure: N/A
Specific Gravity (H2O=1): 1.67
Evaporation Rate (BuAc=1): N/A
Appearance and Odor: Colorless to slightly yellow-green crystals.

Section 10 - Reactivity Data

Stability: Stable
Conditions to Avoid: Heat and sources of ignition.
Incompatibility (Materials to Avoid): Oxidizers,

Hazardous Decomposition Products: NOx, HCl,
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: ORL LD50 - Mouse: 400mg/kg
Effects of Overexposure:
Acute: See Section 2
Chronic: Teratogen data cited. Mutation data cited. Certain components or species of this product are considered potential carcinogens.
Conditions Aggravated by Overexposure: Skin disorders, Blood disorders Impaired Kidney Function,
Target Organs: Skin, Blood, Kidneys,
Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1759, Corrosive Solid, n.o.s. (Hydroxyamine Hydrochloride), 8, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:
Hydroxylamine-Hydrochloride - No

Chemical Category:
Hydroxylamine-Hydrochloride - No

CERCLA Section 103 RQ(lb.): Hydroxylamine-Hydrochloride - No
RCRA Section 261.33: Hydroxylamine-Hydrochloride - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit

ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act