SAFETY DATA SHEET: HYDROXYLAMINE HYDROCHLORIDE

1. IDENTIFICATION

Product Name: HYDROXYLAMINE HYDROCHLORIDE
Synonyms: Hydroxylammonium chloride; Oxammonium hydrochloride
Formula and Formula Weight: NH2OH HCl  69.49
Integra numbers beginning with: H905.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

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Phone: 253-479-7000

24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Acute Toxicity - Oral 4 Harmful if swallowed.
Acute Toxicity - Dermal 4 Harmful in contact with skin.
Skin Corrosion/Irritation 2 Causes skin irritation.
Eye Damage/Irritation 2A Causes serious eye irritation.
Sensitization - Skin 1 May cause an allergic skin reaction.
Carcinogenicity 2 Suspected of causing cancer.
Specific Target Organ Toxicity (repeated exposure) 2 May cause damage to organs through prolonged or repeated exposure.
Corrosive to Metals 1 May be corrosive to metals.

Signal Word: Warning

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, face protection.

Response
If swallowed: Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed, concerned, or feeling unwell: Get medical advice, attention.
Specific treatment (see first aid section on this label)
Rinse mouth.
If skin irritation or a rash occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off contaminated clothing and wash it before reuse.
Absorb spillage to prevent material damage.

Storage
Store locked up.
Store in a corrosive resistant container with a resistant inner liner.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazard Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component | Synonyms | CAS # | % Weight
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4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek immediate medical attention.

Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional notes: Symptoms and effects include skin, eye, respiratory irritation; burns; cyanosis, convulsions, paralysis, burns to the mouth and throat; coughing, difficulty breathing, chest pains, pulmonary edema; organ damage.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Specific Hazards: Material may become unstable when exposed to heat, shock or friction and undergo violent decomposition.


6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Cautiously flush with flooding amounts of water. Do not allow release to environment.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong bases and strong oxidizers. Copper, aluminum, iron, phosphorous pentachloride, calcium.

Storage and Handling: Store locked up in a cool, dry, well-ventilated corrosive materials storage area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Minimize exposure to air and light. Avoid temperatures above 100°C. Material violently decomposes above 150°C.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep only in original container.

Do not breathe dust, fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Hydroxylamine hydrochloride: None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high a NIOSH approved respirator with a particulate filter is recommended.

Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure. Rubber gloves are recommended.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless crystals or white granular powder

Odor: Odorless

Odor Threshold: Not available

pH: 2.5 - 3.5 (for a 5% solution at 20°C)

Melting/Freezing Point: Not available

Initial Boiling Point and Boiling Range: Not available

Flash Point: Not available

Evaporation Rate: Not available

Flammability: Not available

Flammable or Explosive Limits (% by volume in air): Upper: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Relative Density: 1.67 g/cc
10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Heat and moisture. Air.
Incompatibilities: Incompatible with strong bases and strong oxidizers. Copper, aluminum, iron, phosphorous pentachloride, calcium.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful if inhaled. Irritating to the nose and throat, severely irritating to the respiratory system. Overexposure may cause coughing, difficulty in breathing, chest pains and pulmonary edema.
Skin Contact: Corrosive material. Contact may cause severe burns.
Eye Contact: Contact may burn or damage the eyes.
Ingestion: Harmful or fatal if swallowed. Causes cyanosis, convulsions, paralysis, burns to the mouth and throat.
Chronic Effects: Damage to blood, liver, kidneys, spleen, heart, stomach, lungs.
Target Organs: Eyes, skin, respiratory system, liver, kidneys. Blood, lungs, spleen, heart, stomach.
Additional Effects: None identified
Reproductive Effects: This material may be mutagenic and teratogenic.
Carcinogenicity: Suspected of causing cancer.

Toxicity Data:
Hydroxylamine hydrochloride
LD50 (oral, mouse) 408 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data:
Hydroxylamine hydrochloride LC50 Brook trout: 4 mg/L - 80.4h

Terrestrial Toxicity Data:
Hydroxylamine hydrochloride No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, nos
Packing Group: III
Hazard Class: 8
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION

Hydroxylamine hydrochloride is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 25757 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available
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***** END OF SDS *****