



## Material Safety Data Sheet



## HMIS

Health Hazard	3
Fire Hazard	1
Reactivity	0

PPE (See Section 15)



## Section 1. Chemical Product and Company Identification

Common Name/ Trade Name: Acetylene Test 2  
 Code: RE2123  
 CAS #: 5470-11-1  
 Manufacturer: HazTech Systems, Inc.  
 P.O. 929  
 Mariposa, CA 95338  
 RTECS: NC3675000  
 TSCA: TSCA 8(b) inventory:   
 Hydroxylamine hydrochloride  
 Commercial Name: Not available.  
 CI #: Not available.  
 Chemical Name: Not available.  
 In case of emergency contact CHEMTREC  
 (24 hours) at 800-424-9300  
 Chemical Family: Not available.  
 HazTech Systems, Inc. 800-337-2497  
 Chemical Formula: NH<sub>2</sub>OH·HCl  
 Spectrum Chemical Mfg. Corp. 310-516-8000  
 Supplier: Spectrum Chemical Mfg. Corp.  
 14422 S. San Pedro St.  
 Gardena, CA 90248

## Section 2. Composition and Information on Ingredients

## Exposure Limits

Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Hydroxylamine hydrochloride	5470-11-1				100

Toxicological Data on Ingredients: Hydroxylamine hydrochloride:   
 ORAL (LD50): Acute: 408 mg/kg (Mouse).

## Section 3. Hazards Identification

- Potential Acute Health Effects: Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage  or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce  lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering and  itching. Skin inflammation is characterized by itching, scaling, reddening, or occasionally, blistering.
- Potential Chronic Health Effects: Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.   
 CARCINOGENIC EFFECTS: Not available.   
 MUTAGENIC EFFECTS: Not available.   
 TERATOGENIC EFFECTS: Not available.   
 DEVELOPMENTAL TOXICITY: Not available.   
 Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin  destruction, or dermatitis. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.  
 Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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## Section 4. First Aid Measures

- Eye Contact  Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
- Skin Contact  If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a dilute shower. If the chemical got on the victim's exposed skin - such as the hands - gently  and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices,  creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
- Serious Skin Contact  Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate  medical attention.
- Inhalation  Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
- Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as collar, tie, belt or waistband.
- Serious Inhalation  If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
- WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the
- inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
- Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication
- Ingestion  that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a
- collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
- Serious Ingestion Not available.

## Section 5. Fire and Explosion Data

- Flammability May be combustible at high temperature.
- Auto-Ignition Temperature Not available.
- Flash Point  Not available.
- Flammable Limits  Not available.
- Products of Combustion  Not available.
- Fire Hazards in Presence of Various Substances  Not available.
- Explosion Hazards in Presence of Various Substances  Risks of explosion of the product in presence of mechanical impact: Not available.
- Risks of explosion of the product in presence of static discharge: Not available.
- Fire Fighting Media and Instructions  SMALL FIRE: Use DRY chemical powder.
- LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Special Remarks on Fire Hazards  Material in powder form, capable of creating a dust explosion.
- Special Remarks on Explosion Hazards Not available.

## Section 6. Accidental Release Measures

- Small Spill  Use appropriate tools to put the solid in a convenient waste disposal container. If necessary, neutralize the residue with
- a dilute solution of sodium carbonate.
- Large Spill Corrosive solid.
- Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce
- vapors. Prevent entry into sewers, basements or confined areas - dike if needed. Eliminate all ignition sources. Call for
- assistance on disposal. neutralize the residue with a dilute solution of sodium carbonate.

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**Section 7. Handling and Storage**

- Precautions** Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
- Storage** Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

**Section 8. Exposure Controls/Personal Protection**

- Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Personal Protection** Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
- Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Exposure Limits** Not available.

**Section 9. Physical and Chemical Properties**

Physical State and Appearance	<input type="checkbox"/> Solid	Volatility	Not available.
Molecular Weight	69.49 g/mole	Odor Threshold	Not available.
pH (1% Solution in Water)	3 (Acidic)	Water/Oil Dist. Coeff.	Not available.
Boiling Point	Decomposes.	Ionicity (in Water)	Not available.
Melting Point	151°C (303.8°F)	Dispersion Properties	See solubility in water.
Critical Temperature	Not available.	Solubility	<input type="checkbox"/> Easily soluble in cold water, <input type="checkbox"/> hot water.
Specific Gravity	1.67 (Water = 1)	Odor	Not available.
Vapor Pressure	Not applicable.	Taste	Not available.
Vapor Density	Not available.	Color	Not available.

**Section 10. Stability and Reactivity Data**

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Corrosivity	Not available.
Polymerization	No.

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## Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD <sub>50</sub> ): 408 mg/kg (Mouse).
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Extremely hazardous in case of skin contact (irritant), of ingestion, of inhalation.
<input type="checkbox"/> Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

## Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. <input type="checkbox"/> However, long term degradation products may arise.
<input type="checkbox"/> Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the original product.
Special Remarks on the Products of Biodegradation	Not available.

## Section 13. Disposal Considerations

Waste Disposal

## Section 14. Transport Information

DOT Classification	CLASS 8: Corrosive solid.
Identification	:Amine, solid, corrosive, n.o.s. (Hydroxylamine hydrochloride) :UN3259 PG: II
Special Provisions for Transport	Not available

DOT (Pictograms)



## Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations <input type="checkbox"/>	TSCA 8(b) inventory: Hydroxylamine hydrochloride
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has <input type="checkbox"/> found to cause cancer which would require a warning under the statute: No products were found.
<input type="checkbox"/>	California prop. 65: This product contains the following ingredients for which the State of California has <input type="checkbox"/> found to cause birth defects which would require a warning under the statute: No products were found.
<input type="checkbox"/> Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

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## Other Classifications

## HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	j

## National Fire Protection Association (U.S.A.)

## Flammability

Health		Reactivity
Specific hazard		

WHMIS (Canada)  
(Pictograms)DSCL (Europe)  
(Pictograms)TDG (Canada)  
(Pictograms)ADR (Europe)  
(Pictograms)

## Protective Equipment



Gloves.



Synthetic apron.



Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

## Section 16. Other Information

Catalog Number(s) MSDS Code H3340

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen on 2/5/2002

Verified by Sonia Owen. Printed 2/26/2002

Call 1-800-543-5487

## Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.