

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Hydroxylamine Hydrochloride 10% Solution
CAS number	5470-11-1
Synonyms	N/A

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemicals.
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC


### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to Metals	Category 1
Acute Oral Toxicity	Category 4
Skin Sensitizer	Category 1
Carcinogenicity	Category 2
Specific Target Organ Toxicity (repeated exposure)	Category 2
Target Organ(s) - Spleen	

## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard statements	<p>May be corrosive to metals.  Harmful if swallowed.  May cause an allergic skin reaction.  Suspected of causing cancer.  Causes damage to organs through prolonged or repeated exposure.  Toxic to aquatic life.</p>
Precautionary statements	<p>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, fumes, or mist. Wash arms, hands, and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection.</p> <p>Response: IF exposed or concerned, call a POISON CENTER or physician.</p> <p>IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Get medical attention if you feel unwell.</p> <p>IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse.</p> <p>Spills: Absorb spillage to prevent material damage.</p> <p>Storage: Store locked up. Store in corrosive-resistant container with a resistant inner liner.</p> <p>Disposal: Dispose of contents in accordance with local, state, federal, and international regulations.</p>

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

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Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua; H <sub>2</sub> O	7732-18-5	90%
Hydroxylammonium chloride	Hydroxylamine hydrochloride	5470-11-1	10%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

- If inhaled** Not expected to require first aid. If necessary, remove to fresh air.
- In case of skin contact** Wash with plenty of soap and water. May cause irritation, redness, and pain.
- In case of eye contact** May cause irritation, redness, pain, and tearing. Get medical attention.
- If swallowed** Call a POISON CENTER or physician if you feel unwell. Dilute with water or milk. Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Mildly corrosive and toxic. Harmful if swallowed. May cause irritation, redness, and pain. Repeated exposure may cause decreased appetite, anemia, weight loss, nervous system effects.

### 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment: Wash areas of contact with water.

## SECTION 5: Firefighting measures

### 5.1 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.

### 5.2 Specific hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours. Hydrogen chloride gas.

### 5.3 Special protective equipment and precautions for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection, see Section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

No metal containers. Tightly closed. Store in corrosive resistant container with a resistant inner liner. Protect from freezing and physical damage.

### Incompatibilities

Strong oxidizers. Metals. Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

#### Personal protective equipment

##### Eye/face protection

Wear eye protection. Safety glasses or goggles.

##### Skin protection

Wear protective gloves. Chemical resistant gloves.

##### Body Protection

Wear appropriate clothing to prevent skin exposure.

##### Respiratory protection

Normal room ventilation is adequate.

##### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Data not available
Odor Threshold	Data not available

pH	Data not available
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C
Evaporation Rate	Data not available
Flammability (solid)	Data not available
Flammability or explosive limit	Data not available
Upper	
Lower	
Vapor Pressure	Data not available
Vapor Density	Data not available
Density	Data not available
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available
Autoignition Temp	Data not available
Decomposition Temp	Data not available
Viscosity	Data not available
Molecular Formula	N/A
Molecular Weight	N/A
VOC Content(%)	Data not available
Oxidizing properties	Data not available

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5 Incompatible materials

Strong oxidizers. Metals.

### 10.6 Hazardous decomposition products

Gaseous ammonia. Nitrogen oxides. Hydrogen chloride.

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydroxylamine hydrochloride	200 - 2000 mg/kg (Rat)	400 - 2000 mg/kg (Rabbit)	-

#### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Suspected of causing cancer.

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Hydroxylamine hydrochloride	5470-11-1	Not listed	Not listed	Not listed	Not listed	Not listed

#### Specific target organ toxicity - single exposure

No information available.

#### Specific target organ toxicity - repeated exposure

Ingestion - May cause damage to organs through prolonged or repeated exposure (Spleen).

#### Reproductive toxicity

No information available.

#### Chronic effects

No information available.

## 11.2 Additional Information

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal, and international regulations.

Product		Species	Test Results
Hydroxylamine hydrochloride	LC50	Pseudokirchneriella subcapitata	0.21 mg/L/72h static
	EC50	Oncorhynchus mykiss	1.78 mg/L/96h semi-static
	EC50	Daphnia magna	1.1 mg/L/48h semi-static

## 12.2 Persistence and degradability

No information available.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

UN-no	UN2735
Proper Shipping Name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	III

### IMDG

UN-no	UN2735
Proper Shipping Name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	III



## **IATA**

UN-no	UN2735
Proper Shipping Name	Amines, liquid, corrosive, n.o.s.
Hazard Class	8
Packing Group	III

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not applicable.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not applicable.

### **SARA 304 Emergency release notification**

Not regulated.

### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

#### **SARA 302 Extremely hazardous substance**

Not listed.

#### **SARA 311/312 Hazardous**

Acute Health Hazard, Chronic Health Hazard.

#### **SARA 313 (TRI reporting)**

Not regulated.

### **Other federal regulations**

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

#### **Safe Drinking Water Act**

Not regulated.

#### **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

### **US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.