

## HYDROXYLAMINE HYDROCHLORIDE MATERIAL SAFETY DATA SHEET

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1 Product identifier**

Product form : Substance  
CAS No : 5470-11-1  
Product code : 38264, A-38264

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

##### **1.2.1. Relevant identified uses**

Industrial/professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Laboratory Reagent

##### **1.2.2. Uses advised against**

No additional information available

#### **1.3. Details of the manufacturer of the safety data sheet**

Techno Pharmchem  
Plot No.1022, Modern Industrial Estate,  
Bahadurgarh-124507, India  
T +91 11 23646422  
[info@technopharmchem.com](mailto:info@technopharmchem.com)

#### **1.4. Emergency telephone number**

Emergency number: +91 11 23646422 (9:30am – 5.30pm)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

Classification according to regulation (EC) No. 1272/2008[CLP]

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400

Full text of H-statements: see section 16

### Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life.

#### 2.2. Label elements

Labeling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	:	Warning
Hazard statements (CLP)	:	H290 - May be corrosive to metals. H302+H312 - Harmful if swallowed or in contact with skin. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	:	P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves, protective clothing, eye protection, face protection. P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No additional information available

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Name	:	HYDROXYLAMINE HYDROCHLORIDE
CAS-No.	:	5470-11-1

Full text of R- and H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: FIRST AID MEASURES**

### **4.1. Description of first aid measures**

First – aid measures general	:	IF exposed or concerned: Get medical advice/attention. Call a doctor if you feel unwell.
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	:	Immediately call a doctor. Specific measures. Wash with plenty of water/... Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention
First-aid measures after eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth. Call a doctor if you feel unwell. Call a doctor if you feel unwell

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

Symptoms/effects after skin contact	:	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	:	Eye irritation.
Symptoms/effects after ingestion	:	Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media	:	Water spray. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	:	dry chemical powder. Foam. Carbon dioxide (CO2). Water.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition products	:	Toxic fumes may be released in case of fire
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### **5.3. Advice for firefighters**

Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedure**

#### **6.1.1. For non-emergency personnel**

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.  
Do not breathe dust, fume, gas, mist, spray, vapours.  
Avoid contact with skin, eyes and clothing

#### **6.1.2. For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required.  
Emergency procedures : Stop release

### **6.2. Environmental precautions**

Avoid release to the environment.

### **6.3. Methods and material for containment and cleaning up**

For containment : Collect spillage.  
Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site

### **6.4. Reference to other sections**

For further information refer to section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.  
Hygiene measures : Do not eat, drink or smoke when using this product.  
Wash... thoroughly after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in original container. Keep container tightly closed.  
Store in a dry place. Protect from moisture.

### **7.3. Specific end use(s)**

No additional information available

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

No additional information available

## 8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	[In case of inadequate ventilation] Wear respiratory protection.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Crystalline powder.
Molecular mass	:	69.49 g/mol
Colour	:	White. Colourless.
Odour	:	Odourless.
Odour threshold	:	No data available
pH	:	2.5 – 3.5 (5% aqueous solution)
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	155 – 157 °C
Freezing point	:	Not applicable
Boiling point	:	305.6 °C
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non-flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.67 g/cm <sup>3</sup>
Solubility	:	Water: 95 g/100ml - Soluble in water
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical Stability

Stable under normal conditions.



### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

## 10.5. Incompatible materials

metals.

## 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

Acute toxicity(oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Harmful in contact with skin.
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation. pH: 2.5 – 3.5 (5% aqueous solution)
Serious eye damage/irritation	:	Causes serious eye irritation. pH: 2.5 – 3.5 (5% aqueous solution)
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Suspected of causing cancer.
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed, Harmful in contact with skin.

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1. Toxicity

Ecology - general	:	Very toxic to aquatic life.
Ecology - water	:	Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	:	Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

## 12.2. Persistence and degradability

No additional information available

### 12.3. Bio accumulative potential

No additional information available



## **SECTION 16: OTHER INFORMATION**

### **Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit.	Eye irritation
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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