

## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the product

Hydroxylammonium chloride

### Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

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## 2. Hazards identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Corrosive to Metals (Category 1)

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Skin sensitization (Category 1)

Carcinogenicity (Category 2)

Specific target organ toxicity - repeated exposure, Oral (Category 2)

Short-term (acute) aquatic hazard (Category 1)

Long-term (chronic) aquatic hazard (Category 1)

### Label elements

Pictogram



Signal word Warning

### Hazard statement(s)

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 (spleen) through prolonged or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

# GHTECH

## Material Safety Data Sheet

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|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P234               | Keep only in original container.                                                                                                 |
| P260               | Do not breathe dust.                                                                                                             |
| P264               | Wash skin thoroughly after handling.                                                                                             |
| P270               | Do not eat, drink or smoke when using this product.                                                                              |
| P272               | Contaminated work clothing should not be allowed out of the workplace.                                                           |
| P273               | Avoid release to the environment.                                                                                                |
| P280               | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                    |
| P301 + P312 + P330 | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.                                                      |
| P302 + P352 + P312 | IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.                                            |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/ attention.                                                                |
| P337 + P313        | If eye irritation persists: Get medical advice/ attention.                                                                       |
| P390               | Absorb spillage to prevent material damage.                                                                                      |
| P391               | Collect spillage.                                                                                                                |
| P405               | Store locked up.                                                                                                                 |
| P406               | Store in corrosive resistant container with a resistant inner liner.                                                             |
| P501               | Dispose of contents/ container to an approved waste disposal plant.                                                              |

Supplemental Hazard Statements  
none

### 3. Composition/information on ingredients

#### *Synonyms*

Hydroxylammonium chloride

CAS-No.: 5470-11-1

M: 69.49 g/mol

Molecular formula:H<sub>3</sub>NO• HCl

### 4. First aid measures

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire-fighting measures

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. Accidental release measures

**Personal precautions**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. Handling and storage****Precautions for safe handling**

Avoid inhalation of vapour or mist.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. Exposure controls and personal protection****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

**9. Physical and chemical properties**

**Form:** crystals

**Colour:** Colorless

**Odour:** not available

**pH value:** not available

**Melting point:** 159°C.

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 1.67 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** Soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

**Chemical stability**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agent, phosphorus pentachloride, calcium, anhydrous copper sulfate

**Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

**Acute toxicity**

LD50 Oral - Rat - male and female - 600 mg/kg

**Skin corrosion/irritation**

no data available.

**Serious eye damage/eye irritation**

no data available.

**Respiratory or skin sensitization**

May cause skin allergic reaction.

**Germ cell mutagenicity**

In vitro genotoxicity - Rat - embryo

Morphological deformation

In vitro genotoxicity - Hamster - Lung

Sister chromatid exchange

**Carcinogenicity**

Suspected human carcinogen

IARC: No component greater than or equal to 0.1% of this product has been identified by IARC as a probable or certain human carcinogen.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

Prolonged or repeated exposure may damage organs.

**Aspiration hazard**

no data available

## **12. Ecological information**

### **Toxicity**

Toxicity to fish LC50 - Leuciscus idus - 1 - 10 mg/l - 48.0 h

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

## **13. Disposal considerations**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **ADR/RID**

UN-Number: 2923 Class: 8 (6.1) Packing group: II

Proper shipping name: CORROSIVE SOLID, POISONOUS, NOT OTHERWISE SPECIFIED  
(HYDROXYLAMINE HYDROCHLORIDE)

### **IMDG**

UN-Number: 2923 Class: 8 (6.1) Packing group: II

Proper shipping name: CORROSIVE SOLID, POISONOUS, NOT OTHERWISE SPECIFIED  
(HYDROXYLAMINE HYDROCHLORIDE)

Marine pollutant:yes

### **IATA**

UN-Number: 2923 Class: 8 (6.1) Packing group: II

Proper shipping name: Corrosive solid, poisonous, not otherwise specified (hydroxylamine hydrochloride)

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.