

Revision Date: Dec.-7-2023  
Print Date: May.-1-2024

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Product name : Cysteamine (hydrochloride)  
Catalog No. : HY-77591  
CAS No. : 156-57-0

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

Identified uses : Laboratory chemicals, manufacture of substances.

### 1.3 Details of the supplier of the safety data sheet

Company: MedChemExpress USA  
Tel: 609-228-6898  
Fax: 609-228-5909  
E-mail: sales@medchemexpress.com

### 1.4 Emergency telephone number

Emergency Phone #: 609-228-6898

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Acute toxicity, oral (Category 4),H302  
Sensitisation, skin (Category 1, 1A, 1B),H317  
Serious eye damage/eye irritation (Category 2A),H319  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),H335  
Hazardous to the aquatic environment, acute hazard (Category 2),H401

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H401 Toxic to aquatic life

Precautionary statement(s)

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#### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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.

#### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse.

#### Storage

P405 Store locked up.

#### Disposal

P501 Dispose of contents/container to in accordance with local regulation.

### 2.3 Other hazards

None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

|                   |  |
|-------------------|--|
| Synonyms:         | 2-Aminoethanethiol (hydrochloride); 2-Mercaptoethylamine (hydrochloride) |
| Formula:          | C <sub>2</sub> H <sub>8</sub> ClNS                                       |
| Molecular Weight: | 113.61   |
| CAS No. :         | 156-57-0   |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

#### Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

#### Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

#### Ingestion

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Wash out mouth with water; Do NOT induce vomiting; call a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2).

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

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

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

During combustion, may emit irritant fumes.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 8.

#### 6.2 Environmental precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

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

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

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

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature: 4°C, protect from light, stored under nitrogen

\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

Shipping at room temperature if less than 2 weeks.

#### 7.3 Specific end use(s)

No data available.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

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### Components with workplace control parameters

This product contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

### Personal protective equipment

|                                 |  |
|---------------------------------|--|
| Eye protection                  | Safety goggles with side-shields.  |
| Hand protection                 | Protective gloves.   |
| Skin and body protection        | Impervious clothing.   |
| Respiratory protection          | Suitable respirator.   |
| Environmental exposure controls | Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                       |
|--|-----------------------|
| Appearance                                   | Solid                 |
| Odor   | No data available     |
| Odor threshold                               | No data available     |
| pH   | No data available     |
| Melting/freezing point                       | 67-71 °C              |
| Boiling point/range                          | 238.5 °C at 760 mmHg  |
| Flash point                                  | No data available     |
| Evaporation rate                             | No data available     |
| Flammability (solid, gas)                    | No data available     |
| Upper/lower flammability or explosive limits | No data available     |
| Vapor pressure                               | No data available     |
| Vapor density                                | No data available     |
| Relative density                             | 0.75g/cm <sup>3</sup> |
| Water Solubility                             | No data available     |
| Partition coefficient                        | No data available     |
| Auto-ignition temperature                    | No data available     |
| Decomposition temperature                    | No data available     |
| Viscosity                                    | No data available     |
| Explosive properties                         | No data available     |
| Oxidizing properties                         | No data available     |

### 9.2 Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

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## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available.

## 10.4 Conditions to avoid

No data available.

## 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

## 10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products - no data available.

# 11.TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute toxicity

Classified based on available data. For more details, see section 2

### Skin corrosion/irritation

Classified based on available data. For more details, see section 2

### Serious eye damage/irritation

Classified based on available data. For more details, see section 2

### Respiratory or skin sensitization

Classified based on available data. For more details, see section 2

### Germ cell mutagenicity

Classified based on available data. For more details, see section 2

### Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

### Reproductive toxicity

Classified based on available data. For more details, see section 2

### Specific target organ toxicity - single exposure

Classified based on available data. For more details, see section 2

### Specific target organ toxicity - repeated exposure

Classified based on available data. For more details, see section 2

### Aspiration hazard

Classified based on available data. For more details, see section 2

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#### **Additional information**

RTECS No.: KJ0200000

This information is based on our current knowledge. However the chemical, physical, and toxicological properties have not been completely investigated.

## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data available.

### **12.2 Persistence and degradability**

No data available.

### **12.3 Bioaccumulative potential**

No data available.

### **12.4 Mobility in soil**

No data available.

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

### **12.6 Other adverse effects**

No data available.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

#### **Product**

Dispose substance in accordance with prevailing country, federal, state and local regulations.

#### **Contaminated packaging**

Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

## **14. TRANSPORT INFORMATION**

### **DOT (US)**

Proper shipping name: AVIATION REGULATED SOLID,N. O. S.

UN number: 3335

Class: 9

Packing group: III

### **IMDG**

Proper shipping name: AVIATION REGULATED SOLID,N. O. S.

UN number: 3335

Class: 9

Packing group: III

### **IATA**

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Proper shipping name: AVIATION REGULATED SOLID,N. O. S.

UN number: 3335

Class: 9

Packing group: III

## 15. REGULATORY INFORMATION

### SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards:

Acute Health Hazards.

### Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components:

|                            | CAS No.  |
|----------------------------|----------|
| Cysteamine (hydrochloride) | 156-57-0 |

### New Jersey Right To Know Components:

|                            | CAS No.  |
|----------------------------|----------|
| Cysteamine (hydrochloride) | 156-57-0 |

### California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or anyother reproductive harm.

## 16. OTHER INFORMATION

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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