

**Material Safety Data Sheet****Cysteamine HCL****1. PRODUCT NAME AND COMPANY INFORMATION:****Product information :****Cysteamine HCL**

**Synonyms:** Cysteamine hydrochloride; 2-Aminoethanethiol hydrochloride; 2-Mercaptoethylamine hydrochloride; 2-aminoethane-1-thiol hydrochloride

**Molecule formula:** C<sub>2</sub>H<sub>7</sub>NS.HCl

**Molecule weight:** 113.61

**Contact Information:****Hefei TNJ Chemical Industry Co.,Ltd.**

B911 Xincheng Business Center  
Qianshan Road, Hefei  
230004Anhui  
China

Tel : (0086) 551 65418683  
Fax: (0086) 551 65418697  
Email: sales09@tnjchem.com  
Site: www.tnjchem.com

**2. COMPOSITION / INFORMATION ON INGREDIENTS:**

CAS#	Chemical	Name %	EINECS#
156 - 57-0	Cysteamine HCl	99% min.	205-858-1

Hazard Symbols: XN

Risk Phrases: 22 36/37/38

**3. HAZARDOUS IDENTIFICATION:**

**Emergency Overview:** Harmful if swallowed. Irritating to eyes, respiratory system and skin. Hygroscopic (absorbs moisture from the air). Light sensitive. Stench.

**Potential Health Effects:**

Eye: May cause eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: Not available.

**4. FIRST AID MEASURES:**

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES:

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## 6. ACCIDENTAL RELEASE MEASURES:

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

## 7. HANDLING AND STORAGE:

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances and sources of ignition.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Maintain concentration below recommended exposure limit. Local exhaust ventilation system may be required.

Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material.

### **Personal Protective Equipment:**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing and gloves to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid

Appearance: White powder

Odor: Stench

PH: 3 – 5

Vapor Pressure: Not available

Viscosity: Not available

Freezing/Melting Point: 62 – 70°C

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits, lower: Not Available.

Explosion Limits, upper: Not Available.

Decomposition Temperature : 150°C

Solubility in water: very soluble

Density: 0.75

## 10. STABILITY AND REACTIVITY:

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, exposure to moist air or water, direct sunlight.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## 11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS# 156-57-0: KJ0200000

LD50/LC50: CAS# 156-57-0: Oral, mouse: LD50 = 1352 mg/kg.

Carcinogenicity: Cysteamine HCl - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

## 12. ECOLOGICAL EFFECTS:

No data available.

## 13. DISPOSAL CONSIDERATIONS:

Dispose of in a manner consistent with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION:

### IATA

Shipping Name: None Hazard Class:None

UN Number: N o n e Packing Group:

### IMO

Shipping Name: Not regulated. Hazard Class:

UN Number:

Packing Group:

### RID/ADR

Shipping Name: Not regulated. Hazard Class:

UN Number: Packing group:

## 15. REGULATORY INFORMATION:

### European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols: None

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin. Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

### WGK (Water Danger/Protection)

CAS# 156-57-0: No information available.

### Canada

CAS# 156-57-0 is listed on Canada's DSL List.

CAS# 156-57-0 is not listed on Canada's Ingredient Disclosure List.

### US FEDERAL

TSCA

CAS# 156-57-0 is listed on the TSCA inventory.

## 16. OTHER INFORMATION:

The information provided in this material safety data sheet is correct to The best of our knowledge.No warranty is expressed or implied regarding the accuracy of These data or the results to be obtained from the use there of **Hefei TNJ Chemical Industry Co.,Ltd.** assumed no responsibility for any personal injury or property damage caused by the materials Users assume all risks associated with the use of the materials.