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Material Safety Data Sheet

Cysteamine Hydrochloride

Section 1: Chemical Product and Company Identification

Product:Cysteamine HCL

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

Molecule formula: C2H7NS.HCl

CAS: 156-57-0

Molecule weight: 113.61

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	By Weight
Cysteamine HCl	156-57-0	99%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards 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 causes 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.

Section 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 cups 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.

Section 5: Fire and Explosion Data

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.

Section 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.

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.

Section 8: Exposure Controls/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 14 must be followed whenever workplace conditions warrant a respirator's use. Always Use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 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

Section 10: Stability and Reactivity Data

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.

Section 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.

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

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

Section 14: Transport Information

IATA

Shipping Name: None regulated

Hazard Class:None

UN Number: None

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:

Section 15: Other 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.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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