



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### CYSTAMINE DIHYDROCHLORIDE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Revision Date: August 2007

Synonyms: 2-Aminoethyl Disulfide Dihydrochloride, 2,2' Dithio-Bis-(Ethylene) Dihydrochloride

CAS #: 56-17-7

DOT Hazard Class: Not Regulated.

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Cystamine Dihydrochloride 98%+

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White powder,  
Avoid contact and inhalation. Emits toxic fumes under fire conditions

POTENTIAL HEALTH EFFECTS:

Inhalation: May be harmful to the respiratory system.

Ingestion: May be harmful if swallowed.

Skin & Eye Contact: May cause irritation.

Target Organs: No information

CARCINOGENICITY: Not listed under OSHA, IARC or NTP.

#### SECTION 4 - FIRST AID MEASURES:

If swallowed:, Wash out mouth with water provided person is conscious. Call a physician.

In case of skin contact: Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

If inhaled: Remove to fresh air. If breathing becomes difficult, call a physician.

In case of contact with eyes: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media:

Use media that is appropriate to treat surrounding fire or water spray, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard: May emit toxic fumes under fire conditions.

Auto Ignition Temperature: Unknown

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## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled material, sweep up, collect and place in a disposal container.

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## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

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## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: If dusty use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE GUIDELINES: None Established

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): Not Known

Percent Volatile by Volume (%): Not Applicable

Melting Point: 217°- 220°C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Appreciable

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## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures .

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, nitrogen oxides, sulfur oxides and hydrogen chloride gas.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

IPR-MUS LD<sub>50</sub> >405 mg/kg

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## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

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## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

RCRA WASTE #:Not Listed

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## **SECTION 14 - TRANSPORTATION INFORMATION**

DOT HAZARD CLASS: Not Regulated

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## **SECTION 15 - REGULATORY INFORMATION**

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Unlisted

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## **SECTION 16 - OTHER INFORMATION**

Not Available

Reason for issue: Changed Date

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