




**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

1533 W.Henrietta Rd.
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MSDS No. CC 585
Effective Date February 19, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	L (+) CYSTEINE HYDROCHLORIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 4	Health	1
Chemical Synonyms	Bata-Mercaptoalanine•HCl		Fire	1
Formula	C ₃ H ₇ NO ₂ S•HCl		Reactivity	0
Unit Size	up to 100 grams			
C.A.S. No.	52-89-1			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
L (+) Cysteine Hydrochloride	100%	None established.
CAUTION! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.		

SECTION III PHYSICAL DATA

Melting Point (°F)	175 - 178°C (347 - 352.4°F)	Specific Gravity (H ₂ O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	N/A
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Very soluble.		
Appearance & Odor	White crystalline powder; odorless. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide, dry chemical, water spray or fog.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard when exposed to heat or flame. Dust-air mixtures may ignite or explode. When heated to decomposition, emits toxic fumes of oxides of sulfur, oxides of nitrogen, and chlorides. Can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

CC585

Threshold Limited Value

None established.

Effects of Overexposure

TARGET ORGANS AFFECTED: Skin, eyes.
SKIN: May cause irritation. **EYES:** May cause irritation.
Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
SKIN: Flush with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** Contact a physician or Poison Control Center immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Sensitive to air.
	Stable	X	Excessive temperatures and heat.

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of oxides of sulfur, oxides of nitrogen, and chlorides.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Care should be taken to avoid causing dust to become airborne. Sweep or vacuum up and place in a suitable container for disposal. Wash spill area with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed chemical waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.

Other Protective Equipment	Goggles, smock, apron, proper gloves, ventilation hood and eye wash station.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not breathe dust. Avoid contact with skin and eyes.
Hygroscopic. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 3	Date	2/19/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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