



L-Cystine dihydrochloride

Safety Data Sheet

SECTION 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name : L-Cystine dihydrochloride

CAS# : 30925-07-6 EC# : 250-391-9

Synonyms 2-amino-3-[(2-amino-2-carboxyethyl) disulfanyl]propanoic acid; dihydrochloride

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

BioSpectra, Inc. 100 Majestic Way

Supplier : Bangor, PA 18013

610-599-3400 ehs@biospectra.us

1.4 Emergency Numbers

Emergency Numbers : US & Canada: 1-800-424-9300

: Outside the US & Canada: +1 703-527-3887

SECTION 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910

Acute Toxicity, Oral: Not applicableSkin Irritation: Not applicableEye Irritation: Not applicableAcute Aquatic Toxicity: Not applicableChronic Aquatic Toxicity: Not applicableSpecific Target Organ Toxicity: Not applicable

2.2 GHS Label Element Including Precautionary Statements

Pictogram

Signal Word : Warning

Hazard Statement(s)

: H315 - Causes skin irritation: H320 - Causes eye irritation

Precautionary Statement(s)

P280 - Wear protective gloves/eye protection/face protection/protective clothing.

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

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.

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2.3 Hazards not Classified or not Covered by the GHS

Not applicable.

SECTION 3 - Composition, Information on Ingredients

3.1 Substances

Component	Classification	Concentration
L-Cystine dihydrochloride	N/A	≥99%

Synonyms 2-amino-3-[(2-amino-2-carboxyethyl) disulfanyl]propanoic acid; dihydrochloride

Formula : $C_6H_{12}N_2O_4S_2 \cdot 2HCl$ Molecular weight : 313.22 g/mol

CAS# : 30925-07-6 EC# : 250-391-9

SECTION 4 - First Aid Measures

4.1 Description of Necessary First Aid Measures

General Advice

Eyes

Remove any contact lenses. Flush eyes with water for at least 15 minutes

Wash off with soap and plenty of water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Ingestion

DO NOT induce vomiting unless directed to do so by a medical professional. Never give anything by mouth to an unconscious person. Rinse mouth with water. If large quantities are swallowed, call a physician immediately.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific Hazards Associated with this Chemical

Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen chloride gas.

5.3 Special Equipment/Precautions for Firefighters

Wear self-contained breathing apparatus for firefighting is necessary.

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental Precautions

Do not let enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.

7.2 Conditions for Storage Including any Incompatibilities

Keep away from heat. Keep away from sources of ignition. Keep container tightly closed, store in a dry and well-ventilated place.

SECTION 8 - Exposure Controls, Personal Protection

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8.1 Control Parameters

Chemical does not contain any substances with occupational exposure limits.

8.2 Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

8.3 Personal Protective Measures

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 gloves to prevent skin exposure. Wear impervious gloves: Nitrile rubber with layer thickness 0.11mm.

Clothing

Wear appropriate impervious protective clothing to minimize contact with skin.

Respirators

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Where protection from nuisance levels of dust are desired use type N95 (US) or type P1 (EN143) dust masks.

SECTION 9 – Physical and Chemical Properties

9.1 Chemical Property Information

Physical State : Solid

Appearance : White to pale yellow

Odor Not available рH Not available Vapor Pressure Not available Vapor Density Not available Viscosity Not available **Melting Point** 228-232 °C **Boiling Point** Not available Flashpoint Not available Solubility Not available Relative Density Not available

Molecular Formula $C_6H_{12}N_2O_4S_2 \cdot 2HCl$ Molecular Weight 313.22 g/mol

SECTION 10 - Stability and Reactivity

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Conditions to Avoid

Excessive heat.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents.

10.4 Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen chloride gas.

10.5 Hazardous Polymerization

Not applicable.

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SECTION 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50 Not applicable

Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

Serious Eye Damage/Irritation May cause irritation Skin Corrosion/Irritation May cause irritation Respiratory or Skin Sensitization May cause irritation **Epidemiology** Not applicable Teratogenicity Not applicable Reproductive Effects Not applicable Neurotoxicity Not applicable Mutagenicity Not applicable Other Studies Not applicable RTECS Not applicable

SECTION 12 - Ecological Information

12.1 Ecotoxicity

Not applicable.

12.2 Persistence and Degradability

Not applicable.

12.3 Bioaccumulative Potential

Not applicable.

12.4 Mobility in Soil

Not applicable.

12.5 Result of PBT and vPvB assessment

PBT/vPvB assessment not available, chemical safety assessment not required/conducted.

12.6 Other Adverse Effects

Not applicable.

SECTION 13 - Disposal Considerations

13.1 Disposal Methods

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

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG
Shipping Name:			
Hazard Class:	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
UN Number:			
Packing Group:			

SECTION 15 - Regulatory Information

OSHA Hazards Not applicable

DUN: BSI-SDS-0049, Revision: 1.1, Effective Date: 29 Jun 2023, Date of Next Review: 29 Jun 2026.

SARA:

SARA Section 302

SARA Section 313

SARA Section 311/312

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

: No SARA Hazards.

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.

STATE SPECIFIC:

Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components California Prop. 65 Components L-Cystine dihydrochloride CAS# 30925-07-6
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This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 - Additional Information

16.1 Hazard Ratings:

NFPA Rating			
Health Hazard	1		
Fire Hazard	1		
Reactivity Hazard	1		

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any fost profits or any special indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.