

1 Identification

Product Name: L-Cystine

Catalog Number: C018

Company: Caisson Laboratories

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Recommended Use: For research and laboratory use only.

Restrictions On Use: This product is intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2 Hazard(s) Identification

Classification of the Substance or Mixture

GHS Classification: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Signal Word: Not Hazardous

Hazard Statements

Not a hazardous substance or mixture.

Precautionary Statements

Not a hazardous substance or mixture.

Pictograms:

3 Composition / Information on Ingredients

Synonyms: (R,R)-3,3'-Dithiobis(2-aminopropanoic acid); L-Cystine Free Base

Formula: C₆H₁₂N₂O₄S₂

Molecular Weight (g/mol): 240.30

CAS Number: 56-89-3

EC Number: 200-296-3

Component	Concentration (%)	Classification
L-Cystine	98.5 - 102	Not a hazardous substance or mixture.

4 First-Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Exposure

If swallowed: If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

In case of skin contact: Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

In case of eye contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

If inhaled: Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Recommendation for immediate medical care and special treatment needed: No data available.

5 Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Sulfur oxides

Additional Information: No data available.

6 Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and material for containment and cleanup: Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 Handling and Storage

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

Conditions for safe storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture.

Recommended storage temperature: Room Temperature

Incompatibilities: Strong oxidizing agents, Metals

8 Exposure Controls / Personal Protection

OSHA Permissible Exposure Limits (PELs): No data available.

ACGIH Threshold Limit Values (TLVs): No data available.

Engineering controls: Provide appropriate exhaust ventilation at places where dust is formed.

Personal Protective Equipment (PPE)

Eye/face protection: Wear chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin protection: Wear protective gloves.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body protection: Wear lab coat, gown, or coveralls to protect from exposure.

9 Physical and Chemical Properties

Appearance: White Crystalline Flakes

pH: No data available.

Solubility: Soluble in HCl

Specific Gravity: No data available.

Melting Range: > 240 °C

Odor: No data available.

Odor Threshold: No data available.

Viscosity: No data available.

Relative Density: No data available

Evaporation Rate: No data available.

Initial Boiling Point and Boiling Range: No data available.

Flash Point: No data available.

Flammability (Solid, gas): No data available.

Flammability Upper/Lower Limits: No data available.

Partition Coefficient: n-octanol/water: No data available.

Vapor Density: No data available.

Vapor Pressure: No data available.

Auto-ignition Temperature: No data available.

Decomposition Temperature: No data available.

10 Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibilities of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: Strong oxidizing agents, Metals

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx), Sulfur oxides

11 Toxicological Information

Toxicity: No data available.

Carcinogenicity

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available.

Symptoms associated with overexposure: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Target Organs: No data available.

Medical conditions aggravated by exposure: No data available.

Routes of entry: No data available.

NIOSH/RTECS: Not available

12 Ecological Information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: No data available.

13 Disposal Considerations

Disposal of Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Disposal of Packaging: Dispose of as unused product.

14 Transport Information

DOT (US)

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN/NA number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

IMDG

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

IATA

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN Number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

15 Regulatory Information

TSCA: Listed

SARA Title III

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

16 Other Information

HMIS Rating

Health hazard: 0

Chronic health hazard: 0

Flammability: 0

Physical hazard: 0

NFPA Rating

Health hazard: 0

Fire hazard: 0

Reactivity: 0

Special Hazard:

Further information: All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Revision Date: 20 Aug, 2018