

# SAFETY DATA SHEET

## L-CYSTEINE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name: L-Cysteine**  
**Catalog Number: CYS555**

### SECTION 2 HAZARDS IDENTIFICATION

**Emergency overview:**

**GHS Classification:** not a hazardous substance

**Potential Health Effects:**

**Target Organs:** None known  
**Eyes:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Inhalation:** May cause irritation. May be harmful  
**Ingestion:** May be harmful if swallowed  
**CHRONIC HEALTH HAZARDS:** Not available

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
L-Cysteine	52-90-4	98+

**Molecular Formula:** C3H7NO2S  
**Molecular Weight:** 121.2

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.  
**Skin:** Flush area immediately with plenty of soap and water .  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration .Get medical attention if symptoms persist.  
**Ingestion:** Wash mouth with water.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gase and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.  
**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits: none listed**

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.

**Personal Protection:** Lab coat, safety goggles, rubber gloves.

**Ventilation:** Use appropriate exhaust ventilation .

**Respiratory protection:** use OSHA/MSHA approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

**Appearance and Odor:** white crystalline powder, no odor

**Freezing/Melting Point:** N/A

**Boiling Point:** N/A

**Specific Gravity:** N/A

**Vapor Density:** N/A

**Solubility:** soluble in 0.1 N HCl

**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** dust generation. Excess heat

**Incompatibility:** Strong oxidizing agents

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxides

**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**

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LD50 / LC50:  
No data available

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Toxicity:**  
No information found.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATION</b>
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**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**Shipping Information:**

DOT (US): not dangerous  
IMDG: not dangerous  
IATA: not dangerous

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**US :** TSCA: listed  
**European/International:** Do not breathe dust.. Avoid contact with skin and dust.  
**Canada:** WHMIS: not controlled

<b>SECTION 16</b>	<b>ADDITIONAL INFORMATION</b>
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Prepared By: M.Kierdelewicz (President)  
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Observe all federal, provincial and state laws concerning health, safety and pollution.