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## Material Safety Data Sheet

Effective Date: 03-29-10

### I. CHEMICAL PRODUCT

**Product:** L-Cystine, Disodium Salt  
**General Use:**

### II. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

MF:  $C_6H_{10}N_2O_4S_2Na_2$   
M.W.: 284.3

CAS No: 64704-23-0  
EINECS No:200-296-3  
OSHA PEL: Not listed

Alternate Names:

### III. HAZARDS IDENTIFICATION

Irritating to upper respiratory tract, eyes, and skin  
Harmful if swallowed, inhaled, or absorbed through the skin  
Risk Phrases: Not listed  
Safety Phrases: Not listed

### IV. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid..  
Skin: Wash with soap and copious amounts of water. Remove contaminated shoes and clothing. If irritation persists seek medical attention.  
Ingestion: Rinse mouth with water and seek medical attention.  
Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

### V. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguisher media appropriate for surrounding fire.  
Fire Fighting Procedures: Self-contained breathing apparatus pressure demand MSHA/NIOSH approved mask and full protective gear.  
Explosions Hazards: May emit toxic fumes under fire conditions.

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**Biological Buffers • UltraPure Reagents**

## VI. ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind.

## VII. HANDLING AND STORAGE

Handling: Vacuum or sweep up material and place in a disposal container. Clean up spills immediately under qualified supervision observing precautions in Protective Equipment section. Avoid clean up procedures that generate dust or result in water pollution. After removal scrub the contaminated area with detergent and flush thoroughly with water. Absorb wash liquid and place in the disposal container. Do not flush to sewer. Avoid runoff into storm sewers and ditches, which lead to waterways.

Storage: Store in freezer. Keep containers tightly closed and upright when not in use.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control: Eyewash station and safety shower. Local exhaust ventilation.  
Respiratory Protection: NIOSH/MSHA mask. Utilize local exhaust ventilation.  
Eye Protection: Do not wear contact lenses. Chemical safety goggles with side shields.  
Skin/Hand Protection: Chemical resistant gloves. Showering and changing into street clothes after work is recommended.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid  
Boiling Point: No data  
Melting Point: No data  
Bulk density: No data  
Solubility in water: No data  
Vapor density (air =1): No data  
Vapor pressure (mm Hg at 20°C.): No data  
% Volatile by volume: No data

## X. STABILITY AND REACTIVITY

Flash Point: N/A.  
Stability: Stable under normal temperatures and pressure  
Incompatibility: Strong oxidizing agents  
Hazardous decomposition products: CO, CO<sub>2</sub>, NO<sub>x</sub>, and/or SO<sub>x</sub> (combustion)  
Hazardous polymerization: Will not occur

## XI. TOXICOLOGICAL INFORMATION

Toxicity: Have not been fully investigated  
Irritation:  
Note:

## XII. ECOLOGICAL INFORMATION

Water/AIR Pollution: No data available  
Biodegradability: No data available

### **XIII. DISPOSAL CONSIDERATIONS**

Waste Disposal Method:

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. If the material is determined to be hazardous waste, the transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with CFR 262, 263, 264, 268, and 270. Disposal can occur only in properly permitted facilities.

Container Disposal:

### **XIV. TRANSPORT INFORMATION**

UN No: N/A.

### **XV. REGULATORY INFORMATION**

Canadian WHMIS Hazard Class and Division:	Not listed
Symbol (European Union):	Not listed
EEC Warning Label Statement:	Not listed
Water Pollution Class (Germany):	Not listed

### **XVI. OTHER INFORMATION**

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide for safety precautions. The data does not reflect a guarantee of any product properties.