

United Biochemicals
6351 Inducon Drive East
Sanborn, New York, USA
Emergency Number (Spills and Exposures): 800-424-9300 (CHEMTREC)

TEL: 716-731-5161
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Material Safety Data Sheet

Effective Date: 05-23-02

I. CHEMICAL PRODUCT

Product: L-Cystine, Disodium Salt

II. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

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

CAS No: 199329-53-8
EINECS No:200-296-3
OSHA PEL: Not listed

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.

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, CO₂, Nox, and/or SO_x (combustion)

Hazardous polymerization: Will not occur

XI. TOXICOLOGICAL INFORMATION

Toxicity: Have not been fully investigated

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.

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.