

L-γ-Glutamyl-L-cysteinyl-L-lysine: sc-211714



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical and Company Information

<i>Chemical Name</i>	L-γ-Glutamyl-L-cysteinyl-L-lysine	<i>Supplier</i>	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800
<i>Synonyms</i>	N2-(N-L-γ-Glutamyl-L-cysteinyl)-L-lysine;		
<i>Catalog Nbr</i>	sc-211714	<i>Emergency</i>	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112
<i>Cas Reg. No</i>	128960-73-6		

Section 2 - Hazardous Ingredients / Identity Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 3 - Physical/Chemical Characteristics

<i>Boiling Point</i>	N/A	<i>Appearance and Odor</i>	Pale Yellow Solid
<i>Vapor Pressure</i>	N/A	<i>Specific Gravity(H₂O=1)</i>	N/A
<i>Vapor Density</i>	N/A	<i>Melting Point</i>	193-196°C
<i>Solubility in Water</i>	N/A	<i>Evaporation Rate (Butyl Acetate=1)</i>	N/A
<i>Molecular Formula</i>	C₁₄H₂₆N₄O₆S	<i>Molecular Weight</i>	378.44

Section 4 - Reactive Data

<i>Stability</i>	Store in Freezer, hygroscopic store under inert atmosphere	<i>Incompatibility (Materials to Avoid)</i>	Strong oxidizing agents
<i>Conditions to Avoid</i>	Strong oxidizing agents		
<i>Hazardous Decomposition or Byproducts</i>	Toxic Fumes of: carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides	<i>Hazardous Polymerization</i>	Will not occur

Section 5 - Control Measures

<i>Respiratory Protection</i>	Niosh/Msha approved respirator	<i>Ventilation</i>	Use in fume hood
<i>Protective Gloves</i>	chemical resistant gloves	<i>Eye Protection</i>	safety goggles
<i>Other Protective Clothing</i>	lab coat, apron	<i>Other Protection</i>	Safety shower and eyewash

Section 6 - First Aid Measures

<i>Inhalation</i>	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
<i>Skin</i>	In case of skin contact, flush with copious amounts of water for atleast 15 minutes. Remove contaminated clothing and shoes. Call a physician.
<i>Ingestion</i>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<i>Eyes</i>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Section 7 - Health Hazard Data

*Health Hazards
(Acute and Chronic)*

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

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A bifunctional trapping agent (γ-Glutamylcysteinyllysine) is investigated as an alternative of GSH for simultaneous trapping both "hard" and "soft" reactive metabolit

*Medical Conditions
Generally Aggravated by
Exposure*

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Section 8 - Precautions for Safe Handling and Use

*Steps to be Taken in
Case Material is
Released or Spilled*

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal.

Waste Disposal Method

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

*Precautions to Be
Taken in Handling
and Storage*

Keep tightly closed. Store in a cool dry place.
Store at -20° C

Section 9 - Fire and Explosion Hazard Data

Extinguishing Media

Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

*Special Fire Fighting
Procedures*

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

*Unusual Fire and
Explosion Hazards*

Emits toxic fumes under fire conditions.

Section 10 - Transportation Information and regulatory information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

7/14/2010