

# L-Cysteine-glutathione Disulfide: sc-211701



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### Section 1: Product & Company Identification

**Product Name:** L-Cysteine-glutathione Disulfide  
**Catalog Number:** sc-211701  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### Section 2: Hazards identification

#### Classification of the substance or mixture

##### Classification under CHIP

R36/37/38 Xi

##### Classification under CLP

H315 Skin Irrit. 2  
H319 Eye Irrit. 2  
H335 STOT SE 3

**Most important adverse effects:** Irritating to eyes, respiratory system and skin.

#### Label elements under CLP

##### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

##### Hazard pictograms

GHS07 Exclamation mark



Signal words Warning

##### Precautionary statements

P261 Avoid breathing dust.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Label elements under CHIP

##### Hazard symbols



##### Risk phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

##### Safety phrases

S22 Do not breathe dust.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Other hazards**

**PBT:** This substance is not identified as a PBT substance.

**Section 3: Composition/information on ingredients**

**Chemical identity:** L-CYSTEINE-GLUTATHIONE DISULPHIDE  
**Formula:** C13H22N4O8S2  
**Molecular Weight:** 426.50  
**CAS Number:** 13081-14-6

**Section 4: First aid measures****Skin contact**

Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact**

Bath the eye with running water for 15 minutes. Consult a doctor.

**Ingestion**

Wash out mouth with water. Consult a doctor.

**Inhalation**

Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**Most important symptoms and effects, both acute and delayed**

<b>Skin contact</b>	There may be irritation and redness at the site of contact.
<b>Eye contact</b>	There may be irritation and redness. The eyes may water profusely.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat.
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Section 5: Fire-fighting measures****Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used. Extinguish with carbon dioxide, dry chemical, foam or waterspray.

**Special hazards arising from the substance or mixture**

In combustion emits toxic fumes.

**Advice for fire-fighters**

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

**Section 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Do not create dust.

**Environmental precautions**

Do not discharge into drains or rivers.

**Methods and material for containment and cleaning up**

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**Section 7: Handling and storage****Precautions for safe handling**

Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance. Only use in fume hood.

**Conditions for safe storage, including any incompatibilities**

Store in cool, well ventilated area. Keep container tightly closed. Store at -20 °C.

**Suitable packaging**

Must only be kept in original packaging.

## Section 8: Exposure controls/personal protection

### Control parameters

#### Workplace exposure limits

Not applicable.

#### Exposure controls

##### Engineering measures

Ensure there is sufficient ventilation of the area.

##### Respiratory protection

Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

##### Hand protection

Protective gloves.

##### Eye protection

Safety glasses. Ensure eye bath is to hand.

##### Skin protection

Protective clothing.

## Section 9: Physical and chemical properties

Form	Powder	Odor	No data available
Evaporation rate	No Data Available	Oxidizing	No data available
Solubility in water	No Data Available	Also soluble in	No data Available
Viscosity	Not available	Boiling point/range°C	Not known
Melting point/range°C	234	Flash point°C	Not known
Part.coeff. n-octanol/water	Not known	Vapor pressure	Not known
Relative density	Not known	pH	Not known
VOC g/l	Not known		

## Section 10: Stability and reactivity

### Reactivity

Stable under recommended transport or storage conditions.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

#### Conditions to avoid

Heat.

#### Incompatible materials

Strong oxidizing agents. Strong acids.

#### Hazardous decomposition products

In combustion emits toxic fumes.

## Section 11: Toxicological information

### Information on toxicological effects

#### Relevant hazards for substance

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

#### Symptoms / routes of exposure

<b>Skin contact</b>	There may be irritation and redness at the site of contact.
<b>Eye contact</b>	There may be irritation and redness. The eyes may water profusely.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat.
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

## **Section 12: Ecological information**

### **Toxicity**

**Ecotoxicity values:** Not applicable.

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No bioaccumulation potential.

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

**PBT identification:** This substance is not identified as a PBT substance.

### **Other adverse effects**

No data available.

## **Section 13: Disposal considerations**

### **Waste treatment methods**

### **Disposal operations**

MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

### **Disposal of packaging**

Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

### **NB**

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## **Section 14: Transport information**

### **Transport class**

This product does not require a classification for transport.

## **Section 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### **Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## **Section 16: Other information**

*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.*

1/15/2014