

S-Methyl-L-Cysteine-S-oxide: sc-204899



The Power to Question

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	S-Methyl-L-Cysteine-S-oxide	EMERGENCY	ChemWatch
CAS NUMBER	6853-87-8		Within the US & Canada: 877-715-9305
CATALOG NUMBER	sc-208243		Outside the US & Canada: +800 2436 2255
SYNONYMS	ND		(1-800-CHEMCALL) or call +613 9573 3112
SUPPLIER	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800		

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percentage*	Exposure Limits/Health Hazards
S-METHYL-L-CYSTEINE SULFOXIDE	6853-87-8	100 %	No Exposure limits established by OSHA or ACGIH MAY BE IRRITATING, MAY BE HARMFUL.

*Values do not reflect absolute minimums and maximums; those values may vary from time to time.

3 HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! May be harmful, may be irritating. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential Health Effects Skin

This material May cause skin irritation. Reddening, itching and inflammation may result.
May be absorbed through the skin.

Potential Health Effect Eyes

Direct contact may cause irritation, redness, tearing and blurred vision.

Potential Health Effects Inhalation

May cause irritation to the respiratory tract.
This material may cause injury or illness if inhaled.

Potential Health Effect Ingestion

If ingested, this material may cause irritation to the mouth, throat and gastrointestinal tract.
May be harmful if swallowed.

Special Toxic Effects

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.

Target Organs

ND

4 FIRST AID MEASURES

Skin

Immediately flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing and shoes. Contaminated clothing must be laundered before reuse. Get medical attention if irritation develops or persists.

Eyes

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Get medical attention if irritation persists.

Inhalation

Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen.

Get medical attention.

Ingestion

If swallowed, wash out mouth with water provided person is conscious.

Never give anything by mouth to an unconscious person. Get medical attention.

5 FIRE FIGHTING MEASURES

Hazardous Combustion Products

MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

Extinguishing Media

Use extinguisher media appropriate for surrounding fire.

Basic Fire Fighting Procedure

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate the area and fight fire from a safe distance.

Unusual Fire and Explosion Hazards

None known to manufacturer.

Flash Point Temperature	ND (Solid)
Autoignition Temperature	ND
Flammability Limits in Air Lower	ND
Flammability Limits in Air Upper	ND

6 ACCIDENTAL RELEASE MEASURES

Emergency Action

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind. (See Personal Protection Information Section.)

Environmental Precautions

Isolate hazard area and deny entry. Keep unnecessary people away. Take immediate steps to stop and contain the spill. Caution should be exercised regarding personnel safety and exposure to the spilled material.

Spill or Leak Procedure

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 disposable container. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

7 HANDLING AND STORAGE

Handling

DO NOT GET IN EYES, ON SKIN OR CLOTHING.

Minimize dust generation during handling and contact.

Wash hands thoroughly before eating, drinking or smoking.

Storage

Store in freezer.

Keep containers tightly closed and upright when not in use.

Storage Hazards

Store away from oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Facilities using or storing this material must be equipped with an eyewash station and safety shower.

Eye Protection PPE

Do not wear contact lenses when working with this substance.

Wear chemical safety glasses with side shields.

Skin Protection PPE

Avoid skin contact with this material. Use appropriate chemical protective gloves when handling.

Showering and changing into street clothing after work is recommended.

Respiratory Protection PPE

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.

Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstance where air purifying respirators may not provide adequate protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

WHITE TO TAN POWDER

Boiling Point	ND
Melting Point	ND
Freezing Point	ND
Vapor Density	ND
Vapor Pressure	ND
Specific Gravity	ND
Molecular Formula	C ₄ H ₉ NO ₃ S
Molecular Weight	151.2
pH	ND

10 STABILITY / REACTIVITY

Stability/Incompatibility

Stable under normal conditions of use.
Incompatible with strong oxidizing agents.

Decomposition Products

Combustion may produce CO, CO₂, NO_x and/or SO_x.

Hazardous Polymerization

Will not occur.

11 TOXICOLOGICAL INFORMATION

Mutation Data: Mutation in microorganisms - Salmonella typhimurium = 200 ug.

Only selected toxicological data is presented here. See actual entry in RTECS for complete information.

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. FOLLOW GOOD LABORATORY PRACTICES WHEN HANDLING.

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

LD50

REGISTRY OF THE TOXIC EFFECTS OF CHEMICAL SUBSTANCES(RTECS)

RTECS # AY7100000

NO ORAL LD50 IN RATS INFORMATION IS AVAILABLE.

Carcinogenicity

NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN

12 ECOLOGICAL INFORMATION

EcoToxicological Information

DATA NOT YET AVAILABLE.

Chemical Fate Information

DATA NOT YET AVAILABLE.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

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 a hazardous waste, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities.

14 TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

Proper Shipping Name CHEMICALS, N.O.S

Hazard Class NA (SOLID)

UN/NA Code NA

Packaging Group NA

Reportable Quantity None

Labels Required NA

Marine Pollutant (49 CFR 172.101 Appendix B) No

15 REGULATORY INFORMATION

Federal Regulations

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products NOT on the inventory list: (i) This product is supplied solely for use in Research and Development by

or under the supervision of a technically qualified individual as defined by 40 CFR 720.0 et.sec.
(ii) The health risks of this product have not fully been determined. Any information that is or becomes available will be supplied on a Material Safety

Data Sheet. Uses other than for Research and Development may constitute a violation of TSCA.

State Regulations

Based on available information this material does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

Reformulation, use or processing of this product may affect its composition and would require re-evaluation

International Regulations

ND

International Phrases

R - ND Not Determined

S - ND Not Determined

EINECS - ND

SARA TITLE III RATINGS

**Immediate
Hazard**

☐

**Delayed
Hazard**

☐

**Fire
Hazard**

☐

**Pressure
Hazard**

☐

**Reactivity
Hazard**

☐

☐ *Section 313 Supplier Notification:*

If this box is checked, this product contains EPCRA 313 chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). If you are unsure whether you are subject to reporting requirements or need more information, call EPA's ECPRA Call Center at (800) 424-9346 or (703) 412-9810.

NFPA Ratings

Health	Flammability	Reactivity	Special Hazards
-	-	-	-

HMIS RATINGS

Health	Flammability	Physical Hazard	Personal Protection Equipment
1	0	0	E

16 OTHER INFORMATION

Disclaimer

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.

02/23/2010