Page 1 of 6



MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

DL-METHIONINE (1-13C, 99%) **Product Description**

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

Phone

1-800-322-1174 (8:30-5:30 EST)

Transportation 1-202-483-7616 (24 hours)

2 **HAZARDS IDENTIFICATION**

OSHA Hazards

No known OSHA hazards

HMIS Ratings

Physical 0 Flammability 0 Health 0

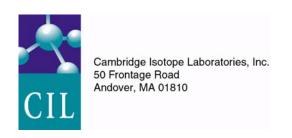
NFPA Codes

0 Fire Health 0 0 Reactivity

Potential Health Effects

Eyes Contact may cause eye irritation. Ingestion May be harmful if swallowed.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.



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3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Synonyms DL-2-Amino-4-(methylthio)butanoic acid.

Chemical Formula *CC4H11NO2S

Molecular Weight 150.21

CAS No. 59-51-8 (unlabeled)

EC No. 200-432-1

4 FIRST AID MEASURES

First Aid Measures

Eyes Flush eyes with water as a precaution.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin Wash with soap and plenty of water. Consult a physician.

Additional Information

Move out of dangerous area. Consult a physician and show this safety data sheet.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

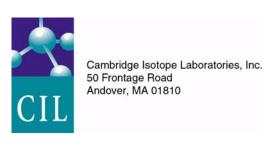
Equipment

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Avoid dust formation. Avoid breathing vapors, mist or gas.

Precautions



Page 3 of 6

MATERIAL SAFETY DATA SHEET

Environmental

Do not empty into drains.

Precautions

cleanup

Methods and materials for containment and Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

EXPOSURE CONTROL / PERSONAL PROTECTION 8

Personal Protecton

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Choose body protection according to the amount and concentration of the dangerous substance at

the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Work Hygienic

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

Practices and at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Powder Form

Color White

No data available pΗ



Page 4 of 6

MATERIAL SAFETY DATA SHEET

Melting Point 280 °C (536 °F) **Boiling Point** 186 °C (367 °F) Flashpoint No data available No data available Lower Explosion

Limit

Upper Explosion

Limit

Solubility in Water

Auto Ignition

No data available

No data available No data available

Temperature

STABILITY AND REACTIVITY 10

Stability and Reactivity

Stable if stored under recommended conditions. Chemical Stability

Possibility of Not available. Hazardous

Conditions to Avoid Not available.

Hazardous decomposition products

Reactions

Under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

Materials to avoid Strong oxidizing agents

11 **TOXICOLOGICAL INFORMATION**

Acute Toxicity

No data available Serious

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell Mutagenicity Not available

Page 5 of 6



Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810

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IARC No component of this product present at levels greater than or equal to 0.1% is identifiable as

probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identifiable as a

carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1% is identifiable as a

known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive

Toxicity

Not available

Specific Target Organ Toxicity

Single Exposure No data available Repeated Exposure No data available

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

Other Information

General Comments Not available

12 **ECOLOGICAL INFORMATION**

Toxicity

Persistance and Degradability

Not available

Mobility in Soil

Not available

Other Adverse

Not available

Effects

13 **DISPOSAL CONSIDERATIONS**

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG



Page 6 of 6

MATERIAL SAFETY DATA SHEET

Special Shipping

Not dangerous goods.

Notes

15 **REGULATORY INFORMATION**

Regulatory Information

No known OSHA hazards

SARA

Sara 302 No chemicals in this material are subject to the reporting requirements.

Component

Sara 313

No chemicals in this material are subject to the reporting requirements.

Component

STATE REGULATIONS

Massachusetts No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

to Know

Yes

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth

defects, or any other reproductive harm.

Canada

DSL Status All components are on the Canadian DSL list.

OTHER INFORMATION 16

Manufacturer Disclaimer

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the

corresponding unlabeled compound.

Approved On 07/22/11 Version Number