



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

Number:  
Issue Date

CLM-1585  
01/18/11

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## MATERIAL SAFETY DATA SHEET

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### 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description DIETHYL ACETAMIDOMALONATE (2-13C, 99%)

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

E-mail [cilsales@isotope.com](mailto:cilsales@isotope.com)  
Web Site [www.isotope.com](http://www.isotope.com)

#### Phone Numbers

Emergency Contact Chemtrec  
Emergency Phone 1-800-424-9300 (24 hours)  
  
Customer Service 1-800-322-1174 (8:30-5:30 EST)  
Phone  
Transportation 1-202-483-7616 (24 hours)

### 2 HAZARDS IDENTIFICATION

#### OSHA Hazards

No known OSHA hazards

#### GHS Label Information

Signal Word Warning

#### Hazards Identification

Exclamation mark

#### Hazard Statement(s)

Causes skin irritation.  
Causes eye irritation.  
May cause respiratory irritation.

#### Precautionary Statement(s)

Dispose of contents/container to an approved waste disposal plant.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### HMIS Ratings

Physical 0  
Flammability 0  
Health 0



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### NFPA Codes

Fire	0
Health	0
Reactivity	0

### Potential Health Effects

Eyes	Causes 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.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Composition / Information on Ingredients

Synonyms	Acetamidomalonic acid diethyl ester.
Chemical Formula	CH <sub>3</sub> CONH*CH(COOCH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub>
Molecular Weight	218.21
CAS No.	68882-34-8
EC No.	213-952-9

### 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 off 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.
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Fire Fighting Equipment      Wear self contained breathing apparatus for fire fighting if necessary.

### 6 ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures

Personal Precautions      Avoid dust formation.

Environmental Precautions      Do not empty into drains.

Methods and materials for containment and cleanup      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.

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

#### Personal Protection

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 Practices      Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form	Powder
Color	White
pH	No data available
Melting Point	95 - 98 °C (203 - 208 °F)
Boiling Point	185 °C (365 °F) at 27 hPa (20 mmHg)
Flashpoint	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Solubility in Water	No data available
Auto Ignition Temperature	No data available

### 10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions.
Hazardous decomposition products	Formed under fire conditions: carbon oxides, nitrogen oxides
Materials to avoid	acids, Bases, Oxidizing agents, Reducing agents

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Serious Damage/Eye Irritation  
Eyes - rabbit - Mild eye irritation - 24 h

Respiratory or Skin Sensitization  
Not available

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



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	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.

### Signs and Symptoms of Exposure

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

## 12 ECOLOGICAL INFORMATION

### Toxicity

Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not available
Other Adverse Effects	Not available

## 13 DISPOSAL CONSIDERATIONS

### Disposal Considerations

Product Disposal	Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
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## 14 TRANSPORT INFORMATION

### Transportation Information-DOT/IATA/IMDG

Special Shipping Notes	Not dangerous goods.
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### 15 REGULATORY INFORMATION

#### Regulatory Information

No known OSHA hazards.

#### SARA

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

Sara 313 Component No chemicals in this material are subject to the reporting requirements.

#### STATE REGULATIONS

Massachusetts Right to Know No

Pennsylvania Right to Know Yes

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 Listed on the Canadian NDSL list.

#### EU

Hazard Irritant

#### Safety Statements

For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261).  
Wear suitable protective clothing.

#### Risk Statements

Irritating to eyes, respiratory system and skin.

### 16 OTHER INFORMATION

Additional MSDS Information 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.



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