

#### 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 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

**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



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 CH3CONH\*CH(COOCH2CH3)2

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

5

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

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.

#### **ACCIDENTAL RELEASE MEASURES**

Accidental Release Measures

Personal

Avoid dust formation.

Precautions

Environmental

Do not empty into drains.

**Precautions** 

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.

#### **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.

When appropriate, use NIOSH/CEN approved respirator. Respiratory

**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.



#### 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 No data available

Limit

Upper Explosion

Limit

No data available

Solubility in Water No data available
Auto Ignition No data available

Temperature

#### 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** 

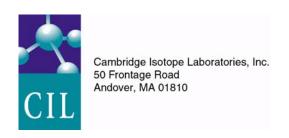
Serious Eyes - rabbit - Mild eye irritation - 24 h

Damage/Eye Irritation

Respiratory or Skin Not available

Sensitization

IARC No component of the 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.

#### Signs and Symptoms of Exposure

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

#### 12 ECOLOGICAL INFORMATION

#### **Toxicity**

Persistance 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.

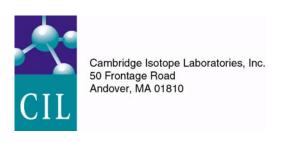
#### 14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

Notes

Not dangerous goods.



#### 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 Listed on the Canadian NDSL list.

EU

Hazard Irritant

Safety Statements

For waste disposal purposes, this product is not know 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.



Approved On 01/18/11 Version Number 1