



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 1 of 7

## MATERIAL SAFETY DATA SHEET

---

### 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description CIS-1,2,3,6-TETRAHYDROPHTHALIC ANHYDRIDE (RING-3,3,4,5,6,6- D6, 98%)

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

Skin sensitizer, Irritant

#### GHS Classification

Acute toxicity, Oral (Category 3)  
Acute toxicity, Dermal (Category 3)  
Specific Target Organ Toxicity - Single exposure (Category 3)  
Skin sensitization (Category 1)

#### GHS Label Information

Signal Word Warning

#### Hazards Identification

Exclamation mark

#### Hazard Statement(s)

Causes skin and eye irritation.  
May cause respiratory irritation.

#### Precautionary Statement(s)

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



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 2 of 7

## MATERIAL SAFETY DATA SHEET

---

### HMIS Ratings

Physical	0
Flammability	1
Health	2

### NFPA Codes

Fire	1
Health	2
Reactivity	0

### Potential Health Effects

Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through the skin. Causes skin irritation.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Composition / Information on Ingredients

Chemical Formula	C8D6H2O3
Molecular Weight	158.1
CAS No.	935-79-5 (unlabeled)
EC No.	213-308-7
Index No.	607-099-00-5

## 4 FIRST AID MEASURES

### First Aid Measures

Eyes	Flush eye with water for 15 minutes. Get medical attention.
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.



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 3 of 7

## MATERIAL 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.

### 6 ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental Precautions Do not empty into drains.

Methods and materials for containment and cleanup Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7 HANDLING AND STORAGE

#### Precautions for Safe Handling

Handling Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Respiratory When appropriate, use NIOSH/CEN approved respirator.



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 4 of 7

## MATERIAL SAFETY DATA SHEET

---

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.

### 9    PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form	Flakes
Color	White
pH	No data available
Melting Point	97 - 103 °C (207 - 217 °F)
Boiling Point	No data available
Flashpoint	156 °C (313 °F) - closed cup
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
Materials to avoid	Strong oxidizing agents, Strong bases

### 11    TOXICOLOGICAL INFORMATION

Acute Toxicity	
Serious	No data available
Damage/Eye Irritation	



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 5 of 7

## MATERIAL SAFETY DATA SHEET

---

Skin Corrosion/Irritation	No data available
Inhalation	No data available
Respiratory or Skin Sensitization	May cause allergic skin reaction.
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.

### 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.
------------------	--



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 6 of 7

## MATERIAL SAFETY DATA SHEET

---

### 14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

UN Number	2698
Prop. Ship. Name	Tetrahydrophthalic anhydrides
Hazard Class	8
Packing Group	III
Marine Pollutant	No
Poison Inhalation Hazard	No

### 15 REGULATORY INFORMATION

Regulatory Information

Skin sensitizer, Irritant

SARA

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

SARA 311/312 Hazards

Acute (Y/N)                Y

STATE REGULATIONS

Massachusetts            No  
Right to Know  
New Jersey Right        Yes  
to Know

California                 This product does not contain any chemicals known to State of California to cause cancer, birth  
Proposition 65            defects, or any other reproductive harm.

Canada

DSL Status                Listed on the Canadian NDSL list.

EU

Hazard                     Irritant

Safety Statements

Do not breathe dust.



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

Number:  
Issue Date

DLM-2053  
09/21/11

Page 7 of 7

## MATERIAL SAFETY DATA SHEET

---

This material and its container must be disposed of in a safe way.  
Wear suitable protective clothing and gloves.  
Avoid release to the environment.

### 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 09/21/11  
Version Number 2