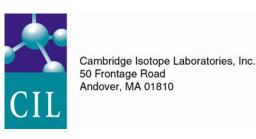
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# **MATERIAL SAFETY DATA SHEET**

### CHEMICAL PRODUCT AND COMPANY INFORMATION

DI-N-PROPYL ETHER (D14, 98%) **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**

Flammable Liquid

### **GHS Label Information**

Signal Word Danger

### Hazards Identification

Flame

**Exclamation mark** 

### Hazard Statement(s)

Highly flammable liquid and vapour.

May cause drowsiness or dizziness.

### Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces- No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

### **HMIS Ratings**

Physical 0 Flammability 3 Health 0



**MATERIAL SAFETY DATA SHEET** 

NFPA Codes

Fire 3 Health 0 Reactivity 0

#### Potential Health Effects

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

Inhalation May be harmful if inhaled. Vapours may cause drowsiness and dizziness. Skin May be harmful if absorbed through skin. May cause skin irritation.

#### **COMPOSITION / INFORMATION ON INGREDIENTS** 3

Composition / Information on Ingredients

Chemical Formula (CD3CD2CD2)2O

Molecular Weight 116.26 CAS No. 203633-20-9 EC No. 203-869-6

#### **FIRST AID MEASURES**

#### First Aid Measures

Eyes Flush eyes with water as a precaution.

Ingestion Do NOT induce vomiting. 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.

General Hazard Flammable in presence of a source of ignition when the temperature is above the flash point.

Keep away from heat/sparks/open flame/hot surface. No smoking.

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# **MATERIAL SAFETY DATA SHEET**

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

Fire Fighting Procedures

Use water spray to cool unopened containers.

#### 6 ACCIDENTAL RELEASE MEASURES

### Accidental Release Measures

Personal Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate Precautions ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours

accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup

Contain spillage, then collect with non-combustible absorbent material. Disposal should be in

accordance with applicable Federal, State and local regulations.

### 7 HANDLING AND STORAGE

### Precautions for Safe Handling

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof

equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build

up of electrostatic charge.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

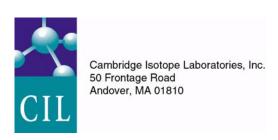
Personal Protecton

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.



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# **MATERIAL SAFETY DATA SHEET**

**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 9

Physical and Chemical Properties (Unlabeled Compound)

Form Clear, Liquid

Color Colourless

рΗ No data available Melting Point -123 °C (-189 °F) 88 - 90 °C (190 - 194 °F) **Boiling Point** 

Flashpoint -28 °C (-18 °F) - closed cup

No data available Lower Explosion

Limit

**Upper Explosion** No data available

Limit

80 hPa (60 mmHg) at 25 °C (77 °F). 73 hPa (55 mmHg) at 20 °C (68 °F) Vapor Pressure

0.736 g/mL at 25 °C (77 °F) Density

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.

Possibility of Hazardous Reactions

Vapors may form explosive mixture with air.

Conditions to Avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

Formed under fire conditions: Carbon oxides Hazardous decomposition

products

Materials to avoid Oxidizing agents, Strong acids



# **MATERIAL SAFETY DATA SHEET**

#### 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

LC50 Inhilation

15 h - 163,000 mg/m3

Mouse

Serious

No data available

Damage/Eye Irritation

Skin

No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell

Not available

Mutagenicity

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.

Reproductive

**Toxicity** 

Not available

### Signs and Symptoms of Exposure

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

Other Information

RTECS UJ5125000

#### 12 ECOLOGICAL INFORMATION

**Toxicity** 

Persistance and

Not available

Degradability

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# **MATERIAL SAFETY DATA SHEET**

Bioaccumulative

Not available

Potential

Not available

PBT and vPvB Assessment

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

**UN Number** 2384

Prop. Ship. Name Di-n-propyl ether

**Hazard Class** Packing Group Ш Marine Pollutant No Poison Inhalation No

Hazard

#### 15 **REGULATORY INFORMATION**

Regulatory Information

Flammable Liquid

SARA

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

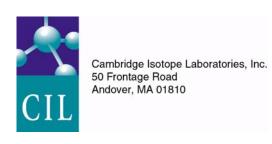
Component

SARA 311/312 Hazards

Fire (Y/N) Υ

STATE REGULATIONS

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# **MATERIAL SAFETY DATA SHEET**

Pennsylvania Right

Yes

to Know

New Jersey Right

Yes

to Know

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

Proposition 65 defects, or any other reproductive harm.

ΕU

Hazard Flammable

Safety Statements

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not empty into drains.

Take precautionary measures against static discharges.

#### Risk Statements

Highly flammable.

May form explosive peroxides.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

#### 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

03/14/11

Version Number