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**MATERIAL SAFETY DATA SHEET** 

# CHEMICAL PRODUCT AND COMPANY INFORMATION

DYSPROSIUM-164 OXIDE (164DY) **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 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

Chemical Formula \*Dy2O3 Molecular Weight 375.9

CAS No. 1308-87-8 (unlabeled)

EC No. 215-164-0

# 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.

# 6 ACCIDENTAL RELEASE MEASURES

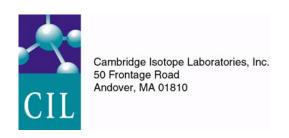
Accidental Release Measures

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

Precautions

Environmental Do not empty into drains.

Precautions



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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 Protecton

Work Hygienic

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

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

the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Practices and at the end of workday.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Powder

Color Light yellow

pH No data availableMelting Point No data availableBoiling Point No data available

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Flashpoint Lower Explosion No data available No data available

Limit

Upper Explosion

No data available

Limit Solubility in Water

No data available No data available

Auto Ignition Temperature

### 10 STABILITY AND REACTIVITY

Stability and Reactivity

Stable if stored under recommended conditions. **Chemical Stability** 

Hazardous

Formed under fire conditions: Metal oxides

decomposition products

Strong acids, Strong oxidizing agents, Carbon dioxide (CO2) Materials to avoid

#### **TOXICOLOGICAL INFORMATION** 11

**Acute Toxicity** 

LD50 Oral Rat > 5,000 mg/kg 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 this product present at levels greater than or equal to 0.1% is identifiable as

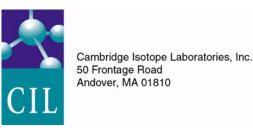
probable, possible, or confirmed human carcinogen by IARC.

**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

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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

Not available

**Toxicity** 

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

#### **ECOLOGICAL INFORMATION** 12

# **Toxicity**

Persistance and Degradability

Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB

Assessment

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.

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### TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

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

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

Component

## STATE REGULATIONS

Massachusetts No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

to Know

Yes

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

Listed on the Canadian NDSL list. **DSL Status** 

#### 16 OTHER INFORMATION

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 06/21/11 Version Number