

#### 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description ERBIUM-170 OXIDE (170ER2)

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

Irritant

**GHS Classification** 

Eye irritation (Category 2)

**GHS Label Information** 

Signal Word Warning

Hazards Identification

**Exclamation mark** 

Hazard Statement(s)

Causes eye irritation.

Precautionary Statement(s)

Wash skin thoroughly after handling.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

If eye irritation persists: Get medical advice/attention.

**HMIS Ratings** 

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# **MATERIAL SAFETY DATA SHEET**

Physical 0 Flammability 0 Health 2

NFPA Codes

0 Fire 2 Health 0 Reactivity

#### 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.

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

Composition / Information on Ingredients

Er2O3 Chemical Formula Molecular Weight 388

CAS No. 12061-16-4 (unlabeled)

EC No. 235-045-7

## **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.

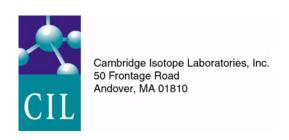
Skin Wash with soap and plenty of water. Consult a physician.

Additional Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

Information dangerous area.

#### FIRE FIGHTING MEASURE 5

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 Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate

Precautions 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 contact with skin and eyes. Avoid formation of dust and aerosols. 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

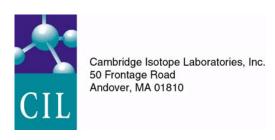
Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

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 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

pH No data available
Melting Point No data available
Boiling Point No data available
Flashpoint Not applicable
Lower Explosion No data available

Limit

Upper Explosion

Limit

Solubility in Water Auto Ignition

ater No data available No data available

No data available

Temperature

#### 10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Conditions to Avoid Avoid air and moisture

Hazardous decomposition products

Formed under fire conditions: Erbium oxides

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

## 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

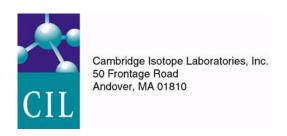
LD50 Oral Rat > 5,000 mg/kg

Serious Eyes - rabbit - Mild eye irritation

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation



Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell Mutagenicity Not available

Mulageriicit

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.

Reproductive

Toxicity

Not available

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

RTECS KD9250000

#### 12 ECOLOGICAL INFORMATION

#### **Toxicity**

Persistance and

Not available

Degradability

Bioaccumulative

Not available

Potential

Mobility in Soil Not available

PBT and vPvB

Not available

Assessment



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

Not dangerous goods.

Notes

#### **REGULATORY INFORMATION** 15

Regulatory Information

Irritant

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

SARA 311/312 Hazards

Acute (Y/N) Υ

STATE REGULATIONS

Massachusetts No

Right to Know Pennsylvania Right

Yes

to Know

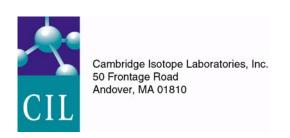
New Jersey Right

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 All components are on the Canadian DSL list.

ΕU

Hazard Irritant

### Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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

05/10/11

Version Number

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