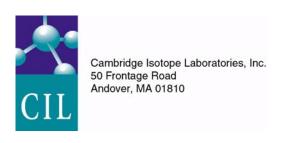
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## **MATERIAL SAFETY DATA SHEET**

### CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Description** TIN-119 METAL (119Sn)

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)

1-202-483-7616 (24 hours) Transportation

#### 2 **HAZARDS IDENTIFICATION**

### **OSHA Hazards**

Irritant

### **GHS Classification**

Eye irritation (Category 2)

Specific Target Organ Toxicity - Single exposure (Category 3)

### **GHS Label Information**

Signal Word Warning

### Hazards Identification

**Exclamation mark** 

### Hazard Statement(s)

Causes serious eye irritation.

May cause respiratory irritation.

### Precautionary Statement(s)

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

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.



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

## **MATERIAL SAFETY DATA SHEET**

Wear protective gloves/protective clothing/eye protection/face protection.

IF INHALED: Remove victim to fresh air. Keep at rest in a comfortable position.

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

Call a POISON CENTER or doctor/physician if you feel unwell.

If eye irritation persists: Get medical advice/attention.

### **HMIS Ratings**

Physical 0 Flammability 0 Health 2

### NFPA Codes

0 Fire Health 2 Reactivity 0

### Potential Health Effects

Eves 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 skin. Causes skin irritation.

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

Composition / Information on Ingredients

Chemical Formula Sn Molecular Weight 119.00

CAS No. 7440-31-5 (unlabeled)

EC No. 231-141-8

### FIRST AID MEASURES

### First Aid Measures

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

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.

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Cambridge Isotope Laboratories, Inc.

## **MATERIAL SAFETY DATA SHEET**

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

Precautions ventilation. Evacuate personnel to safe areas.

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.

#### HANDLING AND STORAGE 7

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.

#### **EXPOSURE CONTROL / PERSONAL PROTECTION** 8

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) CHEMICAL NAME TIN (METAL)

OSHA PEL **ACGIH TLV TWA** 2 mg/M<sup>3</sup>

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## **MATERIAL SAFETY DATA SHEET**

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)

Powder Form

рΗ No data available Melting Point 231.9 °C (449.4 °F) - lit **Boiling Point** 2,270 °C (4,118 °F) - lit

Flashpoint Not applicable

**Evaporation Rate** 

> 99.99 % (V) Lower Explosion

Limit

Solubility in Water No data available Auto Ignition No data available

Temperature

#### STABILITY AND REACTIVITY 10

Stability and Reactivity

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

Conditions to Avoid Not available

Hazardous decomposition products

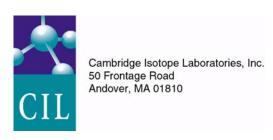
Formed under fire conditions: Tin/tin oxides

Materials to avoid

Strong oxidizigna gents, Sulphur compounds, Strong bases, Halogens

Additional Do not store near acids.

Information



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## **MATERIAL SAFETY DATA SHEET**

#### TOXICOLOGICAL INFORMATION 11

**Acute Toxicity** 

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 Carcinogenicity

Carcinogenicity - rat - Implant

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or

application.

CArcinogenicity - mouse - Implant

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or

application.

**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

Specific Target Organ Toxicity

Single Exposure Inhalation - May cause respiratory irritation

Repeated Exposure No data available

Signs and Symptoms of Exposure

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



## **MATERIAL SAFETY DATA SHEET**

Other Information

RTECS XP7320000

### 12 ECOLOGICAL INFORMATION

**Toxicity** 

Persistance and Degradability

Not available

Bioaccumulative

Not available

Potential

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.

### 14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

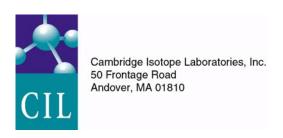
Not dangerous goods.

Notes

### 15 REGULATORY INFORMATION

Regulatory Information

Irritant



## **MATERIAL SAFETY DATA SHEET**

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) Y

STATE REGULATIONS

Massachusetts

Yes

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 All components are on the Canadian DSL list.

EU

Hazard Flammable, Irritant.

Safety Statements

Keep away from sources of ignition - No smoking.

For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) resource Conservation and Recovery Act (RCRA, 40CFR261).

Take precautionary measures against static discharges.

Wear suitable protective clothing, gloves and eye/face protection.

Risk Statements

Highly flammable.

Irritating to eyes and respiratory system.

Danger of very serious irreversible effects.

### 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.





# **MATERIAL SAFETY DATA SHEET**

Approved On 04/15/11 Version Number 1