



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

Number:
Issue Date

SBLM-781
06/16/11

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MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description ANTIMONY-123 METAL (123Sb)

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 1-800-322-1174 (8:30-5:30 EST)
Phone
Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

Target Organ Effect

Target Organs

Heart, Respiratory system

GHS Classification

Hazardous to the aquatic environment, Chronic hazard (Category 2)

GHS Label Information

Signal Word Warning

Hazards Identification

Exclamation mark
Environment

Hazard Statement(s)

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Dispose of contents/container to an approved waste disposal plant.



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HMIS Ratings

Chronic Health	*
Physical	0
Flammability	0
Health	2

NFPA Codes

Fire	0
Health	2
Reactivity	0

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.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Chemical Formula	123Sb
Molecular Weight	122.9
CAS No.	14119-16-5
EC No.	231-146-5

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.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
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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 Prevent further leakage or spillage if safe to do so. Do not let product enter 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 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

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

CHEMICAL NAME	TWA	OSHA PEL	ACGIH TLV
ANTIMONY		0.5 mg/M ³	

Personal Protection

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.



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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	Solid
pH	No data available
Melting Point	630.74 °C (1,167.33 °F)
Boiling Point	No data available
Flashpoint	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Density	6.690 g/cm ³
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: Antimony oxide
Materials to avoid	Oxidizing agents, Acids

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral Rat	7,000 mg/kg
Serious Damage/Eye Irritation	No data available

Skin Corrosion/Irritation	No data available
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Inhalation	No data available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Carcinogenicity	Carcinogenicity - rat - Inhalation Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors.
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

Nausea
Vomiting
Headache
Dizziness

Other Information

RTECS CC4025000

12 ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish LC50	Cyprinodon variegatus (sheepshead minnow) - 6.2 - 8.3 mg/l - 96 h
Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not available



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Other Adverse Effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 2871
Prop. Ship. Name Antimony powder
Hazard Class 6.1
Packing Group III
Marine Pollutant No
Poison Inhalation Hazard No

15 REGULATORY INFORMATION

Regulatory Information

Target Organ Effect

SARA

Sara 302 Component No chemicals in this material are subject to the reporting requirement.
Sara 313 Component Yes

SARA 311/312 Hazards

Chronic (Y/N) Y

STATE REGULATIONS

Massachusetts Right to Know Yes
Pennsylvania Right Yes



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to Know

New Jersey Right Yes

to Know

California
Proposition 65

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

Canada

DSL Status

All components are on the Canadian DSL list.

EU

Hazard

Dangerous for the environment

Safety Statements

This material and its container must be disposed of as hazardous waste.

Risk Statements

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
Version Number

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