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MATERIAL SAFETY DATA SHEET

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

Phone

1-800-322-1174 (8:30-5:30 EST)

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

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.

COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

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

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.

FIRE FIGHTING MEASURE 5

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.

ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

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

Precautions ventilation.

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

Precautions

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.

EXPOSURE CONTROL / PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

OSHA PEL ACGIH TLV CHEMICAL NAME

ANTIMONY TWA 0.5 mg/M³

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.



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

Practices and at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Solid

рΗ No data available Melting Point 630.74 °C (1,167.33 °F) **Boiling Point** No data available Flashpoint No data available Lower Explosion No data available

Limit

Upper Explosion

No data available

Limit

6.690 g/cm3 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.

Hazardous Formed under fire conditions: Antimony oxide decomposition

products

Materials to avoid Oxidizing agents, Acids

11 **TOXICOLOGICAL INFORMATION**

Acute Toxicity

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

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

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No data available Inhalation

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

ECOLOGICAL INFORMATION 12

Toxicity

Toxicity to Fish

LC50

Cyprinodon variegatus (sheepshead minnow) - 6.2 - 8.3 mg/l - 96 h

Persistance and

Degradability

Not available

Bioaccumulative Potential

Not available

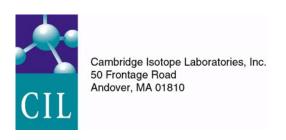
Not available

PBT and vPvB

Mobility in Soil

Not available

Assessment



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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 No

Hazard

15 REGULATORY INFORMATION

Regulatory Information

Target Organ Effect

SARA

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

Component

Sara 313 Yes

Component

SARA 311/312 Hazards

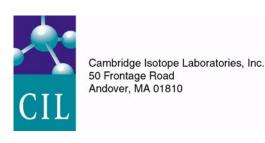
Chronic (Y/N) Y

STATE REGULATIONS

Massachusetts Yes

Right to Know

Pennsylvania Right Yes



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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

DSL Status All components are on the Canadian DSL list.

ΕU

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 06/16/11

Version Number 1