

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: Indium-113 Metal

Product Code: IN-M-01-ISO.113I

CAS Number: 14885-78-0

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
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SECTION 2. HAZARDS IDENTIFICATION

OSHA Hazards

Target Organ Effect, Irritant

Target Organs

Teeth, Gums

GHS Classification

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Acute toxicity, Inhalation (Category 4)

Specific Target Organ Toxicity - Single exposure (Category 3)

GHS Label Information

Signal Word Warning

Hazards Identification



Hazard Statement(s)

Harmful if swallowed or in contact with skin.

Causes skin irritation.

Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
Precautionary Statement(s)
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse with water for several minutes. Remove contact lenses.
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.
HMIS Ratings
Chronic Health *
Physical 0
Flammability 0
Health 2
NFPA Codes
Fire 0
Health 2
Reactivity 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition / Information on Ingredients
Chemical Formula In
Molecular Weight 112.90
CAS No. 14885-78-0
EC No. 231-180-0

SECTION 4. 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.

SECTION 5. FIREFIGHTING MEASURES

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

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

Personal Precautions

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.

SECTION 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 Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Work Hygienic Practices Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Beads

Color Silver, White

Odor Odourless

pH No data available

Melting Point 155 - 158 °C (311 - 316 °F) - lit

Boiling Point 2,000 °C (3,632 °F) at 1,013 hPa (760 mmHg)

Flashpoint Not applicable

Lower Explosion Limit No data available

Upper Explosion Limit No data available

Vapor Pressure < 0.01 hPa (< 0.01 mmHg) at 25 °C (77 °F)

Density 7.3 g/cm³ at 25 °C (77 °F)

Solubility in Water Insoluble

Auto Ignition Temperature No data available

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Conditions to Avoid Not available

Hazardous decomposition products Formed under fire conditions: Indium/indium oxides

Materials to avoid Strong oxidizing agents, Sulphur compounds, Strong acids, Halogens, Acetonitrile

Materials to avoid: Tellurium, arsenic powder, phosphorous

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Serious Damage/Eye Irritation No data available

Skin Corrosion/Irritation No data available

Inhalation No data available

Respiratory or Skin Sensitization Not available

Germ Cell Mutagenicity Not available

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 the product present at levels greater than or equal to 0.1 % is identifiable as probable, possible, or confirmed human carcinogen by IARC.

NTP No component of this product present at levels greater than or equal to 0.1 % is identified 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.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available

PBT and vPvB Assessment Not available

Other Adverse Effects Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

SECTION 14. TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

UN Number 3089

Prop. Ship. Name Metal powders, flammable, n.o.s., (Indium-113)
Packing Group II
Marine Pollutant No
Poison Inhalation Hazard No

SECTION 15. REGULATORY INFORMATION

Regulatory Information

Target Organ Effect, Irritant

SARA

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

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

SARA 311/312 Hazards

Acute (Y/N) Y

Chronic (Y/N) Y

STATE REGULATIONS

Massachusetts Right to Know Yes

Pennsylvania Right to Know Yes

New Jersey Right to Know Yes

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 Harmful

Safety Statements

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).

Wear suitable protective clothing.

Risk Statements

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.