INDIUM
SAFETY DATA SHEET

DATE OF LAST REVISION: 06/29/15

Section 1: Identification

Product Name: Indium
Company: Angstrom Sciences, Inc.
40 South Linden Street
Duquesne, PA 15110
For more information call: 412-469-8466
(Monday - Friday 9:00-5:00 EST)

Section 2: HAZARD IDENTIFICATION

Signal Word: Warning

Hazard Statements: H228: Flammable solid

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking
P280: Wear protective gloves/protective clothing/eye protection/face protection
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/light/equipment.
P370 + P378: In case of fire: Use CO₂ powder or water spray for extinction.

HMIS Health Ratings (0-4):

<table>
<thead>
<tr>
<th></th>
<th>Powder</th>
<th>Bulk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Flammability:</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Physical</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
Section 3: Composition/Information on Ingredients
   Chemical characterization: Metal
   Additional Names: None
   Percentage: 100 wt%
   CAS# Description: 7440-74-6
   EC number: 231-180-0

Section 4: FIRST AID MEASURES
   General Treatment: Seek medical attention if symptoms persist.
   Special Treatment: None
   Important Symptoms: None
   Eye Contact: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
   Skin Contact: Wash affected area with mild soap and water. Remove any contaminated clothing.
   Inhalation: Remove to fresh air. If required, give artificial respiration. Seek medical advice.
   Ingestion: Seek medical attention.

Section 5: FIRE FIGHTING MEASURES
   Flammability: Flammable as powder only
   Special Fire Fighting Procedure: Use full-face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
   Extinguishing Media: Do not use water for metal fires - use CO₂, sand, extinguishing powder.

Section 6: ACCIDENTAL RELEASE MEASURES
If material is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.
   Environmental Precautions: Isolate runoff to prevent environmental pollution.

Section 7: HANDLING AND STORAGE
   Handling Precautions for safe handling: Wash thoroughly after handling.
   Conditions for safe storage, including any incompatibilities Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in Section 10.
   Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
   Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.
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Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits: 0.1 mg/m³ as In, long-term value
Threshold Limit Value: 0.1 mg/m³ as In, long-term value
Special Equipment: None
Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protective Gloves: Nitrile rubber, NBR 0.11 mm thick
Eye Protection: Safety glasses or goggles
Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Form: Powder, Granules, Pellets, Sputtering target, Custom parts
Color: Silvery-white
Odor: Odorless
Water Solubility: Bulk: Insoluble, Powder: N/A
Boiling Point: 2072°C
Melting Point: 156.6°C
Flash Point: N/A
Autoignition Temperature: N/A
Density: 7.31 g/cc
Molecular Weight: 114.82 g/mol

Section 10: STABILITY AND REACTIVITY

Reactivity: Acids, Oxidizing agents
Chemical Stability: Stable under recommended storage conditions
Incompatible Conditions: None
Hazardous Decomposition Products: Indium Oxide

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:
Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation
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Chronic:  N/A

Signs & Symptoms:  N/A
Aggravated Medical Conditions:  N/A
Median Lethal Dose:  N/A
Carcinogen:  N/A

Section 12:  ECOLOGICAL INFORMATION
Aquatic Toxicity:  Low
Persistence Bioaccumulation Toxicity:  No
Very Persistent, Very Bioaccumulative:  No
Notes:  N/A

Section 13:  DISPOSAL CONSIDERATIONS
Dispose of in accordance with local, state, national, and international regulations

Section 14:  TRANSPORT INFORMATION
Hazardous:  Hazardous as powder only

Hazard Class:  4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
Packing Group:  III
UN Number:  UN3089
Proper Shipping Name:  Metal powders, flammable, n.o.s. [Indium powder]

Section 15:  REGULATORY INFORMATION
Sec 302 Extremely Hazardous:  No
Sec 304 Reportable Quantities:  N/A
Sec 313 Toxic Chemicals:  No
Section 16: OTHER INFORMATION
This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.