



Super Conductor Materials, Inc.

391 Spook Rock Industrial Park, Suffern, NY 10901 · 845.368.0240 · Fax 845.368.0250 · www.scm-inc.com

Chemtrec: (800) 424-9300
Poison Center: (800) 562-8236
Revision Date: January 8th, 2019

SAFETY DATA SHEET

Identity: Indium

Formula: In

SECTION I - GENERAL INFORMATION

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 114.818

CAS #	OSHA PEL	ACGIH TLV	%
7440-74-6	0.1mg/m ³	0.1mg/m ³	0.0-100%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 2072.0°C

Melting Point: 156.6°C

Evaporation rate: N/A

Solubility in water: Insoluble

Specific Gravity (H₂O=1): 7.31g/cm³

Vapor Pressure (vs. air or mmHg): N/A

Vapor Density (vs. air=1): N/A

Flash Point: N/A

Appearance and odor: Silver-white metals, soft, malleable and ductile, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: N/A

Explosive Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of fire

Special Fire Fighting Procedures:

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Organic fumes and toxic fumes may form at elevated temperatures

Unusual Fire and Explosion Hazards:

- Indium metal has a violent reaction with mercury (II) bromide at 350C.
- May have an explosive reaction with dinitrogen tetraoxide + acetonitrile.
- May react with halogens, sulfur, selenium, tellurium, arsenic, phosphorus on heating.
- May slowly oxidize in moist air.
- May dissolve in mercury.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): N/A



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Incompatibility: Strong oxidizing agents, Mercury (II) bromide, dinitrogen tetraoxide, acetonitrile, halogens, sulfur, selenium, tellurium, arsenic, mercury and phosphorus.

Hazardous Decomposition or Byproducts: Indium Oxide

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other? No

Sign and Symptoms of overexposure:

Inhalation: May cause a red, dry throat, burning sensation, wheezing, laryngitis, coughing, sneezing and shortness of breath.

Ingestion: May cause nausea, vomiting and stomach discomfort.

Skin: May cause redness, itching, inflammation and burning.

Eye: May cause redness, itching, inflammation, burning and watering.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Toxic by inhalation. May cause damage to the respiratory system.

Chronic: May cause pneumonitis.

Ingestion:

Acute: May cause irritation to the gastrointestinal tract.

Chronic: No chronic health effects recorded.

Skin:

Acute: Highly toxic when administered subcutaneously. Severe irritant.

Chronic: Severe irritant.

Eye:

Acute: Severe irritant.

Chronic: May cause irritation.

Target Organs: May affect the liver, heart, kidneys and blood.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Pre-existing lung, skin and gastrointestinal disorders.

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

If molten, allow to cool and solidify. Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill



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using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Do not sweep. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

Precautions: Indium metal may be moisture sensitive. Store in a cool, dry area.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious rubber gloves, safety glasses, clothes to prevent contact.

Ventilation:

Local Exhaust: To control any air contaminants

Mechanical (General): Recommended.

Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established
