

Super Conductor Materials, Inc.

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

SAFETY DATA SHEET

Identity: Indium Antimonide

Formula: InSb

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: 236.57

CAS #	OSHA PEL	ACGIH TLV	%
1312-41-0	.5mg (Sb)/m ³	0.5mg(Sb)/m ³	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/A

Specific Gravity (water=1) 5.75 gm/cc

Melting Point: 535.00°C

Flash Point: N/A

Evaporation Rate: N/A

Vapor Pressure: (mm hg): N/A

Solubility in water: Insoluble

Appearance and odor: Crystalline pieces, no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Non-Flammable

Explosive Limits: LEL: N/A

UEL: N/A

Extinguishing Media:

Use suitable extinguishing agent for surrounding materials 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. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual fire and explosive hazards: None recorded



SECTION V - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: None
Incompatibility: None recorded

Hazardous Decomposition or Products: None recorded
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

To the best of our knowledge the chemical, physical and toxicological properties of indium antimonide have not been investigated and recorded.

Most antimony compounds are poisons by ingestion, inhalation, and intraperitoneal routes. Locally antimony compounds irritate the skin and mucous membranes. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

Signs and Symptoms of Overexposure:

Inhalation: May cause a red, dry, throat, coughing, dizziness, headache, nausea, vomiting, shortness of breath, diarrhea, cramps, insomnia and anorexia.

Ingestion: May cause headache, nausea, vomiting, diarrhea and cramps.

Skin: May cause red, itching and burning.

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: DANGER-POISON! Inhalation of dust or powder may cause irritation to the nose, throat, mouth and nasal septal ulceration. May cause damage to the respiratory system.

Chronic: May cause pneumonitis, liver and kidney abnormalities.

Ingestion:

Acute: DANGER POISON! May cause irritation to the gastrointestinal tract, lining of the stomach and intestines.

Chronic: No chronic health effects known

Skin:

Acute: May cause irritation.

Chronic: May cause dermatitis and keratitis.

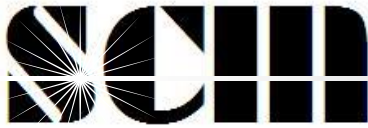
Eye:

Acute: May cause severe irritation

Chronic: May cause conjunctivitis.

Target Organs: May affect the respiratory system, kidneys and nervous system.

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



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Medical Conditions Aggravated by Exposure: Pre-existing respiratory disorder

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:* Do not induce vomiting, seek medical attention immediately.
- Skin:* Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention immediately.
- Eye:* Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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

Wear appropriate respiratory and protective equipment specified in section VIII-Control Measures. Isolate spill area, provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste disposal method:

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

Hazard Label Information:

Keep container tightly closed. Store in cool, well-ventilated area. Wash thoroughly after use.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact, goggles or face shield.

Ventilation:

Local Exhaust: To maintain concentration at or below the TLV
Special: Handle in a controlled, enclosed environment
Mechanical (General): Not 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