



# Super Conductor Materials, Inc.

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

Chemtrec: (800) 424-9300

Poison Center: (800) 562-8236

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## **SAFETY DATA SHEET**

Identity: Gallium Antimony

Formula: GaSb

### 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: 191.47

CAS #	OSHA PEL	ACGIH TLV	%
12064-03-8	NE	NE	0.0-100.0%

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/A

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

Melting Point: 710°C

Specific Gravity: N/A gm/cc

Evaporation Rate: N/A

Flash Point: N/A

Solubility in water: Insoluble

*Appearance and odor:* Crayish 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 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. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

*Unusual Fire and Explosion Hazards:* None recorded

### SECTION V - REACTIVITY DATA

*Stability:* Stable

*Conditions to Avoid (instability):* None

*Incompatibility:* None recorded



*Hazardous Decomposition or Byproducts:* 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 chemicals, physical and toxicological properties of gallium antimonide have been thoroughly investigated and recorded. Most antimony compounds are poisons by ingestion, 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 red dry throat, chemical burns, dizziness, headaches, insomnia and coughing.

*Ingestion:* May cause chemical burns, nausea, vomiting, metallic taste in mouth, general itching, sweating, diarrhea, cramps, behavioral changes such as sleepiness and loss of appetite may be noted.

*Skin:* May cause chemical burns, redness, itching and inflammation.

*Eye:* May cause chemical burns, redness, itching and inflammation and watering.

*Health Hazards (Acute and Chronic):*

*Inhalation:*

Acute: SEVERE IRRITATION AND CORROSIVE. Inhalation of dust or powder may cause irritation to the respiratory system, nose, throat, and mouth.

Chronic: No chronic health effects recorded

*Ingestion:*

Acute: SEVERE IRRITATION AND CORROSIVE. May cause anorexia and nausea, vomiting, diarrhea, and cramps.

Chronic: No chronic health effects recorded

*Skin:*

Acute: SEVERE IRRITATION AND CORROSIVE.

Chronic: May cause dermatitis and depression of bone marrow function.

*Eye:*

Acute: SEVERE IRRITATION AND CORROSIVE.

Chronic: No chronic health effects recorded

*Target Organs:* May effect the respiratory system, CVS, skin and eyes.

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

*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:* 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



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*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:*

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. 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:*

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

### SECTION VIII - CONTROL MEASURES

*Protective Equipment Summary (Hazard Label Information):*

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

*Ventilation:*

Local Exhaust: To maintain concentration at low exposure levels.

Special: Handle in a controlled 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