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

SAFETY DATA SHEET

 Identity: Antimony sulfide
 Formula: Sb₂S₃

 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: 339.68

CAS #	OSHA PEL	ACGIH TLV	%
1345-04-6	0.5 mg/m3	0.5 mg/m3	0.0 -100.0 %

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 1150.00 °C Melting Point: 550.00 °C Evaporation Rate: N/A Solubility in water: Reacts Vapor Pressure (vs. air or mmHg): Density: 4.12 g/cm³ Flash Point: N/A

Appearance and odor: Red-black powder and pieces, no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: UnknownExplosive Limits: LEL: N/AUEL: N/AExtinguishing 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.



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Flammable Properties and Hazards:

-Flammable when exposed to heat or flame.

-When heated to decomposition or on contact with acid or acid fumes, antimony sulfide may emit highly toxic fumes of oxides of sulfur and antimony.

-Reacts with water or stream to produce toxic and flammable vapors.

-Moderately explosive by spontaneous reaction with chlorates, perchlorates, ClO and thallic oxide.

-Spontaneously flammable when exposed to heat or flame.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (instability): None

Incompatibility: Water, moisture, steam, acids, strong oxidizers, chlorates, perchlorates, CIO and thallic oxide.

Hazardous Decomposition or Byproducts: Oxides of sulfur and antimony Hazardous Polymerization: Will not occur Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA							
Route 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 antimony sulfide have not been thoroughly investigated and recorded.

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

Sulfides of the heavy metals are generally insoluble and hence have little toxic action except through the liberation of hydrogen sulfide. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

Signs and Symptoms of Overexposure:

Inhalation: May cause throat dryness, coughing and burning sensation. *Ingestion:* May cause nausea and vomiting. *Skin:* May cause redness, itching, inflammation and burning. *Eye:* May cause redness, itching, inflammation, watering and burning.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Human blood and gastrointestinal system effects by inhalation. May cause irritation to the nose, throat and mucous membranes.

Chronic: Prolonged or repeated exposure may cause pneumoconiosis, coma and pulmonary edema.

Ingestion:

Acute: May cause gastrointestinal irritation. Chronic: No chronic health effects recorded.



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Skin:

Acute: May cause severe irritation to moist skin due to the liberation of hydrogen sulfide. Chronic: No chronic health effects recorded.

Eye:

Acute: May cause severe irritation. Chronic: No chronic health effects recorded.

Target Organs: May affect the eyes, skin, blood, gastrointestinal and respiratory system.Carcinogenicity:NTP? NoIARC Monographs?NoOSHA Regulated?NoMedical Conditions Aggravated by Exposure:Pre-existing respiratory, gastric and skin 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:

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: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Special: Handle in an enclosed, controlled environment

Mechanical (General): Not recommended



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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