



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: Sulfur

Formula: S

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: 32.06

CAS #	OSHA PEL	ACGIH TLV	%
7704-34-9	N/A	N/A	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State: Solid

Boiling Point: 444.6°C

Melting Point: 115.21°C

Evaporation Rate: N/A

Solubility in water: Insoluble

Vapor Pressure (vs. air or mmHg): 1.3

Density: 2.07 g/cm³

Flash Point: N/A

Appearance and odor: Yellow powder and pieces, slight odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Non-flammable

Explosive Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use water or dry chemical

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:

- When heated, sulfur will burn and emit toxic fumes of oxides of sulfur.
- Combustible when exposed to flame or by chemical reaction with oxidizing agents.
- Explosive in the form of dust when exposed to flame.



SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): None

Incompatibility: Oxidizing agents; halogens; carbides; halogenates; halogenites; zinc; uranium; tin; sodium; lithium; nickel; palladium; phosphorus; potassium; indium; calcium; boron; aluminum; (aluminum + niobium pentoxide); ammonia; ammonium nitrate; ammonium perchlorate; BrF₅; BrF₃; (Ca + chlorates); ClO₂; ClO; ClF₃; CrO₃; Cr(OCl)₂; hydrocarbons; IF₅; IO₅; PbO₂; Hg(NO₃)₂; HgO; NO₂; P₂O₃; (KNO₃ + As₂S₃); K₃N; K₂MnO₄; AgNO₃; Ag₂O; NaH; (NaNO₃ + charcoal); (Na + SnI₄); SCl₂; Ti₂O₃; F₂.

Hazardous Decomposition or Byproducts: oxides of Sulfur

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

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

Signs and Symptoms of Overexposure:

Inhalation: May cause a red, dry throat and coughing.

Ingestion: May cause abdominal pain, nausea and vomiting.

Skin: May cause redness and itching.

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause a red, dry throat.

Chronic: No chronic health effects recorded.

Ingestion:

Acute: Poison by ingestion, intravenous and intraperitoneal routes.

Chronic: No chronic health effects recorded.

Skin:

Acute: Prolonged or repeated exposure may cause irritation.

Chronic: Prolonged or repeated exposure may cause irritation.

Eye:

Acute: May cause irritation.

Chronic: May cause irritation.

Target Organs: May affect the eyes.

Carcinogenicity: NTP? N/A

IARC Monographs? N/A

OSHA Regulated? N/A

Medical Conditions Aggravated by Exposure: Pre-existing respiratory problems

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



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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