



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: Strontium oxide

Formula: SrO

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: 103.62

CAS #	OSHA PEL	ACGIH TLV	%
1314-11-0	N/A	N/A	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 3000.00°C
Melting Point: 2430.00°C
Evaporation Rate: N/A
Solubility in water: Soluble

Vapor Pressure (vs. air or mmHg): N/A
Specific Gravity (water =1): 4.700 g/cm³
Flash Point: N/A

Appearance and odor: White- to grey powder and 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: Strontium oxide forms hydroxide and heat on contact with water



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SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): None

Incompatibility: Water

Hazardous Decomposition or Byproducts: Strontium hydroxide

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 strontium oxide have not been thoroughly investigated and recorded.

Strontium compounds have a low order of toxicity. It is chemically and biologically similar to calcium. The oxides and hydroxides are moderately caustic materials. (Sax, Dangerous Properties of Industrial Materials, sixth edition)

Signs and Symptoms of Overexposure:

Inhalation: May cause sneezing, coughing and dry throat.

Ingestion: May cause excessive salivation, vomiting, colic and diarrhea.

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

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause sneezing, coughing, dries throat and shortness of breath

Chronic: May cause pulmonary edema

Ingestion:

Acute: May cause excessive salivation, vomiting, colic and diarrhea

Chronic: No chronic health effects recorded

Skin:

Acute: May cause itching, redness, inflammation and chemical burns

Chronic: May cause dermatitis

Eye:

Acute: May cause itching, redness, inflammation, and watering

Chronic: May cause severe irritation and visual impairment

Target Organs: No target organs for strontium oxide have been recorded

Carcinogenicity: NTP? No

IARC Monographs? No

OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Pre-existing respiratory 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



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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.

Precautions: Strontium oxide reacts with water. Handle and store in an inert gas, such as argon or nitrogen.

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 atmosphere

Mechanical (General): Not recommended

Other: Handle in an inert gas such as argon or nitrogen.

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