



# Super Conductor Materials, Inc.

391 Spook Rock Industrial Park, Suffern, NY 10901 · 845.368.0240 · Fax 845.368.0250 · www.scm-inc.com

Chemtrec: (800) 424-9300

Poison Center: (800) 562-8236

Revision Date: January 8<sup>th</sup>, 2019

## SAFETY DATA SHEET

Identity: Strontium Ruthenate

Formula: SrRuO<sub>3</sub>

### 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

SrRuO<sub>3</sub> Molecular Weight: 236.69

Component	Formula	CAS#	OSHA PEL	ACGIH TLV	%
Strontium Oxide	SrO	1314-11-0	NE	NE	NE
Ruthenium Oxide	RuO <sub>2</sub>	12036-10-1	NE	NE	NE

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Powder/Target

Boiling Point: N/A

Melting Point: N/A

Evaporation Rate: N/A

Solubility in water: Insoluble

Vapor Pressure (vs. air or mmHg):

Density: g/cm<sup>3</sup>

Flash Point: N/A

*Appearance and odor:* Black, target odorless

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

*Method Used:* Unknown

*Explosive Limits:* LEL: N/A

UEL: N/A

*Extinguishing Media:* Product is not flammable. 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



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## SECTION V - REACTIVITY DATA

*Stability:* Stable

*Conditions to Avoid (instability):* None known

*Incompatibility (Materials to avoid):* None known

*Hazardous Decomposition or Byproducts:* None known

*Hazardous Polymerization:* None known

*Conditions to avoid (hazardous polymerization):* None known

## SECTION VI - HEALTH HAZARD DATA

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

### Sign and Symptoms of overexposure:

*Inhalation:* May cause fever, cough, and increase in white blood cell counts. Breathing of dust may aggravate asthma and inflammatory of fibrotic pulmonary disease. This applies to liquids also, due to the drying of solution or slurry creating airborne dust.

*Ingestion:* May cause nausea

*Skin:* May cause irritation and irritate and existing dermatitis.

*Eyes:* May cause irritation, experienced as redness of the conjunctiva. Liquids can also cause irritation due to drying of solution or slurry, creating airborne dust.

### Health Hazards (Acute and Chronic):

#### *Inhalation:*

Acute: May cause fever, cough, and increase in white blood cell counts. May aggravate asthma and inflammation of fibrotic pulmonary disease.

Chronic: No chronic health affects recorded

#### *Ingestion:*

Acute: May cause nausea

Chronic: No chronic health affects recorded

#### *Skin:*

Acute: Powder irritant to the skin and mucus membranes

Chronic: No chronic health affects recorded

#### *Eyes:*

Acute: Irritating effect

Chronic: No chronic health affects recorded

### 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



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### 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.

Mechanical (General): 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