



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 8th, 2019

SAFETY DATA SHEET

Identity: Rhodium oxide

Formula: Rh₂O₃

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: 253.81

CAS #	OSHA PEL	ACGIH TLV	%
12036-35-0	0.1 mg (Rh)/m ³	1 mg (Rh)/m ³	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: 1100°C

Density: 8.20 g/cm³ at 25.0 °C

Evaporation Rate: N/A

Flash Point: N/A

Solubility in water: Slightly

Appearance and odor: Gray-black powder, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Non - flammable

Explosive Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use CO₂, foam, dry chemical, DO NOT USE WATER

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: May emit toxic fumes upon decomposition

SECTION V - REACTIVITY DATA

Stability: Stable under recommended storage conditions

Conditions to Avoid (stability): Strong oxidizing agents

Incompatibility: HCl, H₂SO₄, NH₃, organic solvents



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Hazardous Decomposition or Byproducts: Rhodium/rhodium oxides

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): N/A

SECTION VI - HEALTH HAZARD DATA

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

Health Hazards (Acute and Chronic):

Inhalation: May cause irritation to upper respiratory tract and/or lungs

Ingestion: May cause nausea, vomiting, dizziness and/or diarrhea

Skin: May cause redness, itching and/or burning

Eye: May cause redness, itching, burning and/or watering

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause irritation

Chronic: May cause respiratory irritation and respiratory sensitization

Ingestion:

Acute: No data

Chronic: No data

Skin:

Acute: May cause irritation

Chronic: No data

Eye:

Acute: May cause irritation

Chronic: No data

Target Organs: N/A

Carcinogenicity: NTP? No

IARC Monographs? No

OSHA Regulated? No

Medical Condition Aggravated by exposure: N/A

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 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.



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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
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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
