# 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: Niobium Oxide Formula: Nb2O5

## **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: 265.81

<u>CAS # OSHA PEL ACGIH TLV %</u> 1313-96-8 N/A N/A 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:  $1520.00^{\circ}$ C Specific Gravity:( $H_2O=1$ ): 4.6 gm/cc

Evaporation Rate: N/A Flash Point: N/A

Solubility in water: Insoluble/ Soluble in HF & Alkalies

Appearance and odor: White powder or pieces, no odor

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

Method Used: N/A Explosive Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use class D or other metal extinguishing agent.

*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: Niobium oxide may emit toxic fumes if involved in a fire.



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## SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): None Incompatibility: Strong acids and bases

Hazardous Decomposition or Byproducts: None recorded

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? No Other? No

To the best of our knowledge the chemical, physical and toxicological properties of niobium oxide have not been thoroughly investigated and recorded.

## *Signs and Symptoms of overexposure:*

Inhalation: May cause a red, dry, sore throat.

Ingestion: No acute or chronic health effects recorded.

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

## Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause irritation to the nose and throat

Chronic: May cause kidney damage and fibrogenic effects on the lungs

Ingestion:

Acute: No acute health effects recorded Chronic: No chronic health effects recorded

Skin:

Acute: May cause irritation

Chronic: No chronic health effects recorded

Eyes:

Acute: May cause irritation

Chronic: No chronic health effects recorded

Target Organ: May effect the kidneys and lungs.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Pre-existing respiratory disorders.



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## **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-Control Measures. Isolate spill area, provide ventilation. 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. USE NON-SPARKING TOOLS.

## *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: If user operations generate dust, fume or mist, use ventilation to keep exposure low to airborne contaminants.

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