



# 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: Terbium fluoride oxide

Formula: TbOF

### 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:

Chemical Family:

CAS #	OSHA PEL	ACGIH TLV	%
21031-92-5		2.5mg/m <sup>3</sup> as F	100%

### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Crystalline

Boiling Point: N/D

Vapor Pressure: N/D

Melting Point: N/D

Specific Gravity (Water=1): N/A

Solubility in water: Insoluble

Vapor Density: N/D

Flash Point: N/A

*Appearance and odor:* Crystalline white powder, no odor

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

*Method Used:* Unknown

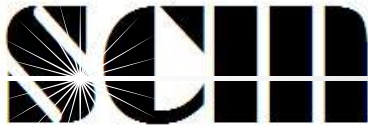
*Explosive Limits:* LEL: N/A

UEL: N/A

*Extinguishing Media:* Product is not flammable. Use firefighting measures that suit the surrounding 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:* If this product is involved in a fire, hydrogen fluoride (HF) and metal oxide fume can be released.



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## SECTION V - REACTIVITY DATA

*Stability:* Stable under recommended storage conditions

*Conditions to Avoid (Instability):* Decomposition will not occur if used and stored according to specifications.

*Incompatibility (Materials to avoid):* No information known

*Hazardous Decomposition or Byproducts:* Hydrogen fluoride and metal oxide fume

*Hazardous Polymerization:* No dangerous reactions known

*Conditions to avoid (hazardous polymerization):* None

## SECTION VI - HEALTH HAZARD DATA

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

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity in heat, itching, increased awareness of odor and taste, and liver damage. Fluorides may cause salivation, nausea, vomiting, and diarrhea, ad abdominal pain, followed by weakness, tremors, shallow respiration, convulsions, and coma. May cause brain and kidney damage. Chronic fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects.

*Signs and Symptoms of Overexposure:*

*Inhalation:* Harmful if swallowed

*Ingestion:* Harmful in inhaled

*Skin:* Causes skin irritation

*Eye:* Causes serious eye irritation

*Health Hazards (Acute and Chronic):* No information provided

*Target Organs:* May cause respiratory irritation

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

*Medical Conditions Aggravated by Exposure:* No data

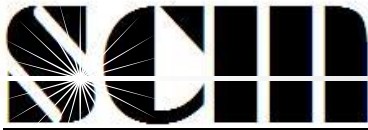
*Emergency and First Aid Procedures:*

*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 or below the PEL, TLV

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