

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: Titanium Carbide

Formula: TiC

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: 59.91

CAS #	OSHA PEL	ACGIH TLV	%
12070-08-5	NE	NE	0.0-100.0%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 4820°C	Vapor Pressure: NA
Melting Point: 3050.00°C – 323.00°C	Density (gm/cc): 4.93
Evaporation Rate: NA	Flash Point: N/A
Solubility in water: Insoluble/ Soluble in nitric acid & aqua regia	

Appearance and odor: Gray metallic powder and pieces, no odor

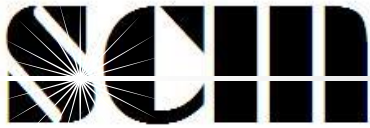
SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Unknown *Explosive Limits:* LEL: NA UEL: NA

Extinguishing Media: Use suitable extinguishing agent for surrounding materials 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:



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- Spontaneous dust explosion possibly due to static initiation if dust is very fine.
- Contact with acid and bases may generate flammable hydrogen gas.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (instability): None

Incompatibility (Materials to Avoid): Air, acids and bases

Hazardous Decomposition or Byproducts: Hydrogen

Hazardous Polymerization: Will not occur

Conditions to Avoid (Hazardous Polymerization): None

SECTION VI - HEALTH HAZARD DATA

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

TITANIUM COMPOUNDS: There are no reported cases in the literature where titanium as such has caused human intoxication. The dusts of titanium or most titanium compounds may be placed in the nuisance category. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

Signs and Symptoms of Overexposure:

Inhalation: May cause a red, dry throat and coughing.

Ingestion: No acute or chronic health effects recorded.

Skin: May cause redness, burning, and itching.

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Dust may cause irritation to the upper respiratory tract and mucous membranes.

Chronic: No chronic hazards recorded.

Ingestion:

Acute: No acute health effects recorded.

Chronic: No chronic health effects recorded.

Skin:

Acute: May cause skin irritation.

Chronic: No chronic health effects recorded.

Eye:

Acute: Prolonged or repeated contact may cause irritation.

Chronic: No chronic health effects recorded.

Target Organs: No target organ effects 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: If large quantities are consumed, induce vomiting and seek medical attention.

Ingestion: Remove victim to fresh air, seek medical attention.



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Skin: Brush material off skin. Wash affected area with soap and water. Seek medical attention.

Eye: Flush eyes with lukewarm water for 15 minutes, 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.

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