



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: Tellurium

Formula: Te

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: 127.60

CAS #	OSHA PEL	ACGIH TLV	%
13494-80-9	0.1mg/m ³	0.1mg/m ³	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 989.8°C

Vapor Pressure: 1 mm at 520.0°C

Melting Point: 449.5°C

Specific Gravity (water=1) 6.24 gm/cm³ at 30.0°C

Evaporation Rate: 0

Solubility in water: Insoluble

Appearance and odor: Silvery-white or dark gray powder and pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: NA

Explosive Limits: LEL: NA

UEL: N/A

Extinguishing Media: Use suitable extinguishing media for surrounding materials and type of fire.

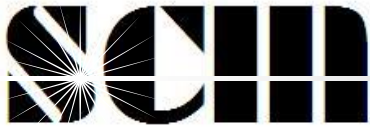
Special Fire Fighting Procedures: Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual Fire and Explosion Hazards:

–When heated to decomposition tellurium may emit fumes of tellurium.

–Burns in air with a greenish-blue flame, forming tellurium dioxide.

–May have a hazardous reaction with halogens, interhalogens, metals, hexalithium disilicide, silver bromate and silver iodate.



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SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): Incompatibilities

Incompatibility: Halogens, interhalogens, metals, hexalithium disilicide, silver bromate, and silver iodate.

Hazardous Decomposition or Byproducts: Oxides of tellurium and hydrogen telluride

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): N/A

SECTION VI - HEALTH HAZARD DATA

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

Elemental tellurium has relatively low toxicity. It is converted in the body to dimethyl telluride which imparts a garlic-like odor to the breath and sweat. Heavy exposures may, in addition, result in headache, drowsiness, and metallic taste, loss of appetite, nausea, tremors, convulsions, and respiratory arrest. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

Signs and Symptoms of Overexposure:

Inhalation: May cause a dry mouth, garlic-like odor to breath, sweat and urine, loss of appetite, sleepiness and nausea.

Ingestion: May cause a dry mouth, garlic-like odor to breath and urine, loss of appetite, sleepiness and nausea.

Skin: May cause redness and itching.

Eyes: May cause redness, itching and watering.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Toxic by inhalation. Dust may cause irritation to the respiratory system, dry mouth, garlic odor to breath, sweat and urine, nausea and vomiting.

Chronic: May cause anorexia, nausea, depression to the central nervous system and somnolence.

Ingestion:

Acute: Poison by ingestion. May cause dry mouth, suppression of sweat, garlic odor to breath and urine.

Chronic: May cause anorexia, nausea, depression to the central nervous system and somnolence.

Skin:

Acute: May cause irritation and itching.

Chronic: May cause dermatitis.

Eye:

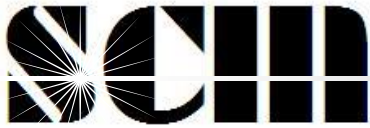
Acute: May cause irritation.

Chronic: No chronic health effects recorded.

Target Organs: No target organs recorded

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

Medical Condition generally Aggravated by Exposure: None recorded



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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 immediately.

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): Good general ventilation is 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