

Material Safety Data Sheet

Identity: Tellurium

Formula: Te

SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM 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	0-100%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 989.8 °C

Vapor Pressure: Essentially 0

Melting Point: 449.5 °C

Specific Gravity (water=1) 6.24

Evaporation Rate: 0

Solubility in water: Insoluble

Appearance and odor: Silvery-white element with metal characteristics, odorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: NA

Explosive Limits: LEL: NA

UEL: N/A

Extinguishing Media:

Do not use water, CO₂ or halogenated extinguishers. Use dry chemical extinguishing agents, dry sand or dry ground dolomite.

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: None

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): Incompatibilities

Incompatibility: Strong oxidizers, halogens, interhalogens, metals

Hazardous Decomposition or Byproducts: Oxides of tellurium

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): N/A

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Skin? Eyes? Ingestion? Other?

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause garlic like odor to breath and sweat, digestive distress, loss of appetite, dizziness, nausea, central nervous system depression.

Chronic: May cause decreased sweating, nausea, sleepiness, liver and kidney damage.

Ingestion:

Acute: May cause effects similar to those of inhalation

Chronic: None recorded.

Skin:

Acute: Skin contact may cause irritation and dermatitis. Soluble tellurium compounds may be absorbed through the skin.

Chronic: None recorded

Eye:

Acute: Dust or powder may cause irritation and conjunctivitis

Chronic: None known

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): 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