

Material Safety Data Sheet

Identity: Tin telluride

Formula: SnTe

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: 246.29

CAS #	OSHA PEL	ACGIH TLV	%
12040-02-7	not set	not set	100%

Recommended: 2mg/m³(Sn)0.1mg/m³(Te)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States:

Boiling Point: N/A	Vapor Pressure: N/A
Melting Point: 780 °C	Density : 6.48 g/cm ³
Evaporation Rate: N/A	Specific Gravity: N/A
Solubility in water: Insoluble	Percent Volatiles: N/A

Appearance and odor: Grey crystalline pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: NA *Auto Ignition Temp:* NA *Flammable Limits:* N/A

Extinguishing Media:

Use agents for metal fires such as dry chemical, graphite.

Unusual Fire and Explosion Hazards: May evolve toxic fumes of Te if involved in a fire.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions of Reactivity: Heat, flame, water/steam, oxidizers

Incompatibility: Water or steam and oxidizing materials

Hazardous Polymerization:

Hazardous Decomposition or Byproducts:

Decompositions: Sb, Sb₂O₃, Te, TeO_x

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation, Inhalation, dermal, eyes

Carcinogenicity: NTP: No IARC: No OSHA: No

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air, give oxygen if needed.

Ingestion: Give 1- 2 cups of milk or water and induce vomiting.

Skin: Brush off skin and wash with soap and water.

Eye: Flush eyes with lukewarm water for 15 minutes.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Store in tightly closed container in a cool dry place. Wash hands and face thoroughly after handling.

In Case of spill or leakage: Wear self-contained breathing apparatus and full protective clothing. Isolate area. Ensure proper ventilation and water/moisture is kept away. Vacuum up spill using a high efficiency unit. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

Respiratory: NIOSH approved

Impervious gloves: Yes

Eye and Skin Protection: Safety glasses

Ventilation:

Local Exhaust: Maintain below TLV for Sb, Te

Other: Handle in a dry, inert controlled atmosphere.

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