

Material Safety Data Sheet

Identity: Manganese Telluride

Formula: MnTe

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

Chemical Family: Manganese Telluride

Hazardous Components: Manganese Telluride

Molecular Weight: 182.54

CAS #	OSHA PEL	ACGIH TLV	%
12032-88-1	5mg/m ³	5mg/m ³	100%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: NA

Vapor Pressure: NA

Melting Point: NA

Vapor Density: NA

Evaporation Rate: NA

Specific Gravity (water=1): Approx. 6.50

Solubility in water: NE

Appearance and odor: Pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: NA

Method Used: Non Flammable

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:

When heated to decomposition, manganese telluride may emit toxic fumes of tellurium. May react violently with lithium when heated to 230 °C.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

Hazardous Polymerization: Will not occur.

Hazardous Decomposition or Byproducts: Fumes of tellurium.

SECTION VI - HEALTH HAZARD DATA

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Danger-Poison. May cause irritation to the respiratory tract, mucous membranes, dry mouth, garlic odor to breath, sweat and urine, nausea and vomiting.

Chronic: May cause pulmonary pneumonitis.

Ingestion:

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

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

Skin:

Acute: May cause irritation.

Chronic: May cause dermatitis.

Eye:

Acute: May cause irritation.

Chronic: May cause redness, itching and inflammation.

Target Organ:

Carcinogenicity: NTP?

IARC Monographs?

OSHA Regulated?

Medical Conditions Aggravated by Exposure:

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; keep warm and quiet; seek medical attention.

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 if symptoms persist.

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-Control Measures. Isolate spill area, provide ventilation and extinguishing 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/MSHA approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

Respiratory Protection (Specify Type): NIOSH – approved dust respirator.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

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