

Material Safety Data Sheet

Identity: Zinc Telluride

Formula: ZnTe

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 we assume no liability resulting from its use.

SECTION II - PRODUCT INFORMATION/HAZARDOUS INGREDIENTS

Zinc Telluride

Concentration % 100

CAS # 1315-11-3

Exposure Limits: ACGIH TLV – 0.1mg/m³

Molecular weight: 192.98

Melting point: 1238.50 C

Specific gravity (water = 1) 6.34 at 15.0 C

Appearance and Odor: Red powder and pieces, no odor.

SECTION III - FIRE AND EXPLOSION DATA

Flammability: No

Mean of Extinction: Dry chemical, CO or graphite. Wear a self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

SECTION IV - HEALTH HAZARD DATA

Mode of Entry: Inhalation, Skin

Carcinogenicity: NTP: No IARC: No OSHA: No

Acute Exposure:

Eyes: may cause burning sensation, irritation, redness and watering of the eyes if comes in contact.

Skin: May cause irritation, itching and dermatitis.

Ingestion:

Inhalation: May cause sneezing, coughing, difficulty breathing, nausea and irritation of the respiratory tract.

Emergency and First Aid:

In case of eye contact, flush eyes with lukewarm water for 15 minutes, seek medical attention. In case of skin contact, brush material off skin. Wash affected are with soap and water, seek medical attention.

In case of ingestion, give 1 – 2 glasses of milk and induce vomiting seek medical attention.

In case of inhalation, remove victim to fresh air, seek medical attention. Administer oxygen if breathing is difficult.

SECTION V – REACTIVITY DATA

Stability: Stable

Conditions to avoid: None

Hazardous decomposition or byproducts: Fumes of telluride.

Hazardous Polymerizations: Will not occur.

SECTION VI – ENVIORNMENTAL INFORMATION

Spill and leak procedures: Use normal cleanup procedures using water and broom or vacuum to take care of excessive dusting

Waste Disposal: Dispose in accordance with all applicable federal, state and local regulations

SECTION VII – PROTECTION INFORMATION

Respiratory Protection: Use appropriate NIOSH approved respirator if airborne dust concentrations exceed PEL or TLV

Ventilation: Provide sufficient general and local exhaust ventilation to maintain air concentrations of quartz below the PEL and TLV. If such ventilation is unavailable, use respirators as specified above.

Protective gloves: Use to prevent skin cuts and abrasions.

Eye Protection: Safety goggles are recommended.

Eye wash fountains should be readily available to areas of use.

SECTION VIII – SPECIAL PRECAUTIONS

Handling and Storage: Maintain good housekeeping techniques, such as mopping or vacuuming to remove dust accumulation. Avoid dust inhalation and contact with eyes.