

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Zinc telluride
CAS #: 1315-11-3
FORMULA: ZnTe

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1315-11-3	100	0.1mg/m3(as Te)	0.1mg/m3(as Te)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Inhalation of dust may cause garlic odor of breath, metallic taste, sleepiness, headache and nausea. Ingestion of moderate amounts of tellurium may be fatal.

PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Dust inhalation.

EYE CONTACT: May cause mild to moderate irritation of the eyes.

SKIN CONTACT: The dust may cause mild irritation of the skin.

INHALATION: Inhalation of dust may cause garlic odor of breath, metallic taste, sleepiness, headache and nausea.

INGESTION: Ingestion of only moderate amounts of tellurium dust may lead to nausea, vomiting, bloody diarrhea, weakness, and death.

CHRONIC HEALTH EFFECTS: prolonged exposure to tellurium containing dust may cause drowsiness and loss of appetite. Zinc fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales and dry cough.

ACUTE HEALTH EFFECTS: Dust may cause garlic odor of breath, metallic taste, sleepiness, headache, nausea, tremors, convulsions, and respiratory arrest.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable
AUTO IGNITION TEMPERATURE: no data
EXPLOSION LIMITS: no data
EXTINGUISHING MEDIUM: carbon dioxide, dry powder or foam
SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen telluride, a toxic fumes smelling unstable flammable gas may be produced in the presence of water.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Potentially combustible as fine dust. Dust may form explosive mixtures with air under some conditions

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in the absence of moisture.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in an efficient fume hood.
RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: gray powder
MOLECULAR WEIGHT: 192.97
MELTING POINT (DEG. C.): no data
BOILING POINT: no data
VAPOR PRESSURE: no data
SPECIFIC GRAVITY: 6.34
SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: moderately air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: Mixtures of fine dust with air in contact with an ignition source.
INCOMPATIBILITY: mineral acids, acidic aqueous solutions
DECOMPOSITION PRODUCTS: tellurium oxides and hydrides, zinc oxide

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files.
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: no data
To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
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