



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-18-07

CHEMICAL IDENTITY

LABEL IDENTITY	ZINC TELLURIDE
FORMULA	ZnTe
CAS REGISTRY NUMBER	1315-11-3

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Red lump
BOILING POINT	N/A
DENSITY (gm/cc)	6.34 g/cc
VAPOR PRESSURE @ 20°	N/A
% VOLATILE BY VOLUME (%)	N/A
REACTION WITH WATER	None
EVAPORATION RATE (H2O=1)	NA
SOLUBILITY IN WATER	Insoluble
MELTING POINT	1240 °C

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA
AUTOIGNITION TEMPERATURE (° C)	ND
FLAMMABILITY	*Non-flammable*
EXTINGUISHING MEDIA	Product is not flammable. Use fire fighting procedures that suit the surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES	Wear a self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARDS	In case of fire, toxic metal oxide fumes are released.



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HEALTH HAZARD INFORMATION

HMIS RATING:

HEALTH: **1** FLAMMABILITY: **0** REACTIVITY: **1**

EMERGENCY OVERVIEWS:

Harmful if inhaled, swallowed or absorbed through skin.

BIRTH DEFECT HAZARD:

Can cause birth defects.

PRIMARY IRRITATION:

Skin, eyes and mucous membranes

SUBACUTE TO CHRONIC TOXICITY:

Tellurium is converted in the body to Dimethyl Telluride which imparts a garlic-like odor to the breath and sweat. Heavy exposure may result in headache, drowsiness, metallic taste, loss of appetite, nausea, tremors, convulsions, and respiratory arrest. Zinc fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales, and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, muscle cramps, blurred vision, nausea, fever, perspiration, vomiting and leukocytosis.

CARCINOGENICITY: **none** NTP: **no** IARC MONOGRAPHS: **no** OSHA REGULATE: **no**

EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Seek medical treatment.**

INHALATION: **Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice.**

SKIN CONTACT: **Immediately wash with water and soap and rinse thoroughly.**

EYE CONTACT: **Rinse opened eye for several minutes under running water. Then consult a doctor.**



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REACTIVITY DATA

STABILITY	Stable
CONDITIONS CONTRIBUTING TO UNSTABILITY	None
INCOMPATIBILITY (MATERIALS TO AVOID)	Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic metal fumes and particles
HAZARDOUS POLYMERIZATION	Will Not Occur
CONDITIONS TO AVOID	None

SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **Wear suitable protective clothing and provide adequate ventilation.**

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal procedures.

SPECIAL PROTECTIVE INFORMATION

PROTECTIVE GLOVES	Rubber gloves
EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	Protective gear suitable to prevent contamination

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

No special precautions are necessary if used correctly. Store away from oxidizing agents.

HANDLING:

Keep container tightly closed. Store in cool, dry place in tightly sealed container. Ensure good ventilation.



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TRANSPORTATION REQUIREMENTS

DOT CLASS: **None**
ID NUMBER: **None**
IMDG CLASS: **None**
OTHER:

Not a hazardous material for transportation.

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NA= NOT APPLICABLE

ND= NO DATA FOUND

NR=NOT RECORDED