

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Telluride, Copper-doped

1. Product and Company Identification Trade Name: Zinc telluride, copper-doped Chemical Formula: ZnTe/Cu Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road Orangeburg City: New York State: 10962 Zip Code: USA Country: Tel #: 845-587-2436 / 845-lts-chem 24-Hour Emergency Contact: 800-424-9300 (US & Canada) +1-703-527-3887 (International) 2. Hazards Identification Signal Word: Warning arch itorias, Inc. Hazard Statements: H302+H332 Harmful if swallowed or inhaled **Precautionary Statements:** P261 Avoid breathing dust/fume/vapor P264 Wash thoroughly after handling P304+P340 If swallowed: Call a poison center or doctor

HMIS Health Ratings (0-4):	
Health:	
Flammability:	
Physical:	

	3. Composition			
Chemical Family:	Ceramic			
Additional Names:	None			
Zinc telluride (ZnTe):				
Percentage:	90-99 wt%			
CAS #:	1315-11-3			
EC #:	215-260-2			
Copper (Cu):				
Percentage:	1-10 wt%			
CAS #:	7440-50-8			
EC #:	231-159-6			

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	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce
Skin:	vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
P	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
Vantilation	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
	Exposure Controls and Personal Protection
Permissible Exposure Limits:	None
Threshold Limit Value:	0.1 mg/m^3 as Te, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
	sice ves/pants.

9. F	Physical and Chemical Characteristics		
Color	Red		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	1,295 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	6.34 g/cc		
Molecular weight:	192.99 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Oxidizing agents, Acids		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen telluride		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	Harmful		
Inhalation:	Harmful		
Chronic:	N/A		
Signs & Symptoms:	N/A Research		
	N/A N/A		
Aggravated Medical Conditions:	IV/A		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Mild		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative:	No		
Notes:	N/A		
	13. Disposal Considerations		

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data				
Hazardous:	Hazardous for pieces and powder.			
	POISON 6			
Hazard Class:	6.1 Toxic substances			
Packing Group:	III			
UN Number:	UN3284			
Proper Shipping Name:	Tellurium compounds, n.o.s. (Zinc telluride, copper-doped)			
	15. Regulatory Information			
Sec 302 Extremely Hazardous:	No			
Sec 304 Reportable Quantities:	N/A			
Sec 313 Toxic Chemicals:	Yes			

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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