

LTS Research Laboratories, Inc. Safety Data Sheet Zirconium Telluride

1. Product and Company Identification

Trade Name: Zirconium Telluride

Chemical Formula: ZrTe₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P264: Wash thoroughly after handling

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Zirconium ditelluride

Zirconium Telluride (ZrTe₂):

Percentage: 100 wt% CAS #: 32321-65-6 EC #: 250-988-4

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. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
Eyes:	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove	
Lycs.	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	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.	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	special protection information. Keep unprotected persons away. 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	
Work/Hygionia Maintananaa	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	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
	threshold limit.	
8.	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	0.1 mg/m ³ as Te, long-term value	
Threshold Limit Value:	0.1 mg/m ³ as Te, long-term value	
Special Equipment:	Properly operating chemical fume hood designed for hazardous	
	chemicals and having an average face velocity of at least 100 feet per	
Province Province	minute.	
Respiratory Protection: Protective Gloves:	Dust Respirator Butyl rubber gloves	
Eye Protection:	Butyl rubber gloves Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
-	sleeves/pants.	

9. Physical and Chemical Characteristics			
Color	Grey		
Form:	Powder		
Odor:	N/A		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
	N/A		
Melting Point:			
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	6.42 g/cc		
Molecular weight:	346.42 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Acids		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Metal oxide fume, tellurium dioxide, hydrogen telluride, zirconium		
Trazardous Decomposition i roducts.	oxide		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
	Harmful if swallowed		
Ingestion:			
Inhalation:	Harmful if inhaled		
Chronic:	N/A Research		
	hgratories, Inc.		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	N/A		
Carcinogen:	IARC: No component of this product present at levels greater than or		
	equal to 0.1% is identified as probable, possible or confirmed human		
	carcinogen by IARC.		
	NTP: No component of this product present at levels greater than or		
	equal to 0.1% is identified as a known or anticipated carcinogen by		
	NTP.		
	OSHA: No component of this product present at levels greater than or		
	equal to 0.1% is identified as a carcinogen or potential carcinogen by		
	OSHA.		
	12. Ecological Information		
Aquatic Toxicity:	N/A		
Persistent Bioaccumulation Toxicity:	N/A		
Very Persistent, Very Bioaccumulative:	N/A		
Notes:	Do not allow product to reach ground water, water course or sewage		
11000.	system.		
	Avoid transfer into the environment.		
	13. Disposal Considerations		

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

Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	

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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