

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Zirconium Telluride

1. Product and Company Identification		
Trade Name: Chemical Formula: Recommended Use:	Zirconium Telluride ZrTe <sub>2</sub> Scientific research and development	
Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone XI'AN Shaanxi 710077 China +86-29-88993870/+86-13519132051	
2. Hazards Identification		
Signal Word:	Warning	

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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 (ZrTe <sub>2</sub> ):			
Percentage:	100 wt%		
CAS #:	32321-65-6		
EC #:	250-988-4		

	4. First Aid Procedures
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Skin:	Keep patient warm. Seek immediate medical attention. Seek immediate medical attention. Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	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. 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: Storage Conditions:	Wash thoroughly after handling. 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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	0.1 mg/m <sup>3</sup> as Te, long-term value 0.1 mg/m <sup>3</sup> 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 minute.
Respiratory Protection:	Dust Respirator
Protective 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		
Melting Point:	N/A		
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 oxide		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	Harmful if swallowed		
Inhalation:	Harmful if inhaled		
Chronic:	N/A		
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		
	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	

16. Other Information

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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