

XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Lead Zirconium Titanium Oxide

1. Product and Company Identification

Trade Name: Chemical Formula:	Lead Zirconium Titanium Oxide PbZrxTi1-xO3
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 Shannxi 710077 China +86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H302+H332: Harmful if swallowed or if inhaled H350: May cause cancer H361: Suspected of damaging fertility or the unborn child H373: May cause damage to organs through prolonged or repeated exposure
Precautionary Statements:	 P202: Do not handle until all safety precautions have been read and understood P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash hands, face and any exposed skin thoroughly after handling P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area P281: Use personal protective equipment as required 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 P308+P313: IF exposed or concerned: Get medical advice/attention P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4): Health: Flammability: Physical:	2 0 0

3. Composition		
Chemical Family:	Inorganic Material	
Additional Names:	Lead Zirconate Titanate	
Lead Zirconium Titanium Oxide (PbZi	xTi1-xO3):	
Percentage:	100 wt%	
CAS #:	12626-81-2	
EC #:	235-727-4	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	Inhalation of high vapor concentrations may cause	
	symptoms like headache, dizziness, tiredness, nausea and vomiting.	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Give one to two glasses of water. Never induce vomiting or give	
	anything by mouth to an unconscious person.	
Skin:	Wash affected area with mild soap and water. Remove any	
	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	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Use water spray, CO ₂ , dry chemical, alcohol-resistant foam. Water mis may be used to cool closed containers	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spec. File Fighting Flocedule.	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	
II Material Is Released/Spined.	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.	
	Store in a cool dry place in a tightly sealed container. Store apart from	
Storage Conditions		
Storage Conditions:	materials and conditions listed in section 10.	
-		
Storage Conditions: Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before	
-	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with	
-	Do not use tobacco or food in work area. Wash thoroughly before	

8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	5 mg/m ³ as PbZrxTi1-xO3, long-term value
	10 mg/m ³ as PbZrxTi1-xO3, short-term value
Threshold Limit Value:	0.05 mg/m ³ as PbZrxTi1-xO3, long-term value
	10 mg/m ³ as PbZrxTi1-xO3, short-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.
9.]	Physical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	394.29 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents
Incompatible Conditions:	Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition
Hazardous Decomposition Products:	Lead oxide, Titanium oxide, 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:	May cause cancer. May cause damage to organs through prolonged or repeated exposure. May damage fertility or the unborn child
Median Lethal Dose:	N/A
Carcinogen:	Suspected of causing cancer ACGIH-A5

	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	Toxic N/A N/A N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation as powder only POISON 6
Hazard Class: Packing Group:	6.1 Poisonous Materials III
UN Number: Proper Shipping Name:	UN3288 Toxic solid, inorganic, n.o.s. (Lead Zirconium Titanium Oxide)
	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A N/A Yes
	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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