Flammability: Physical:

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

1. Product and Company Identification				
Trade Name: Chemical Formula: Recommended Use:	Zirconium silicate ZrSiO ₄ 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 XIAN SHAANXI 710077 CHINA +86-29-88993870/+86-13519132051			
	2. Hazards Identification			
Signal Word:	Warning			
Hazard Statements:	H315: Causes skin irritation H319: Causes serious eye irritation			
Precautionary Statements:	H335: May cause respiratory irritation P261: Avoid breathing dust/fume/vapor P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P362: Take off contaminated clothing and wash before reuse. P321: Specific treatment (see on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P405: Store locked up P403+P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container in accordance with local/regional/national/international regulations			
HMIS Health Ratings (0-4): Health: Flammability:	1 0			

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3. Composition Chemical Family: Ceramic Additional Names: Zirconium Silicon Oxide Zirconium Silicate (ZrSiO₄): Percentage: 100% CAS #: 10101-52-7 EC #: 233-252-7 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Keep patient warm. Seek medical advice. Seek medical treatment Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek medical advice Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Consult doctor 5. Firefighting Measures Non-flammable, except as powder Flammability: Extinguishing Media: No special restrictions 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. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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:** materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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:	5 mg/m ³ as Zr, long-term value			
Threshold Limit Value:	5 mg/m ³ as Zr, long-term value			
	10mg/m ³ as Zr, short-term value			
Special Equipment:	None			
Respiratory Protection:	Dust Respirator			
Protective Gloves:	Rubber gloves			
Trocetive Gloves.	Check gloves prior to each use			
Eye Protection:	Safety glasses or goggles			
Body Protection:	Protective work clothing. Wear close-toed shoes and long			
Body Protection.	sleeves/pants.			
9. P	Physical and Chemical Characteristics			
Color	White			
Form:	Powder			
Odor:	Odorless			
Water Solubility:	Insoluble			
Boiling Point:	N/A			
Melting Point:	2550 °C			
Flash Point:	N/A			
Autoignition Temperature:	N/A			
Density:	4.56 g/cc (at 20°C)			
Molecular weight:	183.305 g/mol			
Moleculai weight.	165.505 g/III01			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Oxidizing agents			
Incompatible Conditions:	None			
Hazardous Decomposition Products:	Silicon oxide, Zirconium oxide, Metal Oxide fume			
	11. Toxicological Information			
Potential Health Effects:				
Eyes:	Causes serious eye irritation			
Skin:	Causes skin irritation			
Ingestion:	May cause irritation			
Inhalation:	May cause irritation			
Chronic:	N/A			
Signs & Symptoms:	N/A			
Aggravated Medical Conditions:	N/A			
Median Lethal Dose:	N/A			
Carcinogen:	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals			
	12. Ecological Information			
Aquatic Toxicity:	N/A			
Persistent Bioaccumulation Toxicity:	N/A			
Very Persistent, Very Bioaccumulative:	N/A			
Notes:	N/Δ			

N/A

Notes:

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

14.	Transi	portation	Data

Hazardous: Not hazardous for transportation. Hazardous as powder only.

Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

15. Regulatory Information

Sec 302 Extremely Hazardous: N/A
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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