

# MATERIAL SAFETY DATA SHEET

Date: Jan. 12, 2017

## **1 PRODUCT AND COMPANY IDENTIFICATION**

- 1.1. Identification of Substance: Fused Alumina Zirconia, Fused Zirconia Alumina, AZ40, AZF25, AZS25
- 1.2. Company Identification: Zhangzhou Jinyuansheng Zr Industry Co., Ltd.  
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For emergency specialist advice  
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## **2 COMPOSITION/INFORMATION ON INGREDIENTS**

- 2.1. C.A.S.NO Aluminum oxide: 1344-28-1 EINECS NO.: Aluminum oxide: 215-691-6  
Zirconia: 1314-23-4 Zirconia: 215-227-2
- 2.2. Company Identification: Aluminum oxide (59.0% ~76.5%) + Zirconia (23.5% ~ 41.0%)  $\geq$  99.0%  
Impurities: SiO<sub>2</sub>+Fe<sub>2</sub>O<sub>3</sub>+CaO+MgO+Na<sub>2</sub>O+TiO<sub>2</sub>  $\leq$  1.0%
- 2.3 Risk Phases: None.
- 2.4 Safety Phases: None.
- 2.5 Classification/Symbol: None.

## **3 HAZARD IDENTIFICATIONS**

- 3.1 Eye Contact: Mechanical eye irritant. May cause tearing and redness. Flush eyes with copious amounts of water. If symptoms persist, seek medical attention.
- 3.2 Skin Contact: Mechanical skin irritant. Prolonged contact may cause skin abrasion, redness and itching. Wash with soap and water. If symptoms persist, seek medical attention.
- 3.3 Inhalation: Dust may be slightly irritating to the respiratory tract, resulting in coughing or shortness of breath. May affect the respiratory system. Relocate for fresh air. If symptoms persist, seek medical attention.
- 3.4 Ingestion: May cause nausea and vomiting. Leave decision to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

## **4 FIRE FIGHTING MEASURES**

- 4.1. Flammable / combustible properties None.
- 4.2. Extinguishing media Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.
- 4.3 Special fire fighting procedure In fire conditions, fire-fighters should wear appropriate respiratory protection and full protective gear.
- 4.4. Fire & explosion hazards Not applicable

## **5 ACCIDENTAL RELEASE MEASURES**

- 5.1. Personal Safety Protection: Avoid creating dust. Avoid contact with skin and eyes. Use adequate ventilation.
- 5.2. Environmental Precautions: Ensure material is properly disposed.
- 5.3. Cleaning Procedure: Collect spilled material mechanically, and place in a suitable, compatible, properly labeled container. Avoid creating any dust. Ensure adequate ventilation and dispose of material in accordance to all applicable local, state and federal laws.

## **6 HANDLING AND STORAGE**

- 6.1. Handling: Avoid contact with skin and eyes. Wash hands before eating. Avoid creating any dust. Handle with adequate ventilation.
- 6.2. Storage: Normal storage: Store in the original container in a cool, dry and well-ventilated area. Keep containers tightly sealed.

## **7 PHYSICAL AND CHEMICAL PROPERTIES**

- 7.1. Formula: N/A
- 7.2. Appearance: Grey to blue
- 7.3. Physical state: Solid grain
- 7.4. Odor: Odorless
- 7.5. Boiling point: N/A
- 7.6. Flash point: N/A
- 7.7. Melting point: 2000° C
- 7.8. Decomposition point: N/A
- 7.9. pH at 20° C: 8.5
- 7.10. Vapor pressure: N/A
- 7.11. Vapor density: N/A
- 7.12. Oxidizing properties: N/A
- 7.13. Explosive properties: None
- 7.14. Specific gravity: 4.3~ 4.7
- 7.15. Solubility: Insoluble
- 7.16. Bulk density: N/A

## **8 STABILITY AND REACTIVITY**

- 8.1. Chemical Stability: Stable.
- 8.2. Thermal Decomposition: N/A
- 8.3. Incompatibility: N/A
- 8.4. Conditions/Materials to Avoid: Unknown
- 8.5. Hazardous decomposition products: None
- 8.6. Dangerous reactions: Unknown
- 8.7. Hazardous Polymerization: Will not occur

**9 TOXICOLOGICAL INFORMATION**

9.1	Carcinogenicity	Data not available
9.2	Epidemiology	Data not available
9.3	Teratogenicity	Data not available
9.4	Neurotoxicity	Data not available
9.5	Mutagenicity	Data not available
9.6	Reproductive effects	Data not available

**10 ECOLOGICAL INFORMATION**

10.1	Ecotoxicity	Data not available
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**11 DISPOSAL CONSIDERATION**

11.1	Material	Can be stored with domestic waste. Observe local laws.
11.2	Contaminated packaging	Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local laws must be observed.

**12 TRANSPORT INFORMATION**

12.1	Land transport	Non hazardous material
12.2	Inland waterways	Non hazardous material
12.3	Maritime transport	Non hazardous material
12.4	Air transport	Non hazardous material

**13 REGULATORY INFORMATION**

13.1	None	None
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**14 FURTHER INFORMATION**

Technical data sheets are available for all grades of Fused Alumina Zirconia

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