

MATERIAL SAFETY DATA SHEET

Zirconia Fused Alumina

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Date: 2023-02-11

CAS # 1344-28-1

1. Product and Company Identification

Manufacturer/Supplier:

Zhengzhou Haixu Abrasives Co., Ltd

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Product Name: Zirconia Fused Alumina

2. Composition / Information on Ingredients

product	AlO3	ZrO2	TiO2	Fe2O3	SiO2
ZA25	68%-72%	24%-30%	1.5%max	0.5%max	1.0%max
ZA40	55%-57%	35%-44%	1.5%max	0.5%max	1.0%max

3. Hazards Identification

Emergency Overview:

Grey spheres, grain and/or powder with no odor. Inhalation of high concentrations of dusts of this substance may cause eye and upper respiratory tract irritation. This material is not flammable and does not support combustion. Primary routes of entry are inhalation, skin contact and eye contact.

Ingestion: May cause mild irritation.

Inhalation: May cause upper respiratory tract irritation.

Eye Contact: May cause mild irritation.

Skin Contact: May cause mild irritation.

Hazard Description

Medical conditions generally aggravated by exposure

Asthma, chronic lung conditions or diseases and skin rashes.

4. First Aid Measures

Ingestion:No toxic effects, treat symptomatically and seek medical advice as necessary.

Inhalation:No toxic effects. Classified as nuisance material.

Eye Contact:

MATERIAL SAFETY DATA SHEET

Zirconia Fused Alumina

Sharp particles can cause irritation.

Flush with clean water and seek medical advice if irritation continues. Use suitable eye protection as required.

Skin Contact:

No harmful effects wash with soap and water.

5. Fire Fighting Measures

Fire / Explosion Hazards:

This product does not present fire or explosion hazards as supplied.

Extinguishing Media:

As deemed suitable by the environment.

Fire Fighting Equipment:

Respiratory and eye protection required for fire fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6.

Accidental Release Measures

Person-related Safety Precautions:

Avoid contact with skin and eyes.

Cleaning and Collecting Spills:

Vacuum or sweep material and place in a disposal container. Avoid dusting. Ensure adequate ventilation.

7. Handling and Storage

Handling:

Avoid creating unnecessary excess dust during handling.

Storage:

No special storage requirements – shelf life indefinite.

8. Exposure Controls and Personal Information

Exposure Guidelines:

1344-28-1 Zirconia Fused Alumina (non-fibrous)

ACGIH 10mg/m³ (TWA - as Al)

OSHA PEL 15mg/m³ (TWA - total dust) 5 mg/m³ (TWA - respirable fraction)

Respiratory Protection:

Use NIOSH approved respiratory protection in case of insufficient ventilation and where exposure guidelines may be exceeded.

Skin Protection: Wear suitable gloves and long sleeve shirts to avoid skin irritation or injury.

Eye Protection:

Use of safety glasses with full side shields is always recommended. Where air turbulence may be present, goggles are also recommended.

MATERIAL SAFETY DATA SHEET

Zirconia Fused Alumina

9. Physical and Chemical Properties

Physical and Chemical Properties:

Melting Point	2250°C
S.G	4.30 g/cm ³
Flashpoint	Not applicable
Odour	None
Boiling Point	>1900°C
Water Solubility	Insoluble
Color	Grey
Hazardous decomposition Products	None
Hazardous reactions	None

10. Stability and Reactivity

Stability: Product is stable when used in accordance with specifications.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Reacts with chlorine trifluoride or ethylene oxide.

Hazardous Decomposition Products: None noted.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Inhalation Temporary discomfort or mechanical irritation to the upper respiratory tract may occur due to inhalation of high dust concentrations. No acute effects expected

Skin contact No determined toxicological effects.

Ingestion No determined toxicological effects.

Eyes High dust concentrations may cause mechanical irritation.

Alpha Alumina 4 (OES) Respirable

Titanium Dioxide 4 (OES) Respirable

12. Ecological Information

General Notes:

Environmental Statement :Persistent and non-biodegradable but is unlikely to have any long term effect on the environment.

Mobility Solid. Involatile. Insoluble in water

Degradability Non-biodegradable. Persistent.

Accumulation No bio-accumulation or bio-magnification identified.

13. Disposal Considerations

It may be disposed of as non toxic/inactive materials in approved landfill sites in accordance with local regulations. -----

14. Transport Information

It is not classified as dangerous for transportation under EU or UK national regulations. No special precautions are required.

DOT regulations:

MATERIAL SAFETY DATA SHEET

Zirconia Fused Alumina

Hazard class: None

Land transport ADR/RID (cross-border)

ADR/RID class: None

Maritime transport IMDG:

IMDG Class: None

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

15. Regulations

Product related hazard informations:

Hazard symbols: Xi Irritant

Risk phrases: 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

Information about limitation of use: For use only by technically qualified individuals.

16. Other Information

The information provided in this safety data sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, procession, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for sun material used in combination with any other materials or in any process.

