

	Zircar Zirconia, Inc. P.O. Box 287 Florida, NY 10921-0287 (845)651-3040 Emergency (845)258-9148 www.zircarzirconia.com	Safety Data Sheet Dense Alumina	Document #:	Rev.:	Date:
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1. Product Identification

Product Types: Dense Alumina
Synonym: Alumina Ceramics

2. Hazards Identification: None.

Label Elements

Hazard Pictograms (GHS-US): None.
Signal Word (GHS-US): None.
Hazard Statements: None
Precautionary Statements: P261 Avoid breathing dust.
 P280 Wear protective gloves, protective clothing, and eye protection.
 P285 In case of inadequate ventilation wear respiratory protection.
 P305/351/338 If in eyes rinse with water for several minutes.
 P302/352 If on skin wash with plenty of soap and water.

Hazards not otherwise classified: None.

3. Composition

Component	Synonyms	CAS Number	% by Weight	Classification (GHS-US)
Alumina	Aluminum Oxide	1344-28-1	100	None

4. First Aid Measures

Inhalation: Not applicable.
Eye Contact: Do not rub eyes. Keep hands or contaminated body parts away from eyes. Remove contact lenses. Flush with water. If irritation persists, consult a physician.
Skin Contact: Not applicable.
Ingestion: Not applicable.

5. Fire-Fighting Measures: Product is not flammable.

Special Hazards arising from the substance: None

Advice for firefighters: None

6. Accidental Release Measures:

Personal Precautions, Protective Equipment and Emergency Procedures: None. **General Measures:** Clean up with any mechanical means. **Environmental Precautions:** None.

7. Handling and Storage

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Storage conditions: These materials are stable and may be stored indefinitely.

Incompatible Products: Powerful oxidizers; fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, etc.

Specific End Use: Insulation

8. Exposure Controls/ Personal Protection

Control Parameters

Alumina	OSHA PEL as 8 hr TWA	15mg/m ³ Total Dust, 5mg/m ³ Respirable Fraction	ACGIH PEL as 8 hr TWA	1mg/m ³
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Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation. Emergency eye wash should be available. Ensure regulations are observed.

Personal Protective Equipment: Protective goggles, gloves, protective clothing. Dust formation: dust mask type N95.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

9. Physical and Chemical Properties

Physical State	Solid	Auto ignition Temperature	No data available
Color	White, off-white	Decomposition Temperature	
Odor	None	Flammability (solid, gas)	
Odor Threshold	No data available	Vapor Pressure	
pH		Relative Vapor Density at 20C	
Evaporation Rate		Relative Density	
Melting/ Freezing Point	2038C	Solubility	
Boiling Point	No data available	Partition Coefficient: N-Octanol/ Water	
Flash Point		Viscosity	

10. Stability and Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Incompatible Materials: Strong oxidizers, strong acids

Hazardous Decomposition Products: None.

11. Toxicological Information: No Information available

Epidemiology: No Information Available

Distribution: Alumina, is naturally occurring and widely distributed

in igneous rock. **Chemical Fate Information:** The relative inertness of this material indicates that it may be highly persistent in the environment. No information regarding any negative effects of this persistence has been noted.

12. Ecological Information: Ecological data are not available.

13. Disposal Considerations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

14. Transportation Information: Not regulated.

15. Regulatory Information: Not regulated.

16. Other Information: The information contained herein is based on data considered to be accurate as of the preparation or revision date. It is provided in good faith and in compliance with state and federal regulations. No warranty or representation, express or implied is made as to the accuracy or completeness of this information. Other national, state and/or local regulations may apply.