

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

2. Hazards Identification
Classification of Substance or Mixture
Classification (GHS-US): H315, H318, H335
GHS Label Elements
Hazard Pictograms (GHS-US)



Signal Word (GHS-US): **Danger**
Hazard Statements: H315 Causes skin irritation
H318 Causes serious eye damage
H335 May cause respiratory irritation

Precautionary Statements
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves, protective clothing, and eye protection.
P305/351/338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304/340 If inhaled dust may cause irritation or soreness of throat and nose. Remove person to fresh air and keep at rest in a position for comfortable breathing.
P501 Dispose of contents/ container in accordance with local, regional, national, and international regulations.
Hazards not otherwise classified: None

3. Composition

Component	Synonyms	CAS Number	% by Weight	Classification (GHS-US)
Cerium Oxide	Ceria	1306-38-3	43	None
Water	H ₂ O	7732-18-5	46	None
Cerium Acetate	None	537-00-8	11	H315, H318, H335

4. First Aid Measures

Inhalation: Remove to fresh air. Rinse mouth to clear throat and expel liquid. Blow nose to evacuate dust. Consult a physician if irritation persists.
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: Wash with soap and water. For dryness, a skin cream may be helpful. Do not apply anything to a rash. Consult a physician if irritation persists.
Ingestion: Do not induce vomiting without advice of a physician. Seek medical attention.

5. Fire-Fighting Measures: Product is not flammable. **Special Hazards arising from the substance:** None **Advice for firefighters:** None

6. Accidental Release Measures: Clean up with a sponge, mop or damp cloth. When dried, clean up minimizing airborne dust.

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid contact with skin, eyes, or clothing. Avoid breathing dust.
For Non-Emergency Personnel: Use appropriate personal protection equipment (PPE), gloves, glasses, dust mask.
For Emergency Responders: Equip cleanup crew with proper protection. Ventilate area.
Environmental Precautions: None.
References to Other Sections: See section 8. Exposure Controls/ Personal Protection. For waste disposal refer to section 13.

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.
Machining and cutting: These materials may produce nuisance dust when dried, machined or cut.

Conditions for Safe Storage, Including any Incompatibilities

Storage conditions: These materials are stable and may be stored indefinitely.
Incompatible Products: Powerful oxidizers, acids and bases
Specific End Use: Ceria insulation hardening

8. Exposure Controls/ Personal Protection

Control Parameters

The components listed are not classified as hazardous. Exposure controls are based on nuisance dust applicable to dried product.

OSHA PEL as 8 hr TWA	15mg/m ³ Total Dust, 5mg/m ³ Respirable Fraction	ACGIH PEL as 8 hr TWA	10mg/m ³ Total Dust
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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	Suspension	Auto ignition Temperature	No data available	
Color	White, tan, orange	Decomposition Temperature		
Odor	Slightly Acidic	Flammability (solid, gas)		
Odor Threshold	No data available	Vapor Pressure		
pH	4-5	Relative Vapor Density at 20C		
Evaporation Rate	No data available	Relative Density		
Melting/ Freezing Point		Solubility		
Boiling Point		Partition Coefficient: N-Octanol/ Water		
Flash Point		Viscosity		20 cps

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: Powerful oxidizers, acids, bases. **Hazardous Decomposition Products:** None.

11. Toxicological Information: No information available.

Epidemiology: No Information Available
Distribution: Cerium oxide is a rare earth oxide and has limited distribution.
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 hazardous substances, no specific regulations apply.

15. Regulatory Information

WHMIS Status: This is not a controlled product.
California Proposition 65: Not listed
SARA Section 313 Supplier Notification: This product does not contain toxic chemicals subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 Section 313 (40 CFR 372).

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.