

## 1. Identification

### Product Name

Cerium Oxide Glass Polishing Powder

### Catalog Numbers:

C0453, C0544, C0453W, C0453WA, C0653, C0853, C0301, C0305, C0310

### Distributor Information Address:

C.R. Laurence Co., Inc.  
2503 E. Vernon Ave.  
Los Angeles, CA 90058-1826  
Telephone: (323) 588-1281

**Emergency Telephone Number: CHEMTREC: (800) 424-9300 (24 hours).**

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## 2. Hazards Identification

### Classification of the substance or mixture

Not a hazardous substance or mixture.

### Hazards not otherwise classified or not covered by GHS

None.

### GHS label elements, including precautionary statements

Not a hazardous substance or mixture.



**Signal word**

Warning

### Precautionary statements

P261: Avoid breathing dust

P271: Use only in a well-ventilated area.

P280: Wear protective gloves and eye protection.

P284: Wear respiratory protection in case of inadequate ventilation

P402: Store in a dry place

P403: Store in a well ventilated place

P404: Store in a closed container

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Rare Earth Oxide	68188-83-0	*
Rare Earth Fluoride	68188-85-2	*
Aluminum Silicate	1332-58-7	*

\* The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret

Rare Earth Oxide is a mixture of Cerium Oxide (1306-38-3), Lanthanum Oxide (1312-81-8), Praseodymium Oxide (12037-29-5), and Neodymium Oxide (1313-97-9) .  
 Rare Earth Fluoride is a mixture of Cerium Fluoride (7758-88-5) and Lanthanum Fluoride (13709-38-1).

### 4. First Aid Measures

#### Description of first aid measures

**Inhalation:**

Remove to fresh air. If required, provide artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Eye Contact:**

Flush eyes with water, as a precaution.

**Ingestion:**

Rinse mouth with water. Never give anything by mouth to an unconscious person.

**Skin Contact:**

Wash with soap and water, and rinse thoroughly.

**Most important symptoms and effects, both acute and delayed**

No data available

**Indication of any immediate medical attention and special treatment needed:**

No data available.

## 5. Fire Fighting Measures

### Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

No data available. Product is non-flammable.

### Advice for firefighters

Wear self-contained breathing apparatus for fire fighting, if necessary.

### Further information

No data available.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing dust. Wear proper protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

### Environmental Precautions:

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Wear personal protective equipment. Sweep up and shovel into suitable, closed containers for disposal.

## 7. Handling and Storage

### Precautions for safe handling

Avoid dust formation. Avoid breathing dust.

Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear NIOSH approved respiratory equipment.

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Work in a well ventilated area. Wear proper protective equipment.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Exposure Limits:

Component	PEL (OSHA)	TLV (ACGIH)
Rare Earth Oxide	15 mg/m <sup>3</sup> Total; 5 mg/m <sup>3</sup> Respirable	10 mg/m <sup>3</sup> Total; 3 mg/m <sup>3</sup> Respirable
Rare Earth Fluoride	2.5 mg/m <sup>3</sup> as F	2.5 mg/m <sup>3</sup> as F
Aluminum Silicate	15 mg/m <sup>3</sup> TWA (Total dust) 5 mg/m <sup>3</sup> TWA (Respirable)	2 mg/m <sup>3</sup> TWA (Respirable fraction)

### Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

#### Eye/face protection:

Use equipment for eye protection, tested and approved by NIOSH. Chemical goggles are recommended.

#### Skin Protection:

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands afterwards.

#### Body Protection:

Wear protective clothing. Remove and wash contaminated clothing before re-use.

#### Respiratory Protection:

Use NIOSH approved respiratory protection in cases of insufficient ventilation, or if concentrations are above the exposure limits.

#### Control of Environmental Exposure:

Do not let product enter drains.

## 9. Physical and Chemical Properties

Appearance	Light red powder or off white powder
Odor	Odorless
Odor threshold	No data available
pH	6.5 - 7.5 in 10% slurry
Boiling Point:	NA, powder
Freezing Point:	NA, powder
Melting Point:	No data available
Flash point:	No data available
Evaporation rate	No data available
Flammability (solid,gas)	NA. Non-flammable

Initial boiling point and  
boiling range            NA, powder

Upper/lower flammability  
or explosive limits    NA. Non-flammable

Vapor pressure	No data available
Vapor density	No data available
Relative density	4.5 – 6.5 g/ml
Water Solubility	Insoluble

Partition coefficient  
(n-octanol/water)    No data available

Auto-ignition  
temperature            No data available

Decomposition  
temperature            No data available

Viscosity                NA, powder

## 10. Stability and Reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions:

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

No data available. In the event of fire, see section 5

**11. Toxicological Information**

**Information on toxicological effects**

**Acute toxicity**

Rare Earth Oxide

NIOSH - LD50s and LC50s Oral LD50 (rat) > 5,000 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

Not listed by IARC, NTP or OSHA as a carcinogen.

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

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## 12. Ecological Information

### Toxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

Not data available

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## 13. Disposal Considerations

### Disposal instructions

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Result indicates that Thorium is non-detectable at the limit of the test method (< 5 ppm) when tested by the ICP-MS method.

Per U.S. Nuclear Regulatory Commission Regulations 10 CFR 40.13, end user is exempt from the regulations and from the requirements for a license.

Unused product is nonhazardous for characteristic toxicity when tested by the EPA TCLP Method.

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## 14. Transport Information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## 15. Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Chronic health hazard.

### Massachusetts Right To Know Components

Aluminum silicate

### Pennsylvania Right To Know Components

Aluminum silicate

### New Jersey Right To Know Components

Aluminum silicate

### California Proposition 65 Components

This product contains the following substances known to the state of California to cause cancer and/or reproductive harm:

Aluminum silicate.

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## 16. Other Information

Version#: 04

**HMIS RATING**

Health 1, Flammability 0, Reactivity 0, Personal Protection E

**NFPA RATING**

Health 1, Flammability 0, Reactivity 0

**Issue Date**

April 28, 2015

Version#:01

June 18, 2015

Version#: 02

June 04, 2017

Version#: 03

August 02, 2017

Version#: 04

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