

## SAFETY DATA SHEET

Current Revision: 2, 3/15/2016	Prepared By: Ben Ward, Product Engineer
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### I. IDENTIFICATION

<b>EMERGENCY PHONE:</b> <p style="text-align: center;"><b>CHEMTREC- (800) 424-9300 CCN 19481</b></p>	Salem Fabrication Supplies 5901 Gun Club Road Winston-Salem, NC 27103 Information: <b>(800) 234-1982</b>
<b>PRODUCT NAME:</b> Quantum Cerium Oxide Compound	
<b>SYNONYMS:</b> Cerium Oxide, Rare Earth Oxide/Fluoride	

**Recommended Use:**

Industrial polishing and processing.

**Restrictions:**

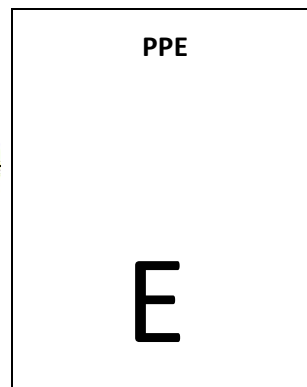
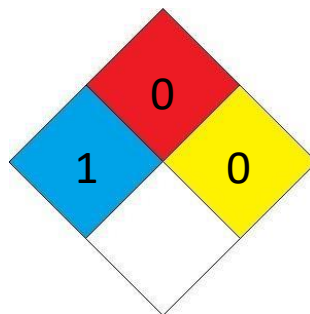
Industrial and professional use.

### II. HAZARD IDENTIFICATION

**Classification (§1910.1200):**

Not a hazardous product according to Globally Harmonized System (GHS).

**Signal Word/Symbols:**



N/A

**Hazard Statement:**

N/A

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5901 Gun Club Road  
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**Office:** 800.234.1982 | 336.766.1104

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**Precautionary Statement:**

N/A

**Miscellaneous Hazards:**

N/A

**Unknown Acute Toxicity Statement:**

N/A

### III.COMPOSITION

CHEMICAL NAME:	COMMON NAMES:	CAS:	% BY WEIGHT:
Kaolin	N/A	1332-58-7	50-70
Rare Earth Fluorides	N/A	68188-85-2	5-10
Trade Secret	N/A	12141-46-7	1-5

\*Information withheld as a trade secret

**Classified Impurities and Additives:**

N/A

### IV.FIRST AID MEASURES

**Inhalation:**

Remove to fresh air. If unconscious place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person.

**Skin Contact:**

Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**Eye Contact:**

Rinse immediately with plenty of water and seek medical advice.

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**Ingestion:**

Do not induce vomiting. Rinse immediately with plenty of water and seek medical advice.

**Symptoms/Effects:**

May cause irritation.

**Level Of Medical Attention Needed:**

Contact physician if symptoms persist.

## V. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:**

Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards:**

Exposure to decomposition products may be a hazard to health. Do not allow run-off from firefighting to enter drains or water courses.

**Special Protective Equipment:**

In the event of fire, wear self-contained breathing apparatus.

## VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Ensure adequate ventilation.

**Protective Equipment:**

Wear suitable gloves, safety glasses, and protective clothing. If dust is present wear respirator.

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**Emergency Procedures:**

Follow safe handling advice and personal protective equipment recommendations.

**Methods for Cleanup/Removal:**

Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

**VII. HANDLING AND STORAGE**

**Handling Precautions:**

Do not get in eyes or mouth or on skin. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Do not use in areas without adequate ventilation.

**Safe Storage Conditions:**

Keep in a dry, cool and well-ventilated place.

**Incompatibilities:**

Keep away from heat and sources of ignition. Strong acids and bases.

**VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT**

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OSHA PEL:	ACGIH TLV:	OTHER EXPOSURE LIMITS:
<p><b>P0</b> Rare Earth Fluorides: 2.5mg/m<sup>3</sup></p> <p>Kaolin: 10mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p> <p>Trade Secret: 15mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p> <p><b>Z-1</b> Rare Earth Fluorides: 2.5mg/m<sup>3</sup></p> <p>Kaolin: 15mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p> <p>Trade Secret: 15mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p>	<p>Rare Earth Fluorides: 2.5mg/m<sup>3</sup></p> <p>Kaolin: 2mg/m<sup>3</sup>TWA Resp Frac</p>	<p><b>NIOSH REL</b> Kaolin: 10mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p> <p>Trade Secret: 10mg/m<sup>3</sup> Tot dust, 5mg/m<sup>3</sup> Resp frac</p>

**Appropriate Engineering Controls:**

Apply technical measures to comply with the occupational exposure limits. Provide adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Measures:**

Protective gloves, safety glasses with side-shields, and protective clothing.

Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

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## IX. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

Powder

<b>Odor:</b> None	<b>Odor Threshold:</b> No data available.	<b>Ph:</b> No data available.
<b>Melting/Freezing Point:</b> No data available.	<b>Boiling Point:</b> No data available.	<b>Boiling Range:</b> No data available.
<b>Flash Point:</b> No data available.	<b>Evaporation Rate:</b> No data available.	<b>Flammability (Solid, Gas):</b> No data available.
<b>Upper/Lower Flammability/Explosive Limit:</b> No data available.	<b>Vapor Pressure:</b> No data available.	<b>Vapor Density:</b> No data available.
<b>Relative Density:</b> No data available.	<b>Solubility (ies):</b> No data available.	<b>Partition Coefficient: NOctanol/Water:</b> No data available.
<b>Auto Ignition Temperature:</b> No data available.	<b>Decomposition Temperature:</b> No data available.	<b>Viscosity:</b> Not applicable, solid

## X. STABILITY AND REACTIVITY

**Reactivity:**

No data available.

**Chemical Stability:**

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Stable

**Possibility of Hazardous Reactions:**

None known.

**Conditions to Avoid: Static Discharge, Shock, Vibrations, Etc.** Dust generation, incompatible materials **Incompatible Materials:**

Strong acids and bases.

**Hazardous Decomposition Products:**

None known.

## **XI. TOXICOLOGICAL INFORMATION**

**Possible Exposure Routes (Inhalation Etc.):**

Inhalation, skin contact, ingestion, and eye contact.

**Symptoms Related To Toxicological Characteristics:**

May cause irritation.

**Delayed, Immediate, and Chronic Effects:**

Irritation may persist.

**Numerical Toxicity Measurements:**

Acute oral toxicity:

LD50 Oral (Rat): > 5 g/kg

Acute inhalation toxicity:

LC50 (Rat): > 5,800 mg/m<sup>3</sup> Exposure time: 4 h

**NTP/LARC/OSHA Known Carcinogen:**

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No genotoxicity, carcinogenic, mutagenic, or teratogenic effects known.

## XII. ECOLOGICAL INFORMATION

### Ecotoxicity:

No data available.

### Persistence and Degradability:

No data available.

### Bioaccumulative Potential:

No data available.

### Soil Mobility:

No data available.

### Other Adverse Effects:

Not classified as dangerous to the environment.

## XIII. DISPOSAL CONSIDERATIONS

### Waste Residue and Disposal:

Clean with cold water. Dispose in accordance with local regulations.

## XIV. TRANSPORT INFORMATION

<b>UN Number:</b> N/A	<b>UN Proper Shipping Name:</b> Not hazardous.	<b>Transport Hazard Class (es):</b> Not regulated as hazardous.
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<b>Packing Group:</b> N/A	<b>Environmental Hazards:</b> None	<b>Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code)</b> N/A
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**Special Precautions:**

None

**XV. REGULATORY INFORMATION**

**Environmental/ Health/ Safety:**

SARA 311/312 Hazards: Chronic Health Hazard.  
 Massachusetts Right To Know: This product contains components that are reportable under the regulation.  
 Pennsylvania Right To Know: This product contains components that are reportable under the regulation.  
 New Jersey Right To Know: This product contains components that are reportable under the regulation.

TSCA: On TSCA Inventory  
 DSL: All components of this product are on the Canadian DSL.  
 AICS: On the inventory, or in compliance with the inventory.  
 NZIoC: On the inventory, or in compliance with the inventory.  
 KECI: On the inventory, or in compliance with the inventory.  
 PICCS: On the inventory, or in compliance with the inventory.  
 IECSC: On the inventory, or in compliance with the inventory.

**XVI. OTHER INFORMATION**

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Salem Fabrication Supplies. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Salem Fabrication Supplies assumes no legal responsibility for use of or reliance upon this information.

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