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## Section 1: Product and Company Identification

**Catalogue#:** Ce-A20

**Product Description:** Cerium Oxide Polishing Powder, TREO: >94%, CeO<sub>2</sub>/TREO: 62%-75%, D50: 2.0-2.5 micron

Emergency Phone Number: 1-520-514-1100

**Contact Information:**

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## Section 2: Hazard Identification

Entry Routes	Potential Health Effects
Inhalation	Breathing dust may result in irritation of the nose and throat, coughing, shortness of breath and bronchitis. Existing respiratory disorders may be aggravated by exposure.
Ingestion	All accidental ingestion of dust or slurry may cause irritation of the ingestion tract.
Skin Contact	Dust may be abrasive and mildly irritating.
Skin Absorption	Not absorbed through the skin.
Eyes	Dust may irritate eyes. Contact with dust or slurry may be abrasive and irritating causing tearing and redness
Chronic and Carcinogenicity	Prolonged inhalation / overexposure to dusts may cause irreversible lung damage.
<p><b>Note to Physician:</b> Lanthanides, because of their high density, can produce abnormalities on chest x-ray. Lanthanides generally are not felt to be fibrogenic and the lesions typically have little of no clinical significance. However, occasional cases of pneumoconiosis have been reported. Use self-contained breathing apparatus, NOISH approved, to avoid dust or fumes generated during fire fighting efforts.</p>	

### **Section 3: Composition/Information on Ingredients**

#### **Typical Chemical Sheet of Raw Material**

TREO	CeO <sub>2</sub> /TREO	Pr6O11/TREO	F	Lanthanum Oxide
>94%	62~75%	<0.01	4~5	28-32%

### **Section 4: First-Aid Measures**

<b>Entry Routes</b>	<b>First Aid</b>
Inhalation	Remove to fresh air; apply artificial respirations as needed. Obtain first aid or medical assistance.
Ingestion	Obtain first aid or medical assistance if needed. Drink large amounts of water if patient is conscious.
Skin Contact	Wash with large amounts of water. Obtain first aid or medical assistance if needed.
Eyes	Wash with large amounts of water. Obtain first aid or medical assistance if needed. Avoiding rubbing. May cause to scratch eye.

### **Section 5: Fire and Explosion Data**

Flash Point:	N/A	<b>Special Fire Fighting Procedures:</b> Product will not burn. Cool material in or near fires with a waterspray or fog if compatible with fire fighting techniques for the other materials involved in the fire. A self-contained breathing apparatus operating in the positive pressure mode, NOISH-approved, to avoid dust or fumes generating during the fire fighting efforts.
LFL:	N/A	
UFL:	N/A	
Method Used:	N/A	
Extinguishing Media:	N/A	
Unusual Fire and Explosion Hazards:	None	

## **Section 6: Accidental Release Measures**

<b>Personal Precautions:</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment.
<b>Methods for Cleaning Up:</b>	Spill Procedures: Use dustless methods - vacuum and place into closable container for disposal, or flush with water. Do not dry sweep. Flush spilled material into suitable retaining areas or containers with water to avoid airborne particulates. Keep upwind.

## **Section 7: Handling and Storage**

See Section 6 and 8

Store in a cool, dry location, Keep container tightly closed in a dry and well-ventilated place.

Incompatibility (Materials to avoid): Do not store with or near strong acids, or reducing agents.

## **Section 8: Exposure Controls/Personal Protection**

<b>Ventilation:</b>	Local exhaust to maintain exposures below applicable exposure limits.
<b>Respiratory:</b>	If airborne concentrations exceed established limits, a NIOSH approved respirator should be worn. In order to limit exposure to NORM, production workers should wear appropriate NIOSH approved dust respirator when conditions are dusty, such as during clean-up and equipment malfunction.
<b>Eye:</b>	Safety glasses for protection against particulate matter.
<b>Other:</b>	Polymetric gloves to prevent irritation. Appropriate body covering to protect work clothes if working in dusty areas. All personal protective equipment should be thoroughly cleaned and decontaminated prior to re-use.

### **Section 9: Physical and Chemical Properties**

<b>Color</b>	White	<b>Physical State</b>	Powder
<b>Odor</b>	Odorless	<b>Molecular Weight</b>	N/A
<b>Boiling Point/Range(°C)</b>	N/F	<b>PH</b>	8-9
<b>Freezing Point/Range(°C)</b>	N/F	<b>Specific Gravity (Water=1)</b>	1.8
<b>Vapor Pressure (MMHG)</b>	N/F	<b>Evaporation Rate (Water=1)</b>	N/F
<b>Water Solubility (MG/L)</b>	Insoluble	<b>VOC Content (%)</b>	N/F

### **Section 10: Stability and Reactivity**

<b>Stability and Polymerization:</b>	Product is stable. Hazardous polymerization will not occur.
<b>Incompatibility (Materials to avoid):</b>	Do not store with or near strong acids, or reducing agents.
<b>Hazardous Decomposition Products:</b>	Hazardous decomposition will not occur.
<b>Special Sensitivity:</b>	None that are known.

### **Section 11: Toxicological Information**

See potential health effects in Section 2

### **Section 12: Ecological Information**

N/A

### **Section 13: Disposal Considerations**

**Waste from residues/ Unused Products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

### **Section 14: Transport Information**

**DOT Hazard Class:** Not regulated material.

**U.N. / N.A. Number:** N/A

### **Section 15: Regulatory Information**

(Not meant to be inclusive – Selected regulation represented)

**OSHA Status:** Material contains low levels of naturally occurring radioactive material (NORM) because of the rare earth.

**TCSA Status:** Listed in TSCA

**Cercla Reportable:** No

**Sara Title III:**

Section 302 Extremely: No

Section 311/312: Yes

Section 313 Toxic: No

**RCRA Status:** No

**California Proposition 65:** N/A

### **Section 16: Other Information**

**HMIS Rating:**

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

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