

# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

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Product Code  
Superox 100T

Product Name  
Cerium Oxide Polishing Compound

Manufacturer's Name  
Cercoa

Emergency Telephone Number  
216-641-5324

Date Prepared  
December 19, 1999

## Section 2. Composition / Information on Ingredients

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Component	CAS Registry#	wt%	ACGIH TLV	OSHA PEL
Rare Earth Oxide	68188-83-0	*	10mg/m3 Total **	15mg/m3
Rare Earth Fluoride	68188-85-2	*		2.5mg F/m3
Aluminum Silicate	1332-58-7	<15%	2mg/m3 Resp	10mg/m3***

\*Combined Rare Earth Oxide/Rare Earth Fluoride levels are greater than 85%

Respirable Levels = \*\*3mg/m3      \*\*\*5mg/m3

## Section 3. Hazards Identification

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### Emergency Overview

If caused to dust above the TLV, PEL or TWA limits, personal protective equipment is required. Read above ingredients limits. Prolonged overexposure to dusts may cause lung damage. This product is under TCLP limits.

This material contains very low levels of naturally occurring radioactive material (NORM).

### Potential Health Effects

Eye contact:

Dust may irritate eyes. Contact with dust or slurry may be abrasive and irritating causing tearing and redness.

Inhalation:

Breathing dust may result in irritation of the nose and throat; coughing, shortness of breath and bronchitis. Existing respiration disorders may be aggravated by exposure.

Skin Contact:

Not absorbed through skin

Dust may be abrasive and mildly irritating

Ingestion:

All accidental ingestion of dust or slurry may cause irritation of the digestive tract.

Chronic effects / Carcinogenicity

Prolonged inhalation / overexposure to dust may cause irreversible lung damage.

Teratology (birth defect) information:

N/A

Reproduction information:

N/A

#### **Section 4. First Aid Measures**

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Inhalation:

Remove to fresh air, apply artificial respiration as needed. Obtain first aid or medical assistance.

Eye Contact:

Wash with large amounts of water. Obtain first aid or medical assistance if needed.

Avoid rubbing. May cause to scratch eye. Seek Medical attention.

Skin Contact:

Remove contaminated clothing and flush affected area with large amounts of water.

Obtain first aid or medical assistance if needed.

Ingestion:

Obtain first aid or medical assistance if needed.

Drink large amounts of water if patient is conscious.

Note to Physician:

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 or no clinical significance. However, occasional cases of pneumoconiosis have been reported.

#### **Section 5. Fire Fighting Measures**

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Flammable Properties:

Flash point: N/A

Method Used: N/A

Flammable Limits:

LFL: N/A

UFL: N/A

Extinguishing media:

N/A

Fire and Explosion Hazards:

Not flammable

No flash point

No fire or explosion hazard

Fire fighting instructions:

Use self-contained breathing apparatus, NOISH approved, to avoid dust or fumes generated during fire fighting measures.

#### **Section 6. Accidental Release Measures**

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Spill procedures:

Use dustless methods such as a 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 of generated dusts during clean up. Wear proper protective equipment.

#### **Section 7. Handling and Storage**

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Wear proper personal protective equipment.

Avoid contact and breathing dust.

Use in adequate ventilation.  
Store in cool , dry location.

## **Section 8. Exposure controls / Personal Protection**

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Engineering controls:

Handle with adequate local exhaust ventilation for nuisance dust: see OSHA 29 CFR 1910.94 ventilation and CFR 1910.1000 (air contaminants). A source of clean water should be available to flush eyes/skin.

Respiratory protection:

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.

Skin protection:

Glove recommended.

Eye protection:

Protection recommended.

Exposure guidelines:

See section 2.

## **Section 9. Physical and Chemical properties**

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Appearance: red brown

Molecular weight: NF

Specific Gravity: 5.4

Boiling Point: N/A

Odor: Odorless

Vapor density: N/A

Evaporation rate: N/A

pH: 6.0-8.0

Vapor pressure: N/A

Freezing point: N/A

Physical state: powder

Viscosity: N/A

Melting point: N/A

Solubility in water: Insoluble

% Volatile: N/A

## **Section 10. Stability and Reactivity**

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Chemical Stability:

Stable

Incompatibility:

NF

Hazardous Decomposition Products:

Hazardous decomposition will not occur.

Hazardous Polymerization:

Hazardous polymerization will not occur.

## **Section 11. Toxicological Information**

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The ingredients in this product have not been identified as carcinogens by NTP, IARC, or OSHA.

## **Section 12. Ecological Information**

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Not found

## **Section 13. Disposal Considerations**

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Dispose in accordance with federal, state, and local regulations.

## **Section 14. Transport Information (not meant to be all inclusive)**

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DOT shipping name: Superox 100T  
Technical Shipping name: Cerium Oxide Polishing Compound  
DOT Hazard Class: N/A  
UN/NA number: N/A  
Product RQ (LBLS): N/A  
DOT label:  
DOT placard:  
Freight Class bulk:  
Freight Class package:  
Product label: HMIS **1.0.0.X** >= = Chronic X= See supervisor for PPE requirements

### **Section 15. Regulatory Information (not meant to be all inclusive)**

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OSHA Status:

Material contains very low levels of naturally occurring radioactive material (NORM) present in the rare earth raw materials.

Chronic Health Hazard under OSHA HazCom standard 1910.1200.

TSCA status : Listed in TSCA

Cercla Reportable: Yes – RQ15

Sara Title III:

Section 302 Extremely: NO

Section 311/312: Yes – Hazard categories for SARA 311/312 reporting: Chronic Health

Section 313: No – this product contain the following chemical subject to annual release

reporting reqs:

RCRA status: No

California Proposition 65:

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

Radionuclide (cancer).

### **Section 16. Other Information**

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N/A = Not applicable

NF = Not found

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but we extend no warranties, make no representations and assume no responsibility as to accuracy or suitability of this information for any purchaser's use or for any consequences of it's use.