



**P.O. Box 35 Redlands, CA 92373**

**Material Safety Data Sheet**

**Salem 22™  
Rare Earth Oxide Polishing Compound**

Revised: 2-2-10  
Prepared by: RWC  
Emergency Contact Number: 800-424-9300 Chemtrec

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**SECTION 1—Product Identification**  
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Chemical Names and Synonyms: Cerium Oxide, Rare Earth Oxide  
Chemical Family: Lanthanide Series Oxides  
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**SECTION II – Hazardous Components**  
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INGREDIENT	PERCENT	CAS No.	OSHA PEL	ACGIH TLV
Cerium Oxide	>75%	1306-38-3	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Lanthanum Oxide	<25%	1312-81-8	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY OR NON-HAZARDOUS. ALL INGREDIENTS APPEAR ON THE EPA TSCA INVENTORY. VALUES ARE NOT PRODUCT SPECIFICATIONS.

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**SECTION III – Physical Data**  
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Boiling Point:	N/A	Specific Gravity:	5.4
Vapor Pressure:	N/A	Percent Volatile:	N/A
Vapor Density:	N/A	Evaporation Rate:	N/A
Solubility in Water:	Insoluble		
Appearance and Odor:	Brown Powder, Odorless		

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#### SECTION IV – Fire and Explosion Data

Flash Point:	N/A
Explosive Limit:	No fire or explosion hazard.
Extinguishing Media:	N/A
Hazardous Decomposition Products:	None
Special Fire Fighting Equipment:	Use self-contained breathing apparatus.

#### SECTION V – Health Hazard Data

##### EFFECTS OF OVEREXPOSURE:

Breathing:	May cause upper respiratory irritation, shortness of breath, or coughing.
Eyes:	Contact with eyes may cause irritation, burning, tearing, and redness.
Skin:	Not absorbed through the skin. Dust might be mildly irritating to skin.
Swallowing:	May cause irritation of the digestive tract.

##### FIRST AID MEASURES:

Skin:	Wash affected area with soap and large amounts of water.
Eyes:	Flush with plenty of water. Consult a physician if irritation persists.
If Swallowed:	Drink large amounts of water. Get medical attention promptly.
If Breathed:	Remove victim to fresh air, apply artificial respiration if needed, and get medical attention promptly.
Note to Physicians:	Lanthanides, because of their 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 VI – Reactivity Data

Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Stability:	Stable.
Incompatibility:	None known.

#### SECTION VII – Spill or Leak Procedures

Spill should be covered with absorbent material, and swept up as soon as possible and placed in a dry container. Wash spill area with large amounts of water. Dispose of in landfill in accordance with federal, state, and local regulations.

#### SECTION VIII – Protective Equipment Recommended

Respiratory Protection:	If airborne concentrations exceed exposure limits, wear respirator in accordance with 29CFR1910.1000.
Ventilation:	Provide enough ventilation to minimize any vapor inhalation.
Protective Gloves:	Rubber gloves, if needed to avoid prolonged contact.
Eye Protection:	Safety goggles, or glasses with side shields.
Other Protective Equipment:	None.
Storage and Handling:	Store tightly closed in a cool, dry place.. -----

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**SECTION IX – Transportation Information**

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TRANSPORTATION INCIDENT INFORMATION: FOR FURTHER INFORMATION RELATIVE TO SPILLS RESULTING FROM TRANSPORTATION INCIDENTS, REFER TO LATEST DEPARTMENT OF TRANSPORTATION EMERGENCY RESPONSE GUIDEBOOK FOR HAZARDOUS MATERIALS INCIDENTS, DOT P 5800.3.

DOT IDENTIFICATION NUMBER: Not Regulated. Packing Group III.

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**SECTION X – Other Regulatory Information**

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California Proposition 65: This product contains the following substances known to the State of California to cause cancer and/or reproductive harm:  
Radionuclides (cancer)

OSHA Status: Material contains very low levels of naturally occurring radioactive Material (NORM) present in the rare earth raw materials.  
Chronic Health Hazard Hazard under OSHA HazCom Standard 1910.1200.

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The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty, or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.