MATERIAL SAFETY DATA SHEET

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 Vendor Update:
 12/31/2010

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 5/21/2013

MSDS Number: C0301; C0305; C0310; C0453;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: CERIUM OXIDE

HMIS Ratings:

Health: Slight(1)
Flammability: Minimal(0)
Instability/Reactivity: Minimal(0)

Personal Protective Equipment: X (Chronic)

NFPA Ratings:

Other: EMERGENCY OVERVIEW:

Cerium Oxide is on the EPA Toxic Substances Control Act (TSCA) Inventory.

Repeated overexposure to dust may result in irreversable lung damage.

This product is non hazardous for characteristc toxity when tested by the EPA TCLP Method.

Material is nonflammable and stable and does not contain organic additives.

This material contains low levels of naturally occuring radioactive material (NORM). If caused to dust, personal protective equipment is required. Please consult with the

ingredient limit levels.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
Rare Earth Oxide	68188-83-0	*	10mg/m³ Total**	15mg/m³ **			
Notes		-				•	
Rare Earth Flouride	68188-85-2	*	2.5mg/m³ as F	2.5mg/m³ as F			
Notes		1					l
ALUMINUM SILICATE	1332–58–7		2mg/m³ Resp	10mg/m³ Total***			
Notes		•	•	•		•	•
Other:	*Combined Rare Earth Oxide and Rare Earth Fluoride levels are greater than 75%. Respirable Levels ACGIH ILV = ** 3mg/m³; OSHA PEL =***5mg/m³.						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: Dusts may be abrasive and irritating to the eyes and cause stinging, watering, and redness.

Avoid contact with eyes. Wash thoroughly after handling.

Skin: Not absorbed through skin. Dusts may be abrasive and mildly irritating to the skin. No

harmful effects from skin absorption are expected.

Ingestion: (Swallowing): All accidental ingestion of dust or slurry may cause irritation of the digestive

tract.

Inhalation: (Breathing): Breathing dust may result in irritation of the nose and throat, coughing,

shortness of breath and bronchitis.

Medical Conditions

Aggravated by Exposure:

IV. FIRST AID MEASURES

Eyes: Rinse opened eye for extended period of time under running water. Avoid rubbing. Seek

medical attention.

Skin: Immediately wash with water and soap and rinse thoroughly.

Ingestion: Seek medical assistance. Drink large amount of water if patient is conscious.

Inhalation: Remove to fresh air; if required, provide artificial respiration.

Other: NOTE TO PHYSICIAN: Lanthanides can produce abnormalities on chest x-ray due to their

high density. However, the lesions usually have little or no clinical significance.

V. FIRE FIGHTING MEASURES

Flash Point: NOT APPLICABLE

Test Method: NOT APPLICABLE

Lower Flammability Limit: NOT APPLICABLE

Upper Flammability Limit: NOT APPLICABLE

Extinguishing Agents: NOT APPLICABLE

Unusual Fire or Explosion None

Hazards:

Fire Fighting Procedures: Use fire fighting measures that suit the surrounding fire. Wear self-contained respirator.

Other: Product is not flammable.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: Spill Procedures: Wear proper protective equipment. Keep unprotected persons away. Ensure

adequate ventilation. Use dustless methods (e.g. vacuum) to collect spilled material and place it into closable container for disposal. Do not dry sweep. Flush spilled material into proper

retaining areas or containers with water to avoid airborne particles.

VII. HANDLING AND STORAGE

Other: Keep container tightly sealed. Store in cool, dry place.

Always wear proper protective equipment.

Work in a well ventilated area.

Avoid contact and breating dust. Maintain and use NIOSH approved respirator.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin: Gloves recommended.

Respiratory: Use NIOSH approved respiratory protection. In order to limit exposure to NORM, product

workers should wear appropriate NIOSH approved dust respirator when conditions are dusty. Refer to the latest standards of ANSI (Z88.2) OSHA 29CRF, and NIOSH respirator logic.

Engineering: Handle with adequate ventilation for dust: see OSHA CFR 1910.94 Ventilation and CFR

1910.1000 (air contaminants) normal clean-up procedures. A source of clean water should

be available to flush eyes/skin.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Red

Boiling Point: NOT AVAILABLE **Freezing Point:** NOT AVAILABLE

pH: 6.5-7.5Solubility in Water: Insoluble Specific Gravity: 4.5-6.5

Vapor Pressure:NOT AVAILABLEVapor Density:NOT AVAILABLE

Physical State: Powder

Volatile Content: NOT AVAILABLE

X. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Will not occur.

Products:

Incompatible Products: Not Found

XI. TOXICOLOGICAL INFORMATION

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

OSHA.

XII. ECOLOGICAL INFORMATION

Ecotoxicity:

Other: Not found. This product is not expected to present an environmental hazard.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose inaccordance with federal, state, and local regulations.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: Not a DOT Hazardous Material

D.O.T. Hazard Class: NA

Other: LAND TRANSPORT

ADR/RID Class: NA IMDG Class: NA

Air Transport ICAO/IATA Class: NA

XV. REGULATORY INFORMATION

TSCA Status: All components of this product are listed in TSCA.

EPA Sara Title III Chemical Section 302 Extremely: No

Listings: Section 311/312: Yes – Hazard categories for SARA 311/312 reporting: CHRONIC

HEALTH

Section 313 Toxic: Cerium Oxide is not a toxic chemical.

OSHA States: Material contains low levels of natural occurring radiactive material (NORM)

Supplemental State present in the rare earth materials. Chronic Health Hazard under OSHA HazCon Standard

Compliance Information: 1901.1200.

California: Prop 65:

This product contains the following substances known to the state of California to cause

cancer and/or reproductive harm: Radionuclides (cancer)

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER

THEY ARE APPROPRIATE.