

# SAFETY DATA SHEET

1<sup>ST</sup> NOVEMBER 2016 □ DKH S23 –  
Issue B

## PRODUCER

Company Name CRL  
Vendor Update 22/02/2012  
Date Prepared 20/07/2015  
MSDS Number C0301 ; C0305 ; C0310 ; C0453

## CHEMICAL PRODUCT IDENTIFICATION

Product Name Cerium Oxide Polishing Compound  
HMIS Ratings Health: Slight (1)  
Flammability: Minimal (0)  
Instability/Reactivity: Minimal (0)  
Personal Protective Equipment: X

## HFPA Ratings

### Other EMERGENCY OVERVIEW

Cerium Oxide is on the EPA Toxic Substances Control Act (TSCA) inventory, repeated overexposure to dust may result in irreversible lung damage. This product is non-hazardous for characteristic toxicity when tested by the EPA. TCLP method. Material is non-flammable and stable and does not contain any organic additives. This material contains low levels of naturally occurring radioactive material (norm). If caused to dust, personal protective equipment is required. Please consult above ingredient limit levels.

## COMPOSITION, INFORMATION ON INGREDIENTS

<b>Chemical Ingredients</b>	<b>C.A.S Number</b>	<b>% by Weight</b>	<b>ACGIH TLV TWA / STEL</b>	<b>OSHA PEL TWA / STEL</b>	<b>Other TWA / STEL</b>	<b>LD50</b>	<b>LC50</b>
Rare earth oxide*	68188-83-0	•	10 MG/M <sup>3</sup> total; 3 MG/M <sup>3</sup> respirable levels	15 MG/M <sup>3</sup> ; 5 MG/M <sup>3</sup> respirable levels			
Notes	* Combined rare earth oxide and rare earth fluoride levels are greater than 75%						
Rare earth fluoride	68188-85-2	•	2.5 MG/M <sup>3</sup> AS F	2.5 F/M <sup>3</sup> AS F			
Notes	* Combined rare earth oxide and rare earth fluoride levels are greater than 75%						
Aluminium Silicate	1332-58-7	< 25	2 MG/M <sup>3</sup> RESP	10 MG/M <sup>3</sup> total; 5 MG/M <sup>3</sup> respirable levels			

## 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.

## 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 amounts of water if patient is conscious
Inhalation	Move 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

## FIRE FIGHTING MEASURES

Flash Point	N/A
Test Method	N/A
Lower Flammability Limit	N/A
Upper Flammability Limit	N/A
Extinguishing Agents	N/A
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

## 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.
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## HANDLING & STORAGE

Other	Keep container tightly sealed. Store in a cool, dry place. Always wear proper protective equipment. Work in well-vented area. Avoid contact and breathing dust. Maintain and use NIOSH approved respirator.
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## EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin	Gloves recommended
Respiratory	Use NIOSH approved respiratory protection. In order to limit exposure to NORM,



chronic health.

SARA title III: Section 313 toxic: cerium oxide is not a toxic chemical.

California

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

Other

Comprehensive environment response compensation and liability act (CERCLA): cerium oxide is not classified as a hazardous substance under CERCLA regulations; 40 CFR 302.

#### 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.