



# MATERIAL SAFETY DATA SHEET

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**Emergency telephone number**  
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CHEMTREC (outside U.S.): 1-703-527-3887  
Phone Number: 1-315-536-3357

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** 416 SUPER CE-RITE® 20 KG PAIL **Date of Preparation:** 06/07/2010  
**Synonym:** Rare Earth Polishing Compound.  
**CAS-No.:** Mixture  
**Product Code:** 1318253

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Caution

Product dust may be irritating to eyes, skin and respiratory system. Avoid dust formation.

		<b>HMIS</b>	<b>NFPA 704</b>
<b>Color:</b>	Reddish brown	1*	1
<b>Physical state:</b>	Powder	0	0
<b>Odor:</b>	Odorless	0	0
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### Potential Health Effects

**Principle routes of exposure:** Inhalation. Ingestion.

**Eye contact:** May cause irritation.

**Skin contact:** Prolonged skin contact may cause skin irritation and/or dermatitis.

**Inhalation:** Dust irritating to respiratory tract.

**Ingestion:** May irritate digestive tract.

**Chronic toxicity:** Repeated or prolonged exposure to the substance can produce lung damage.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Rare Earth Oxide		60 - 70%
Rare Earth Fluoride		30 - 40%

Rare Earth Oxide is a mixture of Cerium Oxide (1306-38-3), Lanthanum Oxide (1312-81-8), Praseodymium Oxide (12037-29-5), and Neodymium Oxide (1313-97-9). Rare Earth Fluoride is a mixture of Cerium Fluoride (7758-88-5) and Lanthanum Fluoride (13709-38-1). This material contains very low levels of Naturally Occurring Radioactive Material (NORM).

## 4. FIRST AID MEASURES

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.

**Skin contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.

**Ingestion:** Drink plenty of water. Do not induce vomiting without medical advice. Consult a physician.

**Notes to physician:** Treat symptomatically. 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.

**5. FIRE-FIGHTING MEASURES**

**Flash point (°C):** Non combustible

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Hazardous decomposition products:** None reasonably foreseeable.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.

**Unusual hazards:** None known.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Clean up promptly by scoop or vacuum. Wear personal protective equipment. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. Wash hands thoroughly before eating, drinking or smoking.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limits**  
Minimize exposure in accordance with good hygiene practice

Components	OSHA	ACGIH
Rare Earth Oxide	15 mg/m <sup>3</sup> Total; 5 mg/m <sup>3</sup> Respirable	10 mg/m <sup>3</sup> Total; 3 mg/m <sup>3</sup> Respirable
Rare Earth Fluoride	2.5 mg/m <sup>3</sup> TWA F	2.5 mg/m <sup>3</sup> TWA F

**Engineering measures:** Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated.

**Eye protection:** Safety glasses with side-shields.

**Skin and body protection:** Lightweight protective clothing.

**Hand protection:** Impervious gloves.

**Respiratory protection:** Use NIOSH approved respirator when ventilation is inadequate. Wear NIOSH approved respirator to limit exposure to NORM.

**Hygiene measures:** Wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Reddish brown	<b>Physical state:</b>	Powder
<b>Odor:</b>	Odorless	<b>Molecular weight:</b>	No data available
<b>Boiling point/range (°C):</b>	No data available	<b>pH:</b>	No data available
<b>Melting point/range (°C):</b>	> 2300	<b>Specific gravity (Water =1):</b>	5.400
<b>Vapor pressure (mmHg):</b>	No data available	<b>Water solubility:</b>	Insoluble
<b>VOC content (%):</b>	0.00 %		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Polymerization:** Will not occur.

**Hazardous decomposition products:** None under normal use.

**Materials to avoid:** Strong acids.

**Conditions to avoid:** None known.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Information given is based on data on the components and the toxicology of similar products.

**Carcinogenic Effects:** Not listed by IARC, NTP or OSHA as a carcinogen.

**Component information, if any, is listed below**

### Rare Earth Oxide

**LD50s and LC50s:** Oral LD50 (Rat) = 5 g/kg

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** Information given is based on data on the components and the ecotoxicology of similar products.

**Persistence and degradability:** Not determined

## 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. This product contains Naturally Occurring Radioactive Materials (NORM). Consult and comply with current regulations.

## 14. TRANSPORT INFORMATION

### DOT (U.S.)

**Proper shipping name:** Not regulated.

### TDG (Canada)

**Proper shipping name:** Not regulated.

## 14. TRANSPORT INFORMATION

## 15. REGULATORY INFORMATION

### U.S. Regulations:

**TSCA:** Not subject to TSCA 12(b) Export Notification

**SARA 313:** Not subject to the provisions of SARA 313 Title III

### State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Components	State Regulations - NJ; PA
Rare Earth Fluoride	Listed (NJRTK)

### Canadian WHMIS

**WHMIS hazard class:** Non-controlled

**Canadian Ingredient Disclosure List (IDL): Not Listed.**

### International Inventories

**TSCA 8(b):** Listed or exempt.  
**Canadian DSL:** One or more ingredient(s) are not on the DSL list.  
**EC-No.** Listed or exempt.  
**Philippines (PICCS):** Listed.  
**Japan (ENCS):** One or more ingredient(s) are not on the ENCS list.  
**Korea (KECL):** Listed.  
**China (IECS):** Listed.  
**Australia (AICS):** One or more ingredient(s) are not on the AICS list.  
**New Zealand (NZIoC):** One or more ingredient(s) are not on the NZIoC list.

## 16. OTHER INFORMATION

### **For Industrial Use Only**

**Prepared by:** Ferro Technical Center

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.

**End of Safety Data Sheet**