



# MATERIAL SAFETY DATA SHEET

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Electronic Material System  
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**Emergency telephone number**  
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** 416 Super Ce-Rite® 20 Kg Pail  
**Synonyms:** Rare Earth Polishing Compound.  
**CAS-No.:** Mixture  
**Product code:** 1318253

Date of Preparation: 06/10/2005

## 2. HAZARD IDENTIFICATION

### Emergency Overview

Caution

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

**NFPA 704**

<b>Colour:</b>	Red brown	<b>Health:</b>	1
<b>Physical state:</b>	Powder	<b>Fire:</b>	0
<b>Odour:</b>	Odorless	<b>Instability:</b>	0

### 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. If not breathing, give artificial respiration. 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:** 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:**

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> as F	2.5 mg/m <sup>3</sup> as 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.

**Hygiene measures:** Wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Colour:</b>	Red brown	<b>Physical state:</b>	Powder
<b>Odour:</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>Evaporation rate (Water =1):</b>	No data available

**Water solubility (mg/l):** Insoluble

**VOC content (%)** 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:** No data is available on the product itself

**Carcinogenic effects:**

Not listed by IARC, NTP or OSHA as a carcinogen.

**Rare Earth Oxide**

**NIOSH - LD50s and LC50s:** > 5 g/kg Oral LD50 Rat

## 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 Occuring Radioactive Materials (NORM). Consult and comply with current regulations.

## 12. ECOLOGICAL INFORMATION

No data is available on the product itself.

**Aquatic toxicity:** Not determined

**Persistence and degradability:** Not determined

## 14. TRANSPORT INFORMATION

**DOT**

**Proper shipping name:** Not regulated.

**TDG (Canada)**

**Proper shipping name:** Not regulated.

## 15. REGULATORY INFORMATION

**U.S. Regulations:**

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

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

**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.

<b>Components</b>	<b>NJRTK:</b>	<b>PARTK:</b>	<b>Cal Prop65:</b>
Rare Earth Oxide	N/A	N/A	Radionuclides
Rare Earth Fluoride	N/A	N/A	Radionuclides

**Canadian WHMIS**

WHMIS hazard class: D2B Toxic materials.

**Components**

Rare Earth Fluoride

**WHMIS Ingredient Disclosure:**

1%

**International Inventories**

TSCA 8(b): Listed or exempt.  
 Canadian DSL: Listed or exempt.  
 EINECS: Listed or exempt.  
 Phillipines (PICCS): Listed.  
 Japan (ENCS): Listed.  
 Korea (KECL): Listed.  
 China (IECS): Listed.  
 Australia (AICS): Listed.

**16. OTHER INFORMATION**

**For Industrial Use Only**

**HMIS**

**Health:** \*1

**Fire:** 0

**Physical hazard:** 0

**PPE:** X

**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**

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