



# MATERIAL SAFETY DATA SHEET

Ferro Corporation  
Electronic Material System  
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**Emergency telephone number**  
CHEMTREC: 1-800-424-9300

Phone Number: 1-315-531-8520

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

**Product Name:** Ce-Rite® Great White 5005  
**Synonyms:** Rare Earth Polishing Compound.  
**CAS-No.:** Mixture

Date of Preparation: 10/03/06

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Exposure limits

Components	CAS-No	Weight %	OSHA	ACGIH
Rare Earth Oxide	68188-83-0	80 - 90%	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
Kaolin	1332-58-7	10 - 20%	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable)	2 mg/m <sup>3</sup> TWA (respirable fraction)
Fluoride compound		1 - 5%	2.5 mg/m <sup>3</sup> as F	2.5 mg/m <sup>3</sup> as F

This material contains very low levels of Naturally Occurring Radioactive Material (NORM).

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Caution

### NFPA 704

<b>Color:</b>	Buff	<b>Health:</b>	1
<b>Physical state:</b>	Powder	<b>Fire:</b>	0
<b>Odour:</b>	Odorless	<b>Instability:</b>	0

Avoid dust formation. May cause physical irritation. This material contains very low levels of Naturally Occurring Radioactive Material (NORM).

### Potential Health Effects

**Principle routes of exposure:** Inhalation, ingestion, skin and eye contact.

**Eye contact:** May cause slight irritation. Resin particles, like other inert materials, are mechanically irritating to eyes.

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

**Inhalation:** Product dust may be irritating to eyes, skin and respiratory system. Over-exposure by inhalation may cause respiratory irritation.

**Ingestion:** May irritate digestive tract.

**Chronic toxicity:** No known effects under normal conditions of use. Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

### HMIS

**Health:** \*1

**Fire:** 0

**Physical hazard:** 0

**PPE:** E

#### 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. If symptoms persist, call a physician.

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

**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:** No data available

**Suitable extinguishing media:** The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.

**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:** Dust may form explosive mixture in air.

#### 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:** Use approved industrial vacuum cleaner for removal. Wear personal protective equipment. Dispose of promptly.

#### 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. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Remove all sources of ignition. Take precautionary measures against static discharges.

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

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

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

**Hand protection:** Impervious gloves.

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

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

**Exposure limits:** See Section 2.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Buff	<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
<b>Water solubility (mg/l):</b>	Insoluble	<b>VOC content (%)</b>	No data available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**polymerization:** Will not occur.

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

**Materials to avoid:** None known.

**Conditions to avoid:** None known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### 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

### Kaolin

*ACGIH - Carcinogens:* A4 - Not Classifiable as a Human Carcinogen

## 12. ECOLOGICAL INFORMATION

No data is available on the product itself.

**Persistence and degradability:** No information available

## 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.

## 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**

**OSHA Citations** - This product contains very low levels of Naturally Occurring Radioactive Material (NORM) present in the rare earth raw materials

### **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.

#### Rare Earth Oxide (80 - 90%)

**Cal Prop65:** Radionuclides

#### Kaolin (10 - 20%)

**PARTK:** Listed

#### Fluoride compounds (1 - 5%)

**Cal Prop65:** Radionuclides

### **Canadian WHMIS**

WHMIS hazard class: D2A Very toxic materials.

### **International Inventories**

TSCA 8(b): All the ingredients are on the TSCA list.

Canadian DSL: One or more ingredient(s) are not on the DSL list.

EINECS: All the ingredients are on the EINECS list.

Phillipines (PICCS): Not listed.

Japan (ENCS): Not listed.

Korea (KECL): Listed.

China (IECS): Listed.

Australia (AICS): Not listed.

#### Rare Earth Oxide

Canadian NDSL: Listed

## **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**