



Cerite 5005

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1 – Identification of the substance

Product Name:	CERITE 5005
Synonym:	Rare Earth Polishing Compound
CAS-No:	Mixture
Recommended use:	Industrial Use Only
Product Code:	6900010

2 – Hazards Identification

Emergency overview

Caution

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

		<u>HMIS</u>	<u>NFPA 704</u>
Color:	White	1*	1
Physical state:	Powder	0	0
Odor:	Odorless	0	
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Potential Health Effects

- **Principle routes of exposure:** Inhalation, ingestion, skin and eye contact.
- **Eyes contact :**
Contact with eyes may cause irritation with discomfort, tearing or blurring of vision.
- **Skin contact:**
Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
- **Inhalation:**
May cause irritation of respiratory tract.
- **Ingestion :**
May irritate digestive tract.
- **Chronic effects / Carcinogenicity :**
Repeated or prolonged exposure to the substance can produce lung damage.

3 – Composition / Information on ingredients

Components	CAS Number	EG-Nr.
Cerium Oxide	1306-38-3	269-164-0
Lanthanum Oxide	1312-81-8	269-166-1
Kaolin	1332-58-7	
Rare Earth Fluoride	68188-85-2	

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 Radioactive Material (NORM).
(EG) n° 1907/2006 (REACH) - CLP n° 1272/2008 : -

4 – First Aid Measures

Eye contact:

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

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion:

Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

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:

Wear personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. 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. 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
Kaolin	15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction	2 mg/m ³ TWA particulate matter containing no asbestos and <1% crystalline silica, respirable fraction
Rare Earth Fluoride	2.5 mg/m ³ TWA F	2.5 mg/m ³ 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

Color	White	Physical state	Powder
Odor	Odorless	Molecular weight	No data available
Boiling point/range (°C)	No data available	pH	No data available
Melting point/range (°C)	>2300	Specific gravity (Water=1)	5.400
Vapor pressure	No data available	Water solubility	Slightly
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:

Information given is based on data on the components and the toxicology of similar products.

Target Organ Effects:

Aluminum silicate (Kaolin): Respiratory system.

Component information, if any, is listed below

Cerium oxide

LD50s and LC50s: Oral LD50 (Rat) = 1000 mg/kg
Inhalation LC50 (Rat) = 2.01 mg/L
Dermal LD50 (Rat) = 2000 mg/kg

Lanthanum oxide

LD50s and LC50s: Oral LD50 (Rat) = 8500 mg/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 environment 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.

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	NJRTK:
Kaolin	Listed (NJRTK)

Components	State Regulation – CA Prop65
Rare Earth Fluoride	Radionuclides

Canadian WHMIS

WHMIS hazard class: D2A Very toxic materials

International Inventories

TSCA 8 (b):	Listed or exempt.
Canadian DSL/NDSL List:	All ingredient(s) are listed on the DSL or NDSL
EC-No.:	Listed or exempt
Philippines (PICCS):	One or more ingredient(s) are not on the PICCS list.
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

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.