2021

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MSDS | Cerium Oxide

MATERIAL SAFETY DATA SHEET

CERIUM OXIDE – GLASS POLISHING SOLUTION

Non-Hazardous Chemical, NON-Dangerous Goods

ISSUE DATE | 11.06.2015

REVISION DATE | 18.10.2021

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CERIUM OXIDE POLISHING SOLUTION
PRODUCT CODE: 90001 to 90012
MANUFACTURER: Glass Polish Ltd
DIVISION: Abrasive System Division
ADDRESS: Glass Polish House
Ratoath Road
Hollystown, D15 E2FP
Ireland

EMERGENCY PHONE: 00353 1809 7733 0044 800324 7937

MSDS CODE: CHE13-MAE010258M

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Aluminum Oxide	1344-28-1	12%
Cerium Oxide (CeO2)	1345-13-7	65%
Iron Oxide	1332-37-2	13%
Silicon monoxxide	10097-28-6	10%

SECTION 3: HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of HSA.

DANGEROUS GOOD CLASSIFICATION
Not classified as Dangerous Goods by the criteria of the RSA for the Transport of Dangerous Goods by Road, Rail & Air and the Transport of Dangerous Goods on Land.

Labeling according to Regulation (EC) No 1272/2008

Pictogram: **Signal word: Warning**
Hazzard Statements: H319 Causes eye irritation
H315 Causes skin irritation

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Dispersion
Odor, Color, Grade: Tan or white powder, no odor
General Physical Form: powder
Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

- **Eye Contact:**
  Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

- Skin Contact:
  Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

- Inhalation:

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

- Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations assume that appropriate personal and industrial hygiene practices are followed.

- Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.
- Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.
- Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.
- If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURE

5.1 FLAMMABLE PROPERTIES

- Autoignition temperature *Not Applicable*
  Flash Point *Not Applicable*
  Flammable Limits (LEL) *Not Applicable*
  Flammable Limits (UEL) *Not Applicable*

5.2 EXTINGUISHING MEDIA

- Material will not burn.

5.3 PROTECTION OF FIRE FIGHTERS

- Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).
  Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue
containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Clean-up methods

Observe precautions from other sections. Call Glass Polish - HELPS line (00353 18097733) for more information on handling and managing the spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in enough absorbent until it appears dry. Collect as much of the spilled material as possible.
Clean up residue with detergent and water.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. For industrial or professional use only.

7.2 STORAGE

Store under normal warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.
The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for particulates.
For questions about suitability for a specific application, consult with your respirator manufacturer.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Dispersion
Odor, Color, Grade:	Tan liquid, no odor
General Physical Form:	powder
Autoignition temperature	*Not Applicable*
Flash Point	*Not Applicable*
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Boiling Point	212 ºF / 100°C
Vapor Density	*No Data Available*
Vapor Pressure	17.5 mmHg [@ 68 ºF]
Specific Gravity	2.4 - 2.5 [*Ref Std:* WATER=1]
pH	6 – 9
Melting point	*Not Applicable*
Solubility in Water	Moderate
Evaporation rate	*No Data Available*
Kow - Oct/Water partition coef	*No Data Available*
Viscosity	*No Data Available*

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
None known.	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

- Mild Eye Irritation: Signs/symptoms may include redness, pain and tearing.

11.2 Effects from Skin Contact:

- Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

11.3 Effects from Inhalation:

- No health effects are expected.

11.4 Effects from Ingestion:

- Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

- Not determined.

CHEMICAL FATE INFORMATION

- Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal Method:** Dispose of waste product in a facility permitted to accept chemical waste. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.
- **EPA Hazardous Waste Number (RCRA):** Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

Not a hazardous material for transportation.
DOT regulations:
Hazard class: None
Land transport ADR/RID (cross-border)

ADR/RID class: None
Maritime transport IMDG:
IMDG Class: None
Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: None
Transport/Additional information:
Not dangerous according to the above specification.

SECTION 15: REGULATORY INFORMATION

Label Version Number: 01.00
Symbol(s): None.
Risk Phrases: None.
Safety Phrases:

- S24/25 Avoid contact with the skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28A After contact with skin, wash immediately with plenty of soap and water.

Disclosable Ingredients: No ingredients required on the label.

Product Certifications: EINECS.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 **Flammability:** 0 **Reactivity:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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