

Section 1: Identification

PRODUCT IDENTIFIER: Cerium Oxide powder

CHEMICAL FAMILY: Abrasive

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night
Customer No. 16568

MANUFACTURER: PACE Technologies
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Section 2: Hazard(s) Identification

GHS CLASIFICATION:	Not a hazardous substance or mixture
PICTOGRAM(s):	N/A
SIGNAL WORD:	N/A
HAZARD STATEMENTS:	N/A
PRECAUTIONARY STATEMENTS:	P261-Avoid breathing dust. P280: Wear protective gloves and eye protection. P285: In case of inadequate ventilation, wear respiratory protection. P501- Dispose of contents/container to Federal, State and Local Regulations

Section 3: Composition/Information on Ingredients

CHEMICAL	APPROX %	CAS Number
Cerium Oxide	>99	1306-38-3

Section 4: First-Aid Measures

EYES: Rinse thoroughly with water for at least 15 minutes. Remove contact lenses if present. Get medical help if irritation continues.

SKIN: Wash with soap and water. Seek medical attention if irritation develops.

INHALATION: Move person to fresh air. If symptoms persist, seek medical attention.

INGESTION: Rinse mouth. If large amounts are swallowed or symptoms occur, seek medical advice.

Section 5: Fire-Fighting Measures

FLASH POINT (TEST METHODS): Not applicable

FLAMMABILITY LIMITS IN AIR, % BY VOLUME: LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable. Use NIOSH/MSHA approved SCBA and full protective equipment

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid dust formation. Use appropriate PPE.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage. Avoid discharge into drains.

CLEANUP METHODS: Sweep or vacuum up using equipment fitted with a HEPA filter. Avoid creating dust.

Section 7: Handling and Storage

HANDLING: Avoid breathing dust, mists, or spray. Use local exhaust

ventilation if necessary. Wear appropriate protective equipment.

STORAGE:

Store in a cool, dry, well-ventilated area. Keep container tightly closed. Protect from drying out to avoid dust formation.

Section 8: Exposure Controls/ Personal Protection

OCCUPATIONAL EXPOSURE LIMITS: No specific OSHA PEL or ACGIH TLV for cerium oxide. Use general nuisance dust limits:

- Total dust: 15 mg/m³ (OSHA PEL)
- Respirable dust: 5 mg/m³ (OSHA PEL)

ENGINEERING CONTROLS:

Use local exhaust ventilation to minimize dust.

PPE:

- Respiratory: NIOSH-approved particulate respirator if airborne dust is present.
- Eyes: Safety goggles or face shield.
- Skin: Protective gloves and long-sleeved clothing.
- Hygiene: Wash hands before breaks and after handling.

Section 9: Physical and Chemical Properties

APPEARANCE:	Pale yellow-white powder
MELTING POINT:	~2400 °C
BOILING POINT:	N.A.
SPECIFIC GRAVITY (H₂O = 1)	~7.1 g/cm ³

ODOR:	Odorless
pH:	N/A
SOLUBILITY IN WATER (% BY VOLUME)	Insoluble in water
FLASH POINT:	N/A
AUTO-IGNITION TEMPERATURE	Not flammable

Section 10: Stability and Reactivity

STABILITY: Stable under normal conditions

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: None known

Section 11: Toxicological Information

ROUTES OF EXPOSURE: Inhalation, eye and skin contact

ACUTE EFFECTS: May cause mechanical irritation

CHRONIC EFFECTS: No known chronic toxicity

CARCINOGENICITY: Not classified as carcinogenic (IARC, NTP, OSHA)

Section 12: Ecological Information

MOBILITY IN SOIL:	Limited due to insolubility
PERSISTENCE/ DEGRADABILITY:	Inorganic material, not biodegradable
BIACCUMULATION:	Low
ECO-TOXICITY:	Not expected to be hazardous to the environment

Section 13: Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations.
 - **Do not** release to the environment or waterways.
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Section 14: Transportation Information

DOT (CFR49):	NOT REGULATED.
IATA (air):	NOT REGULATED.
IMDG (ocean):	NOT REGULATED.
HAZARD CLASSIFICATION:	NON-HAZARDOUS.
PACKING GROUP:	NOT REGULATED.
UN/NA CODE:	NOT REGULATED.

Section 15: Regulatory Information

TSCA: Listed

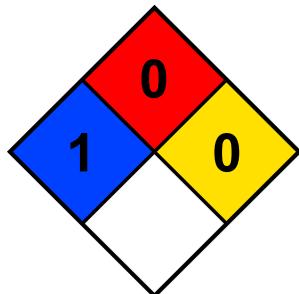
SARA Title III: Not listed

CALRONIA
PROPOSITION 65: Not listed

OSHA: Not classified as hazardous

Section 16: Other Information

16.1 NFPA 704



Top, Flammability: 0 – Minimal Hazard

Left, Health Hazard: 1 – Slight Hazard

Right, Reactivity: 0 – Minimal Hazard

Bottom, Special Notice: N/A

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