

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Cerium chips
CAS #: 7440-45-1
FORMULA: Ce
SYNONYM: Rare earth metal

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-45-1	100	no data	no data
mineral oil	8042-47-5		no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Inhalation, if converted to oil free fine dust or fume. Mineral oil may be harmful if swallowed, an irritant, an, possible tumorigen.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation of any dust.

EYE CONTACT: Oil, and dust, if present, may cause slight to mild irritation of the eyes.

SKIN CONTACT: Dust, if present, may cause slight to mild irritation of the skin.

INHALATION: Inhalation of any oil free fine dust may be irritating to the nasal cavity, mucous membranes and respiratory tract.

INGESTION: No specific information is available on the physiological effects of ingestion. Mineral oil may be harmful.

CHRONIC HEALTH EFFECTS: No information available on long-term chronic effects. Impurities in some mineral oils may be tumorigens.

ACUTE HEALTH EFFECTS: Oil free dust, if present, may be irritating to skin, eyes and respiratory tract.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: Class D metal fire agent, dry salt or sand.

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire, burning metal may produce mildly irritating fumes of Cerium oxide or carbonate.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Evolves flammable hydrogen with water.

Flammable solid. Burns with intense heat. Dust may form explosive mixtures with air.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, sweep up the mixture and place in a closed container. Do not mix with water or other incompatible materials.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container under mineral oil.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: (packed in mineral oil.)

MOLECULAR WEIGHT: 140.13

MELTING POINT (DEG. C.): no data

BOILING POINT: 3257°

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 6.9

SOLUBILITY IN WATER: reacts with water

SECTION 10 Stability and Reactivity

STABILITY: air sensitive, moisture sensitive

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: Contact with water or of any oil free fine dust with air.
INCOMPATIBILITY: Water, alcohols, oxidizers, oxygen, carbon dioxide, halogens, halocarbons, acids.
DECOMPOSITION PRODUCTS: Flammable hydrogen gas on contact with water. Carbon dioxide, carbon monoxide, organic fumes.

SECTION 11 Toxicological Information

RTECS DATA: No specific information available on this product.
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: Mineral oil: Possible Tumorigen

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Cerium, Class 4.3, UN 3078, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound not listed.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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