

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Ytterbium powder
CAS #: 7440-64-4
FORMULA: Yb

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-64-4	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: May cause slight to mild irritation to the eyes, skin and respiratory tract.
PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation
EYE CONTACT: May cause slight to mild irritation of the eyes
SKIN CONTACT: May cause slight to mild irritation of the eyes
INHALATION: Inhalation of fine dust may be irritating to the nasal cavity, mucous membranes and respiratory tract.
INGESTION: No specific information on the physiological effects of ingestion
CHRONIC HEALTH EFFECTS: No information available on long term chronic effects.
ACUTE HEALTH EFFECTS: Dust may be irritating to 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: Dry chemical or Class D metal fire agent

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 Ytterbium oxide or carbonate.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Flammable solid. Burns with intense heat. Dust may form explosive mixtures with air. Evolves hydrogen with hot water.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, the fine powder should be covered with sodium carbonate or dolomite in order to reduce the formation of dust. Sweep up the mixture.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in a cool dry place under argon. Handle in Argon.

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: -40 mesh

MOLECULAR WEIGHT: 173.04

MELTING POINT (DEG. C.): no data

BOILING POINT: 1427°

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 6.97

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air sensitive, moisture sensitive