

MATERIAL SAFETY DATA SHEET

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

Manufacturer: ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

Phone: (815) 398-1788
Fax: (815) 398-1810
E-Mail: Prochem1@aol.com

SECTION 1 Product Identification

CHEMICAL NAME: Zinc powder
CAS #: 7440-66-6
FORMULA: Zn
SYNONYM: none

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-66-6	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract. Inhalation of zinc dust may produce metal fume fever or zinc shakes consisting of chills, fever, muscular pain, nausea, and vomiting.

PRIMARY ROUTES OF EXPOSURE: Inhalation and ingestion

EYE CONTACT: Causes slight to mild irritation of the eyes.

SKIN CONTACT: Causes slight to mild irritation of the skin.

INHALATION: Irritating to the nose, mucous membranes and respiratory tract, causing metallic taste, dry throat and chills

INGESTION: Zinc gives a harsh metallic taste and may cause nausea and vomiting

CHRONIC HEALTH EFFECTS: No serious long-term chronic effects reported. Prolonged inhalation may cause laryngitis. Prolonged ingestion may cause constipation.

ACUTE HEALTH EFFECTS: irritating to skin, eyes and respiratory tract. Inhalation of zinc dust may cause chills and nausea.

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 moderately irritating fumes of zinc oxide.

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

SECTION 6 Accidental Release Measures

SPILL AND LEAD PROCEDURES: In the case of a spill, weep 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 in a cool dry place

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: -325 mesh

MOLECULAR WEIGHT: 65.38

MELTING POINT (DEG. C.): no data

BOILING POINT: 907^o

VAPOR PRESSURE: 1mm(487^oC)

SPECIFIC GRAVITY: 7.14

SOLUBILITY IN WATER: reacts with water

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Do not allow powder to contact water or form a cloud of dust in air. Practice good housekeeping.

INCOMPATIBILITY: Mineral acids, halogens, oxidizers, sulfur, phosphorus, halogenated hydrocarbons, strong bases and ammonium nitrate.

DECOMPOSITION PRODUCTS: Flammable hydrogen with moisture.

SECTION 11 Toxicological Information

RTECS DATA: Administration onto the skin (human); Standard Draize test: 300 ug/3D (Intermittent). Inhalation (human); TCLo: 124 mg/m³/50M.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

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

Zinc powder or zinc dust, Class 4.3 (4.2), UN 1436, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound listed (as fume or dust)

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.

DATE PREPARED: July 2006