

MATERIAL SAFETY DATA SHEET

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SECTION 1 Product Identification

CHEMICAL NAME: LEAD TUNGSTEN OXIDE
PRODUCT NO: 2307
CAS REGISTRY NUMBER: 7759-01-5
FORMULA: PbWO₄
SYNONYM: LEAD TUNGSTATE, LEAD WOLFRAMATE

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7759-01-5	100	0.15 mg/m ³	0.05mg/m ³

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Danger ! Toxic by ingestion, inhalation, skin absorption. May cause irritation to skin, eyes, respiratory system. Cumulative poison. Can aggravate pre-existing lung and circulatory conditions.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin absorption.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation, itching, burning.

INHALATION: TOXIC. May cause irritation to upper respiratory system.

INGESTION: TOXIC. Harmful if swallowed.

ACUTE EFFECTS: Can cause irritation to upper respiratory system, insomnia, dryness of mouth and a metallic taste. Ingestion may cause constipation and abdominal pain, colic, tremors, nausea, vomiting, diarrhea, metallic taste, loss of appetite, irritability and muscle pain. May cause acute lead toxicity. Skin and eyes may cause irritation.

CHRONIC EFFECTS: May cause chronic lead toxicity. May be toxic to the central and peripheral nervous system affecting the cerebellum, spinal cord, motor and sensory nerves. Ingestion may cause anemia, gingival lead line, paralysis in the wrist and permanent neurological injury; may cause chronic lead toxicity. May cause nephritis, scarring and shrinking of the kidney tissue. Large overdoses may cause nervous system disturbances and diarrhea.

No chronic health effects recorded for skin and eye contact.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for several minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get medical attention.

SKIN EXPOSURE: Wash affected area with soap and copious amounts of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

INHALATION: Remove 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: Provided person is conscious, Give 1-2 glasses of milk or water; induce vomiting. Seek medical assistance immediately.

SECTION 5 Firefighting Measures

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Material is not combustible. Use media suitable for other materials in area.

SPECIAL FIREFIGHTING PROCEDURES: If this product is 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: Emits toxic fumes of lead oxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: No Data

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, keep unprotected persons away, wear adequate protective gear, sweep up and place in a well-marked container for disposal. Avoid raising dust. Ventilate area.

DISPOSAL: Dispose of in accordance with all waste disposal regulations.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Keep in a tightly sealed container. Store in a cool, dry area. TOXIC. Wash thoroughly after handling. Avoid contact with skin, eyes, clothing. Do not breathe dust. Use with adequate ventilation in a controlled environment.

SECTION 8 Exposure Controls and Personal Protection

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

SKIN PROTECTION: Wear appropriate chemical resistant gloves.

VENTILATION: Mechanical exhaust required; chemical fume hood

RESPIRATOR: If ventilation if not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Synthetic apron, protection for shoes from exposure. Safety shower/eyewash capable of sustained flushing. TOXIC Avoid contact with clothing, skin. Do not breathe dust. Danger of cumulative effects. Avoid prolonged contact/ Do not eat, drink, smoke in area. Use in a controlled environment.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: White powder; pieces; odorless

MOLECULAR WEIGHT: 455.05

MELTING POINT (DEG. C.): 1130

SPECIFIC GRAVITY (WATER = 1): 8.23

BOILING POINT: No Data

VAPOR PRESSURE: Not applicable

VAPOR DENSITY (AIR = 1): No Data

% VOLATILE BY VOLUME: Non volatile

SOLUBILITY IN WATER: Insoluble

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SECTION 10 Stability and Reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No Data

INCOMPATIBILITY: No Data

DECOMPOSITION PRODUCTS: Lead oxide fumes.

SECTION 11 Toxicological Information

CARCINOGENIC EFFECTS: No

MUTAGENIC EFFECTS: No Data

TETRATOGENIC EFFECTS: No Data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.
To be used by qualified individuals only. Not for household or drug use.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: Do not allow material to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Lead compound, soluble, n.o.s. (Lead tungsten oxide) CLASS 6.1, UN2291, PG III

SECTION 15 Regulatory Information

TSCA: No Data

SARA (TITLE 313): Reportable under Section 313

RCRA: No Data

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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