

Lead Tungstate		Pricing >	
Linear Formula	PbWO₄		
Pubchem CID	24464		
MDL Number	MFCD00016281		
EC No.	231-849-7		
IUPAC Name	dioxido(dioxo)tungsten; lead(2+)		
Beilstein/Reaxys No.	N/A		
SMILES	[O-][W](=O)(=O)[O-].[Pb+2]		
Inchl Identifier	InChI=1S/4O.Pb.W/q;;2*-1;+2;		
Inchl Key	NKTZYSOLHFIEMF-UHFFFAOYSA-N		
Signal Word	Danger		
Hazard Statements	H302+H332-H360-H373-H410		
Hazard Codes Xi, Xn, N			
Precautionary Statements	P201-P260- + P330-P30	P280-P301 + P312 8 + P313	
Risk Codes	N/A	N/A	
Safety Statements			
Transport Information			
WGK Germany	3		



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### SAFETY DATA SHEET

Date Accessed: 04/17/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #7759-01-5

**Relevant identified uses of the substance:** Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

#### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral(Category 4), H302 Acute toxicity, Inhalation(Category 4), H332 Carcinogenicity(Category 1B), H350 Reproductive toxicity(Category 1A), H360 Specific target organ toxicity -repeated exposure(Category 2), H373 Acute aquatic toxicity(Category 1), H400 Chronic aquatic toxicity(Category 1), H410 GHS Label elements, including precautionary statements Pictogram



Signal word Danger Hazard statement(s) H302 + H332 Harmful if swallowed or if inhaled H350 May cause cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.

P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS-none

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula: O4PbW Molecular weight: 455.04 g/mol CAS-No.: 7759-01-5 EC-No.: 231-849-7

#### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

#### SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Tungsten oxide, Lead oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning uр Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

### SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Specific end use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated

### **SECTION 8. EXPOSURE**

### **CONTROLS/PERSONAL PROTECTION**

Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eve/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. **Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Form: solid Odor No data available Odor Threshold No data available pH No data available Melting point/freezing point

No data available Initial boiling point and boiling range No data available Flash point N/A Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Water solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscositv No data available Explosive properties No data available Oxidizing properties No data available Other safety information No data available

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Strong oxidizing agents Hazardous decomposition products Other decomposition products-No data available In the event of fire: see section 5

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: 3-Group 3: Not classifiable as to its carcinogenicity to humans(Lead(II) tungstate) 2A-Group 2A: Probably carcinogenic to humans(Lead(II) tungstate) IARC: 3-Group 3: Not classifiable as to its carcinogenicity to humans(Lead(II) tungstate) 2A-Group 2A: Probably carcinogenic to humans(Lead(II) tungstate) NTP: Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP.(Lead(II) tungstate) OSHA: OSHA specifically regulated carcinogen(Lead(II) tunastate) Reproductive toxicity No data available Known human reproductive toxicant Specific target organ toxicity -single exposure No data available Specific target organ toxicity -repeated exposure May cause damage to organs through prolonged or repeated exposure. Aspiration hazard No data available Additional Information **RTECS:** Not available Lead salts have been reported to cross the placenta and to induce embryo-and feto-mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive

exposure can affect blood, nervous, and digestive systems.

The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death.

Stomach-Irregularities-Based on Human Evidence Stomach-Irregularities-Based on Human Evidence

#### SECTION 12. ECOLOGICAL INFORMATION

Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT (US) UN number: 2291 Class: 6.1 Packing group: III Proper shipping name: Lead compounds, soluble, n.o.s.(Lead(II) tungstate) Reportable Quantity(RQ): Poison Inhalation Hazard: No IMDG UN number: 2291 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) tungstate) Marine pollutant: yes IATA UN number: 2291 Class: 6.1 Packing group: III Proper shipping name: Lead compound, soluble, n.o.s.(Lead(II) tungstate)

# SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Lead(II) tungstate CAS-No. 7759-01-5 **Revision Date** 1993-04-24 Pennsylvania Right To Know Components Lead(II) tungstate CAS-No. 7759-01-5 **Revision Date** 1993-04-24 New Jersey Right To Know Components Lead(II) tungstate CAS-No.

7759-01-5 Revision Date 1993-04-24 California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. Lead(II) tungstate

### **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.