

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: Lead granules
CAS #: 7439-92-1
FORMULA: Pb
SYNONYM: Lead flake, Rough lead bullion

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7439-92-1	100	0.05mg/m ³ (as Pb)	0.05mg/m ³ (as Pb)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Harmful by inhalation and if swallowed. May cause harm to the unborn child. Danger of cumulative effect! Possible risk of impaired fertility. May cause cancer.

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

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: The dust may cause slight to mild irritation of the skin.

INHALATION: Harmful by inhalation. Large dust exposure may cause seizures, coma, and cardio respiratory arrest.

INGESTION: Harmful if swallowed. Ingestion of dust may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

CHRONIC HEALTH EFFECTS: Possible risk of impaired fertility. May cause cancer. The chronic effects include diarrhea, loss of appetite, insomnia, weakness, muscle pain, headache, dizziness, anemia. The subject of chronic lead poisoning can not be adequately addressed in this document.

ACUTE HEALTH EFFECTS: Harmful by inhalation and if swallowed. May cause harm to the unborn child. Danger of cumulative effects.

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: none required

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 this material may emit toxic lead oxide dust.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Potentially combustible as fine dust. Dust may form explosive mixtures with air under some conditions.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

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

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: -20 mesh

MOLECULAR WEIGHT: 207.21

MELTING POINT (DEG. C.): no data

BOILING POINT: 1620°

VAPOR PRESSURE: 1mm (973°C)

SPECIFIC GRAVITY: 11.288

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Mixtures of fine dust with air in contact with an ignition source.

INCOMPATIBILITY: azides and fulminates

DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (human-woman); TDLo: 450 mg/kg/6Y. Inhalation (human); TCLo: 10 ug/m3. Intraperitoneal (rat); LDLo: 1 gm/k Oral (pigeon); LDLo: 160 mg/kg. Oral (rat); TDLo: 1050 ug/kg/30W-1. Oral (mouse); TDLo: 6879 mg/kg/5W-C. Inhalation (guinea pig) TCLo: 20 mg/m3/6H/30D-1. Inhalation (guinea pig); TCLo: 200 ug/m3/6H/26W-1. Oral (rat); TDLo: 300 mg/kg. Oral (mouse); TDLo: 4800 mg/kg. Unreported (human); cytogenetic analysis: 50 ug/m3.

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

non-hazardous

non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound is regulated under Section 313.

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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