



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lead Granules**

PRODUCT NUMBER: 2182

CAS NUMBER: 7439-92-1

MANUFACTURER:

Prochem, Inc.
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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302+H332	Harmful if swallowed or if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging 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 Phrases

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.
P273	Avoid release into the environment.
P281	Use personal protective equipment as required.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

HMIS CLASSIFICATION:

Health: 1 Chronic: * Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

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. Ingestions of dust may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Pb

Molecular Weight: 207.21

CHEMICAL NAME	CAS#	%
Lead	7439-92-1	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with plenty of water for at least 15 minutes. A victim may need assistance in lifting eyelids to rinse. Seek medical attention.

SKIN EXPOSURE: Immediately wash with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

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 determined

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Special powder for metal fires. Do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Lead oxide fumes

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Spills can be mixed with vermiculite or sodium carbonate and swept up. Place in a suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Lead	0.05 mg/m ³	TLV	ACGIH
	0.05 mg/m ³	PEL	OSHA
	0.05 mg/m ³	REL	NIOSH
	30µg/100mL	BEI-B	ACGIH
	10µg/100mL*	BEI-B	ACGIH

*Women of child bearing potential

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI-B: Biological Exposure Indices in Blood

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Gray solid

ODOR: None

MOLECULAR WEIGHT: 207.21

BOILING POINT: 1749° C

MELTING POINT: 327.5° C

SPECIFIC GRAVITY: 11.34 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

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

INCOMPATIBILITY: Oxidizing agents, azides, fulminates, and strong acids.

DECOMPOSITION PRODUCTS: Lead oxide fumes

SECTION 11 TOXICOLOGICAL DATA

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

CARCINOGENIC EFFECTS: This product is reasonably anticipated to be a carcinogen. There is a lack of epidemiologic studies on humans, but sufficient evidence from animal studies to link this product to cancer.

MUTAGENIC EFFECTS: Rat – Cytogenetic analysis

TETRAOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Diarrhea, loss of appetite, insomnia, weakness, muscle pain, headache, dizziness, anemia. The subject of chronic lead poisoning cannot be adequately addressed in this document.

RTECS: OF7525000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: Mortality LOEC – Oncorhynchus mykiss (rainbow trout) – 1.19mg/L – 96.0h. LC50 Micropterus dolomieu – 2.2mg/L – 96.0h. Mortality NOEC – Salvelinus fontinalis – 1.7mg/L 10.0d

AQUATIC INVERTEBRATE: Mortality LOEC – Daphnia – 0.099mg/L – 24h. Mortality NOEC – Daphnia – 0.17mg/L – 24h

TERRESTRIAL: Mortality EC50 – Skeletonema costatum – 7.94mg/L – 10d.

BIOACCUMULATIVE POTENTIAL: Oncorhynchus kisutch – 2 weeks – 150µg/L.

BIOCONCENTRATION FACTOR (BCF): 12

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Lead

CALIFORNIA PROP. 65: Lead

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Lead

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lead

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lead

SECTION 16 OTHER INFORMATION

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DATE PREPARED: 01/15

SDS DEPT.