



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lead (II) Molybdate**

PRODUCT NO: 2248

CAS NO: 10190-55-3

MANUFACTURER:

ProChem, Inc.
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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word **Danger**

Hazard Statements

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 Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and are understood
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/ doctor 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/ doctor if you feel unwell.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 2 Chronic Health Hazard: * Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 2 Fire: 0 Reactivity Hazard: 0

POTENTIAL HEALTH EFFECTS: Inhalation, Ingestion, Skin, Eye and may cause cancer.

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

SKIN CONTACT: May cause slight to mild irritation of the skin.

INHALATION: Large dust exposure may cause encephalopathy, then seizures, coma, and cardiorespiratory arrest.

INGESTION: Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, metallic taste, weakness, and convulsions.

CHRONIC HEALTH EFFECTS: The chronic effects of lead poisoning include diarrhea, loss of appetite, muscle pain, headache, dizziness, anemia, brain damage, and reproductive disorders. The subject of chronic lead poisoning cannot be adequately addressed in this document.

ACUTE HEALTH EFFECTS: Exposure may cause abdominal pain, loss of appetite, muscle weakness, headache, joint pain, metallic taste, and encephalopathy (swelling of the brain).

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PbMoO₄

Molecular Weight: 367.13

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
LEAD MOLYBDATE	10190-55-3	100	0.05mg/m3 (as Pb) 10mg/m3 (insol Mo)	0.05mg/m3 (as Pb) 10mg/m3 (insol Mo)

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: None

EXPLOSION LIMITS: None

EXTINGUISHING 'MEDIUM: None required

SPECIAL FIRE FIGHTING 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: No unusual fire or explosion hazards.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Ensure adequate ventilation. Evacuate all personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS: Do not let any product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Provide appropriate ventilation. Do not inhale / avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container away from moisture.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields or safety goggles, and face shield when handling a chemical 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: White powder

MELTING POINT: None

BOILING POINT: No data

ODOR: Not available

SPECIFIC GRAVITY (WATER=1): 6.92

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: .0017g/100cc (20°C)

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Air and moisture stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization.

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Azides and fulminates

DECOMPOSITION PRODUCTS: Toxic fume of lead oxides.

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: No information available in the RTECS files.

ACUTE TOXICITY: LD50 Oral – 500.1 mg/kg LC50Inhalation – 4h – 1.5 mg/l ~ dust/mist

CARCINOGENIC EFFECTS: IARC: 2A - Group 2A: Probably carcinogenic to humans (Lead molybdate)

NTP: RAHC - Reasonably anticipated to be a human carcinogen The reference note has been added by TD based on the background information of the NTP. (Lead molybdate) OSHA: OSHA specifically regulated carcinogen (Lead molybdate)

MUTAGENIC EFFECTS: No data.

TETRATOGENIC EFFECTS: May cause congenital malformation in the fetus. Known human reproductive toxicant

Additional Information:

Lead salts have been reported to cross the placenta and to induce embryo- and fetomortality. 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 over exposure 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

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

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound: See category N420 for reporting.

SARA 302 Compounds: This material does not contain any components with a section 302 EHS TPQ.

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

MASSACHUSETTS RIGHT to KNOW Compound: lead molybdate

PENNSYLVANIA RIGHT TO KNOW Compound: lead molybdate

CALIFORNIA PROP.65 Compound was rev. 09/28/2007. which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. Lead molybdate

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 PREVIOUSLY PREPARED: 08/13

DATE REVISION 07/26

REVISION SUMMARY: Removed fax number. All other details in this document about the product remained unchanged. Updated by EHS 7/16/26
EHS/SDS DEPT.