



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lead (II) Nitrate**  
PRODUCT NUMBER: 2254  
CAS NUMBER: 10099-74-8  
SYNONYMS: Lead dinitrate, plumbous nitrate

### MANUFACTURER:

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H272	May intensify fire; oxidizer.
H302+H332	Harmful if swallowed or if inhaled.
H318	Causes serious eye damage.
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 understood.
P210	Keep away from heat/sparks/open flames/hot surfaces.
P220	Keep/store away from clothing/combustible material.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust or mist.
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 into the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

### HMIS CLASSIFICATION:

Health: 2      Chronic: \*      Fire: 0      Reactivity Hazard: 2

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 2      Specific Hazard: OX

**EYE CONTACT:** Causes serious eye damage.

**SKIN CONTACT:** May be harmful if absorbed through the skin. Causes skin irritation.

**INHALATION:** Harmful if inhaled. Causes respiratory tract irritation.

**INGESTION:** Harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $Pb(NO_3)_2$

Molecular Weight: 331.21

CHEMICAL NAME	CAS#	%
Lead (II) Nitrate	10099-74-8	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under the eyelids. Seek medical attention immediately.

**SKIN EXPOSURE:** Immediately wash with soap and plenty of water. Seek medical attention.

**INHALATION:** Remove to fresh air and keep at rest. If required, provide artificial respiration. Seek immediate medical attention.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable. Contact with combustible material may cause fire.

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Nitrogen oxides and lead oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Ensure adequate ventilations. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Keep away from heat and sources of ignition.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from flammable substances, reducing agents, organic materials, metal powders, water, and moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

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

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible 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:** White solid

**ODOR:** None

**MOLECULAR WEIGHT:** 331.21

**BOILING POINT:** No data available

**MELTING POINT:** 470° C (dec.)

**SPECIFIC GRAVITY:** 4.53 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** None known

**INCOMPATIBILITY:** Strong reducing agents, organic materials, and powdered metals.

**DECOMPOSITION PRODUCTS:** Lead oxides and nitrogen oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Intravenous – rat – 93mg/kg. LD50 Intraperitoneal – mouse – 74mg/kg.

**CARCINOGENIC EFFECTS:** Probably carcinogenic to humans

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** OG2100000

Lead salts have been reported to cross the placenta and to induct embryo- and feto- mortality. This substance is toxic to blood, kidneys, lungs, the nervous system, and mucous membranes.

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

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO FISH:** LC50 – *Oncorhynchus mykiss* (rainbow trout) – 1.5mg/L – 96.0h LC50 – *Cyprinus carpio* (Carp) – 0.4-1.3mg/L – 96.0h

**TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** EC50 – *Daphnia magna* (Water flea) – 0.5-2.0mg/L – 48h

Very toxic to aquatic life with long lasting effects. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in the water bodies. Avoid transfer into the environment.

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

UN1469

Lead Nitrate

CLASS 5.1 (6.1)

PG II

Marine Pollutant: Yes

## SECTION 15 REGULATORY INFORMATION

**SARA 302/304:** Not Listed

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

**SARA (TITLE 313):** Lead Nitrate

**CALIFORNIA PROP. 65:** Lead Nitrate

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Lead Nitrate

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Lead Nitrate

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Lead Nitrate

## SECTION 16 OTHER INFORMATION

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