



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

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

PRODUCT NUMBER: 2293

CAS NUMBER: 1314-87-0

SYNONYMS: Plumbous sulfide

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.
H360	May damage fertility or the unborn child.
H373	May cause damage to the blood, the brain, and the musculoskeletal system through prolonged or repeated exposure. Route of exposure: Oral and inhalative.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	If exposed or concerned: Get medical advice/attention.

HMIS CLASSIFICATION:

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

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes irritation of the skin.

INHALATION: Harmful if inhaled. Causes respiratory tract irritation by inhalation.

INGESTION: Harmful if ingested. Causes irritation of the digestive tract.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PbS

Molecular Weight: 239.26

CHEMICAL NAME	CAS#	%
Lead (II) Sulfide	1314-87-0	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 eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. 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: Do NOT induce vomiting. Give 2-4 cups of milk or water, provided victim is conscious. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

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

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides, hydrogen sulfide, and lead oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Keep unprotected persons away.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Without creating dust, 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 ventilation. Avoid contact with skin and eyes. Do not breathe dust.

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

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Lead (II) Sulfide	0.05 mg/m ³	PEL	USA
	0.05 mg/m ³	REL	USA
	0.05 mg/m ³	TLV	USA

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit TLV: Threshold Limit Value over 8 hours of work.

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Black solid

ODOR: None

MOLECULAR WEIGHT: 239.26

BOILING POINT: 1281° C

MELTING POINT: 1118° C

SPECIFIC GRAVITY: 7.5 gm/ml

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Generation of dusts

INCOMPATIBILITY: Oxidizing agents, active metals, and sodium.

DECOMPOSITION PRODUCTS: Sulfur oxides, hydrogen sulfide, and lead oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: Possible human carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

RTECS: OG4550000

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-Pimephales promelas (fathead minnow) – 0.915 mg/l – 96 h.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: EC50 – Daphnia magna (Water flea) – 0.138 mg/l – 48 h.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORTATION DATA

UN3077

Marine Pollutant: No

Environmentally hazardous substance, solid, n.o.s.

(Lead (II) sulfide)

CLASS 9

PG III

SECTION 15 REGULATORY INFORMATION

SARA 302/304: Not Listed

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Lead (II) Sulfide

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Lead (II) Sulfide

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lead (II) Sulfide

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lead (II) Sulfide

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 PREPARED: 03/15

SDS DEPT.