

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Lead (II) sulfide
CAS #: : 1314-87-0
FORMULA: PbS
SYNONYM: Galena, Plumbous sulfide

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1314-87-0	100	0.05mg/m ³ (as Pb)	0.05mg/m ³ (as Pb)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Lead salts are cumulative poisons. Chronic effects are severe and include muscle pain, headache, anemia, brain damage, and reproductive disorders. May cause cancer.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin and eyes

EYE CONTACT: Dust may cause moderate irritation of the eyes.

SKIN CONTACT: : May cause slight 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 can not be adequately addressed in this document.

ACUTE HEALTH EFFECTS: Lead sulfides may cause conjunctivitis, abdominal pain, nausea, dizziness, muscle weakness, headache, joint pain, swelling of the brain, pulmonary edema and possible death.

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: carbon dioxide, or dry powder

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 irritating fumes of hydrogen sulfide and sulfur dioxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Dust may form explosive mixtures with air. Contact with acids gives off hydrogen sulfide, a toxic and flammable gas.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, the fine powder should be covered with dry sodium carbonate or dolomite in order to reduce the formation of dust. Sweep up the mixture.

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: black powder

MOLECULAR WEIGHT: 239.25

MELTING POINT (DEG. C.): no data

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 7.5

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact of dust cloud with an ignition source.

INCOMPATIBILITY: oxidizing agents.

DECOMPOSITION PRODUCTS: hydrogen sulfide, sulfur dioxide, and metal oxides.

SECTION 11 Toxicological Information

RTECS DATA: Intraperitoneal (rat); LDLo: 1810-mg/kg. Oral (guinea pig); LDLo:10 gm/kg. Oral (rat); TDLo: 16764 mg/kg/6W-C.

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

Other regulated substances, solid, n.o.s., Class 9, NA #3077, PG III

Aviation regulated solid, n.o.s., Class 9, UN # 3335, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

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

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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