MATERIAL SAFETY DATA SHEET

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

Manufacturer: ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

Phone: (815) 398-1788
Fax: (815) 398-1810
E-Mail: Prochem1@aol.com

SECTION 1 Product Identification

CHEMICAL NAME: Lead antimonide
CAS #: 12266-38-5
FORMULA: PbSb

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	12266-38-5	100	0.05mg/m3 (as Pb) 0.5mg/m3 (as Sb)	0.05mg/m3 (as Pb) 0.5mg/m3 (as Sb)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Lead compounds are cumulative poisons. Chronic effects are severe and include headache, anemia, brain damage, and reproductive disorders. May cause cancer. Antimony may cause anemia.
PRIMARY ROUTES OF EXPOSURE: Ingestion, skin, inhalation of dust.
EYE CONTACT: May cause slight to mild irritation of the eyes.
SKIN CONTACT: May cause slight to mild irritation of the skin
INHALATION: Large dust exposure may cause encephalopathy, then seizures, coma, and cardiorespiratory distress.
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. Antimony compounds can cause bleeding gums, laryngitis, headache, anemia, nervous complaints and skin eruptions.
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 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 toxic lead oxide dust.
UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAD PROCEDURES: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

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: gray powder
MOLECULAR WEIGHT: 328.94
MELTING POINT (DEG. C.): no data
BOILING POINT: no data
VAPOR PRESSURE: not applicable
SPECIFIC GRAVITY: no data
SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: none
INCOMPATIBILITY: oxidizing agents
DECOMPOSITION PRODUCTS: lead oxide and antimony oxide fumes

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files.
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

Toxic solid, Inorganic, n.o.s., Class 6.1, UN 3288, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound : See category 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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