

LTS Research Laboratories, Inc. Safety Data Sheet Lead Antimonide

1. Product and Company Identification

Trade Name: Lead Antimonide

Chemical Formula: PbSb

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

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 Statements: P202: Do not handle until all safety precautions have been read and

understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands, and any exposed 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 P281: Use personal protective equipment as required

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell. Rinse mouth

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P308+P313: IF exposed or concerned: Get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 0

3. Composition			
Chemical Family:	Alloy		
Additional Names:	Lead Antimony		
Lead antimonide (PbSb):			
Percentage:	100 wt%		
CAS #:	12266-38-5		
EC #:	235-536-6		
	4. First Aid Procedures		
General Treatment:	Seek medical attention if symptoms persist.		
Special Treatment:	None		
Important Symptoms:	None		
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.		
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce		
~.	vomiting or give anything by mouth to an unconscious person.		
Skin:	Wash affected area with mild soap and water. Remove any		
P	contaminated clothing.		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing		
	5. Firefighting Measures		
Flammability:	Non-flammable, except as powder		
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Wear fully protective impervious suit. See section 10 for decomposition products.		
	6. Accidental Release Measures		
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.		
Environmental Precautions:	Isolate runoff to prevent environmental pollution.		
	7. Handling and Storage		
Handling Conditions:	Wash thoroughly after handling.		
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from		
	materials and conditions listed in section 10.		
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before		
	eating and smoking. Do not blow dust off clothing or skin with		
Vantilation	compressed air.		
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.		

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as PbSb, long-term value

Threshold Limit Value: 0.05 mg/m³ as PbSb, long-term value, confirmed animal carcinogen

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
Melting Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
N/A
N/A

Molecular weight: 328.94 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Toxic metal compounds, Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes irritation
Skin: May cause irritation
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: EPA-B2: Probable human carcinogen, sufficient evidence from animal

studies; inadequate evidence or no data from epidemiologic studies. IARC-2B: Possibly carcinogenic to humans: limited evidence in human

in the absence of sufficient evidence in experimental animals.

NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of

carcinogenicity from epidemiologic studies.

ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon unlikely routes or level of exposure.

12. Ecological Information

Aquatic Toxicity: Very toxic for aquatic organisms

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:

Notes:

Very toxic for aquatic organisms N/A

Do not allow material to be released to the environment without proper governmental permits.

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system, even in small quantities Danger to drinking water if even extremely small quantities leak into

the ground.

N/A

Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life

Avoid transfer into the environment Very toxic for aquatic organisms

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only



Hazard Class: 6.1 Toxic substances

Packing Group: PG III
UN Number: UN1549

Proper Shipping Name: Antimony compounds, inorganic, solid n.o.s. (Lead Antimonide)

	15.	Regulatory	Information
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Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 01/11/2022