

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Antimonide

1. Product and Company Identification

Trade Name: Zinc Antimonide

Chemical Formula: ZnSb

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
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: H301+H311: Toxic if swallowed or in contact with skin

H332: Harmful if inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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. P280 Wear protective gloves/ protective clothing.

P301+P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

in a position comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P322 Specific measures (see supplemental first aid instructions on this

label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

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: Ceramic	
Zinc Antimonide (ZnSb):	100
Percentage: CAS #:	100 wt% 12039-35-9
EC#:	234-893-5
LC π.	254-075-3
	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. Keep patient warm. Seek medical advice.
Ingestion:	Seek medical treatment
Skin: Eyes:	Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek medical advice
	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Consult doctor
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Specific righting recodule.	clothing to prevent contact with skin and eyes. 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
W 1 / W 1 / 3 / 1	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
Ventilation:	compressed air.
v chiliation.	Provide sufficient ventilation to maintain concentration at or below threshold limit.
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8. Exposure Controls and Personal Protection

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

Threshold Limit Value: 0.5 mg/m³ as ZnSb, long-term value

Special Equipment: None

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate

use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Gloves: Rubber gloves

Check gloves prior to each use

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 Silver/white Form: Powder, Granules

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:

Odorless
N/A
N/A
N/A
N/A
N/A

Density: 6.33 g/cc

Molecular weight: 184.10 g/mol Research

10. Reactivity

Stability: Stable under recommended storage conditions

None

Reacts With: Oxidizing agents, Acids. In contact with water releases flammable

gases which may ignite spontaneously

Incompatible Conditions:

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: Toxic
Ingestion: Toxic
Inhalation: Harmful
Chronic: N/A

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

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: High Persistent Bioaccumulation Toxicity: N/A

Very Persistent, Very Bioaccumulative: N/A

Notes: Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous



Hazard Class: 6.1 Toxic Substances

Packing Group: III UN Number: UN1549

Proper Shipping Name: Antimony compounds, inorganic, solid, n.o.s. (Zinc monoantimonide)

15. Regulatory Information

- Research

Sec 302 Extremely Hazardous:

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.

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