

LTS Research Laboratories, Inc. Safety Data Sheet Antimony Metal

1. Product and Company Identification

Trade Name: Antimony

Chemical Formula: Sb

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont
State: North Carolina
Zip Code: 28012

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: Warning



Hazard Statements: H351: Suspected of causing cancer

H373: May cause damage to organs through prolonged or repeated

exposure if inhaled

H402: Harmful to aquatic life

Precautionary Statements: P201: Obtain special instructions before use

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

understood

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

P273: Avoid release to the environment

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection

 $P308 + P313; \ IF \ exposed \ or \ concerned; \ Get \ medical \ advice/ \ attention$

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4): Powder Bulk Health: 2 1

Flammability: 0 0 Physical: 1 0

3. Composition	
1.44.10	
Antimony (Sb):	100
Percentage: CAS #:	100 wt% 7440-36-0
EC#:	231-146-5
	4. First Aid Procedures
General Treatment:	Remove any contaminated clothing.
	Supply oxygen if breathing is difficult.
	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air.
Ingestion:	Do not induce vomiting. Seek immediate medical attention
Skin:	Wash affected area with mild soap and water.
Eyes:	Flush eyes with water, blinking often for several minutes.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water for metal fires – use extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	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
XX 1.0X X	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. Provide sufficient ventilation to maintain concentration at or below
v Chillation.	threshold limit.
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8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as Sb, long-term value Threshold Limit Value: 0.5 mg/m³ as Sb, long-term value

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber gloves, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

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 grey / Grey

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

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

Odorless
Insoluble
1635 °C
1630 °C
N/A
330 °C
06.684 g/cc
16.684 g/cc

Molecular weight: 121.76 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, Acids

Incompatible Conditions: Excess heat, Avoid dust formation, Exposure to air

Hazardous Decomposition Products: Antimony oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Toxic
Inhalation: Harmful
Chronic: N/A

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

Median Lethal Dose: LD50 Oral- 7000 mg/kg for rat by mouth

Carcinogen: Suspected of causing cancer.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

12. Ecological Information

Aquatic Toxicity: Harmful to aquatic life

Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

Very Persistent, Very Bioaccumulative: Notes:

Toxic to aquatic life
May cause long lasting harmful effects to aquatic life

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.

POISON 6

Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN2871

Proper Shipping Name: Antimony powder

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
No
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: 08/23/2023