

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Antimony

1. Product and Company Identification

Trade Name: Cobalt antimony

Chemical Formula: CoSb

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: Toxic if swallowed

H317: May cause an allergic skin reaction

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

Precautionary Statements:

P261 Avoid breathing dust/fume/vapor P264: Wash thoroughly after handling

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

protection

P284: Wear respiratory protection

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

in a position comfortable for breathing P321: Specific treatment (see on this label)

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician

P363: Wash contaminated clothing before reuse

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

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

Physical: 1

3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Cobalt (Co):		
Percentage:	0-100 wt%	
CAS #:	7440-48-4	
EC #:	231-158-0	
Antimony (Sb):		
Percentage:	0-100 wt%	
CAS #:	7440-36-0	
EC #:	231-146-5	
	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:	Seek immediate medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
_	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	
	- Research	
Flammability:	Non-flammable, except as powder	
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	
	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.	
Engineer montal Propositions	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	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
	threshold limit.	

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as Co, metal dust and fume, long-term value

0.5 mg/m³ as Sb, long-term value

Threshold Limit Value: 0.02 mg/m³ as Co, 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, NBR
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

Form: Sputtering target

Odor: N/A
Water Solubility: Insoluble
Boiling Point: N/A

Melting Point: 377-1202 °C

Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Halogens, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Antimony oxides

11. Toxicological Information

Potential Health Effects:

Eyes:Causes irritating effectSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

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

Median Lethal Dose: 100 mg/kg for rat by mouth

Carcinogen: IARC-2B: Possibly carcinogenic to humans: limited evidence in human

in the absence of sufficient evidence in experimental animals.

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

or unlikely routes or level of exposure.

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	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: III UN Number: UN1549

Proper Shipping Name: Antimony compounds, inorganic, solid, n.o.s. (Cobalt antimony)

	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
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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