

LTS Research Laboratories, Inc. Safety Data Sheet Germanium Antimonide

1. Product and Company Identification		
Trade Name:	Germanium antimonide	
Chemical Formula:	GeSb	
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: Precautionary Statements:	H301: Toxic if swallowed H332: Harmful if inhaled P261 Avoid breathing dust/fume/vapor P264: Wash thoroughly after handling P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing	
	P321: Specific treatment P405: Store locked up	
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
	2	
Health:		
	1	
Health: Flammability: Physical:		
Flammability:	1	
Flammability: Physical: Chemical Family:	1 1 3. Composition Semimetallic alloy	
Flammability: Physical:	1 1 3. Composition	
Flammability: Physical: Chemical Family: Additional Names: Germanium antimonide (GeSb):	1 1 3. Composition Semimetallic alloy None	
Flammability: Physical: Chemical Family: Additional Names: Germanium antimonide (GeSb): Percentage:	1 1 3. Composition Semimetallic alloy None 100 wt%	
Flammability: Physical: Chemical Family: Additional Names: Germanium antimonide (GeSb):	1 1 3. Composition Semimetallic alloy None	

4. First Aid Procedures		
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None	
Inhalation: Ingestion: Skin:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Do not induce vomiting. Seek immediate medical attention. Remove any contaminated clothing. Wash affected area with mild soap	
Eyes:	and water. 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 extinguishing powder. 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: Storage Conditions:	Wash thoroughly after handling. 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. E	xposure Controls and Personal Protection	
Permissible Exposure Limits: Threshold Limit Value:	0.5 mg/m ³ as Sb, long-term value 0.5 mg/m ³ as Sb, long-term value	
Special Equipment: Respiratory Protection:	None 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: Penetration time of glove material: Eye Protection: Body Protection:	Nitrile rubber, NBR 0.11mm thick. 480 minutes Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	
body Flottenoll.	sleeves/pants.	

9. Physical and Chemical Characteristics		
Color	Silver-grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	191.47 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Halogens, Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	Toxic	
Inhalation:	Harmful	
Chronic:	N/A	
	Research	
Signs & Symptoms:	N/A horatorias, inc.	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	100 mg/kg for rat by mouth as Sb	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	High	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	Toxic for aquatic organism.	
	May cause long lasting harmful effect on aquatic life.	
	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.	
	Do not allow undiluted product or large quantities to reach ground	
	water, water course or sewage system.	
	Avoid transfer into the environment.	

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:	UN1549	
Proper Shipping Name:	Antimony compounds, inorganic, solid, n.o.s. (Germanium antimonide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes, Antimony	
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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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