

LTS Research Laboratories, Inc. Safety Data Sheet Tellurium Germanium Antimony Silver

1. Product and Company Identification

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Trade Name:	Tellurium germanium antimony silver
Chemical Formula:	Te/Ge/Sb/Ag
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
Hannah Chataman ta	H301: Toxic if swallowed
Hazard Statements:	
	H332: Harmful if inhaled H315: Causes skin irritation
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Precautionary Statements:	H315: Causes skin irritationH319: Causes serious eye irritationH335: May cause respiratory irritationP261 Avoid breathing dust/fume/vapor
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3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Tellurium (Te):		
Percentage:	0-100 wt%	
CAS #:	13494-80-9	
EC #:	236-813-4	
Germanium (Ge):		
Percentage:	0-100 wt%	
CAS #:	7440-56-4	
EC #:	231-164-3	
Antimony (Sb):		
Percentage:	0-100 wt%	
CAS #:	7440-36-0	
EC #:	231-146-5	
Silver (Ag):	251 110 5	
Percentage:	0-100 wt%	
CAS #:	7440-22-4	
EC #:	231-131-3	
	251 151 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 medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
SKIII.	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
Lycs.	contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
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	
L	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.	
En monimental i recautolio.	isonae ranon to provent 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/Hygionic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before	
Work/Hygienic Maintenance:	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. Ex	posure Controls and Personal Protection	
Permissible Exposure Limits:	0.1 mg/m ³ as Te, long-term value	
Threshold Limit Value:	0.1 mg/m^3 as Te, 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 0.11mm thick.	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
	sieeves/pants.	
9.	Physical and Chemical Characteristics	
Color	Grey/black Bestarch	
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:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Bases, Halogens, Interhalogens, Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume, Antimony oxides, Hydrogen telluride	

11. Toxicological Information

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Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.	
	12. Ecological Information	
Aquatic Toxicity:	High	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
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.	
	Toxic to aquatic life.	
	13. Disposal Considerations	
Dispose of in accordance with local, state	, national, and international regulations.	
	14. Transportation Data	
Hazardous:	Hazardous for transportation as powder and pieces	
	POISON 6	
Hazard Class:	6.1 Toxic substances	
Packing Group: UN Number:	III UN3288	
Proper Shipping Name:	Toxic solid, inorganic, n.o.s. (Tellurium germanium antimony silver)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Components	
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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:

07/02/2015

