

LTS Research Laboratories, Inc. Safety Data Sheet Antimony selenide

1. Product and Company Identification	
Trade Name:	Antimony selenide
Chemical Formula:	Sb_2Se_3
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
	and the second s
	- KR6 / ch
Hazard Statements:	H300+H330 Fatal if swallowed or inhaled
	H373 May cause damage to organs through prolonged or repeated
	exposure
Precautionary Statements:	P260 Do not breathe dust/fume/gas/mist/vapours/spray
	P284 Wear respiratory protection
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER
	or doctor/physician
	P320 Specific treatment is urgent
	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:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Antimony (III) selenide
Antimony Selenide (Sb ₂ Se ₃):	
Percentage:	100 wt%
CAS #:	1315-05-5
EC #:	215-256-0

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:	Flammable	
Extinguishing Media:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam	
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 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:	0.2 mg/m^3 as Se, long-term value	
Threshold Limit Value:	0.2 mg/m^3 as Se, long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
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	Grey/Black	
Form:	Powder, Granules, Pellets	
Odor:	Odorless	
Water Solubility:	N/A	
Boiling Point:	N/A	
Melting Point:	611 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	5.81 g/cc	
Molecular weight:	480.4 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Toxic metal oxide fume, Hydrogen selenide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes irritation	
Skin:	Causes irritation	
Ingestion:	Fatal	
Inhalation:	Fatal	
Chronic:	N/A	
	Decreek	
Signs & Symptoms:		
Aggravated Medical Conditions:	N/A	
66		
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	Do not allow material to be released to the environment without prope	
	governmental permits.	
	Do not allow product to reach ground water, water course or sewage	
	system, even in small quantities.	
	Danger to drinking water if even extremely small quantities leak into	
	the ground.	
	May cause long lasting harmful effects to aquatic life.	
	Avoid transfer into the environment.	
	Very toxic to aquatic organisms.	
	13. Disposal Considerations	

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

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
Hazard Class:	9 Miscellaneous dangerous substances and articles	
Packing Group:	III	
UN Number:	UN3077	
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (Antimony (III) Selenide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
	N/A	
Sec 304 Reportable Quantities:		

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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