



LTS Research Laboratories, Inc.
Safety Data Sheet
Antimony selenium alloy

1. Product and Company Identification

Trade Name: Antimony selenium alloy
Chemical Formula: SbSe
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: 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: Intermetallic alloy
Additional Names: Antimony selenium

Antimony (Sb):
Percentage: 0-100 wt%
CAS #: 1315-05-5
EC #: 231-146-5

Selenium (Se):
Percentage: 0-100 wt%
CAS #: 1315-05-5
EC #: 231-957-4

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: CO₂, 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:	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:	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
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

12. Ecological Information

Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic for aquatic organism

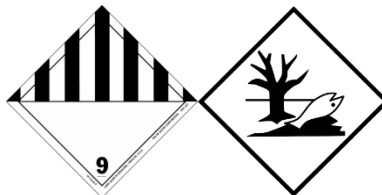
13. Disposal Considerations

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

14. Transportation Data

Hazardous:

Hazardous



Hazard Class:

9 miscellaneous dangerous substances and articles

Packing Group:

III

UN Number:

UN3077

Proper Shipping Name:

Environmentally hazardous substances, solid, n.o.s. (Antimony (III) selenide)

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.

Document Last Revised:

06/12/2015