LTS Research Laboratories, Inc.
Safety Data Sheet
Arsenic Selenide

1. Product and Company Identification

Trade Name:	Arsenic selenide
Chemical Formula:	As_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

Hazard Statements: H330: Fatal if inhaled

Precautionary Statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P284 Wear respiratory protection
P320 Specific treatment is urgent (see on this label)
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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:	1
Physical:	1

3. Composition

Chemical Family:	Ceramic
Additional Names:	Arsenic (III) selenide
Arsenic selenide (As_2Se_3):	
Percentage:	100 wt%
CAS #:	1303-36-2
EC #:	215-119-5

4. First Aid Procedures

General Treatment:	Remove any contaminated clothing. Remove breathing apparatus only after contaminated clothing has been completely removed. Supply oxygen if breathing is difficult. Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek immediate medical attention
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:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
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	Brown/Black
Form:	Powder, Granules
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	360 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.75 g/cc
Molecular weight:	386.72 g/mol

10. Reactivity

Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Selenium dioxide, Arsenic oxides

11. Toxicological Information

Potential Health Effects:

Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Fatal
Inhalation:	Fatal
Chronic:	N/A

Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	>5000 mg/kg for rat by mouth
Carcinogen:	EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a casual association between exposure and cancer IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans. Carcinogen as defined by OSHA NTP-K: Known to be carcinogenic: sufficient evidence from human studies
Addition information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

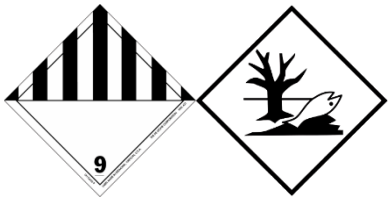
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic for aquatic organisms Avoid transfer into the environment Keep away from water sources May cause long lasting harmful effects to aquatic life

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. (Arsenic 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.

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