

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Antimony selenide

1. Product and Company Identification

Trade Name: Antimony selenide

Chemical Formula: Sb₂Se₃

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

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: Ceramic

Additional Names: Antimony (III) selenide

Antimony Selenide (Sb₂Se₃):

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. Flush eyes with water, blinking often for several minutes. Eyes: 5. Firefighting Measures Flammability: Flammable Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.2 mg/m³ as Se, long-term value Threshold Limit Value: 0.2 mg/m³ 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
	N/A
Autoignition Temperature: 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
emonie.	14/11
Signs & Symptoms:	N/A
	N/A
Aggravated Medical Conditions:	IV/A
Median Lethal Dose:	N/A
	N/A 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.
	, or , come to aquatio organization

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 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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