

XI'AN FUNCTION MATERIAL GROUP CO., LTD 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:	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:	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: Physical:	1 1 1	
	3. Composition	
Chemical Family: Additional Names:	Ceramic Arsenic (III) selenide	
Arsenic selenide (As ₂ Se ₃):		
Percentage:	100 wt%	
CAS #:	1303-36-2	
EC #:	215-119-5	

4. First Aid Procedures	
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.	
None	
None	
Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Seek immediate medical attention Do not induce vomiting, seek immediate medical attention	
Wash affected area with mild soap and water.	
Flush eyes with water, blinking often for several minutes.	
5. Firefighting Measures	
Non-flammable	
No special restrictions – use suitable extinguishing agent for	
surrounding material and type of fire. 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	
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. Isolate runoff to prevent environmental pollution.	
7. Handling and Storage	
Wash thoroughly after handling.	
Store in a cool dry place in a tightly sealed container. Store apart from	
materials and conditions listed in section 10. 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 threshold limit.	
Exposure Controls and Personal Protection	
0.2 mg/m^3 as Se, long-term value	
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None	
Dust Respirator	
Rubber gloves	
Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	

9. F	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	

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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