



XI'AN FUNCTION MATERIAL GROUP CO., LTD  
Material Safety Data Sheet  
Aluminum selenide

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### 1. Product and Company Identification

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Trade Name: Aluminum selenide  
Chemical Formula:  $\text{Al}_2\text{Se}_3$

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

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### 2. Hazards Identification

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Signal Word: Danger



Hazard Statements: H300+H330 Fatal if swallowed or if 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: 3  
Flammability: 0  
Physical: 1

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### 3. Composition

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Chemical Family: Ceramic  
Additional Names: N/A

Aluminum Selenide ( $\text{Al}_2\text{Se}_3$ ):

Percentage: 100 wt%  
CAS #: 1302-82-5  
EC #: 215-110-6

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#### 4. First Aid Procedures

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General Treatment:	Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed Seek immediate medical attention
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Do not induce vomiting
Skin:	Wash affected area with mild soap and water.
Eyes:	Flush eyes with water, blinking often for several minutes.

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#### 5. Firefighting Measures

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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.

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#### 6. Accidental Release Measures

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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.

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#### 7. Handling and Storage

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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.

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#### 8. Exposure Controls and Personal Protection

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Permissible Exposure Limits:	0.2 mg/m <sup>3</sup> as Se, long-term value
Threshold Limit Value:	0.2 mg/m <sup>3</sup> 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.

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### 9. Physical and Chemical Characteristics

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Color	Pale brown
Form:	Granules
Odor:	Odorless
Water Solubility:	decomposes
Boiling Point:	N/A
Melting Point:	947 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.437 g/cc
Molecular weight:	290.84 g/mol

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### 10. Reactivity

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Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Water
Incompatible Conditions:	Moisture
Hazardous Decomposition Products:	Metal oxide fume, Selenium dioxide (SeO <sub>2</sub> )

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### 11. Toxicological Information

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#### 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: N/A

Carcinogen: N/A

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### 12. Ecological Information

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Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A

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### 13. Disposal Considerations

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

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#### 14. Transportation Data

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Hazardous:

Hazardous



Hazard Class:

6.1 Toxic substances

Packing Group:

II

UN Number:

UN3283

Proper Shipping Name:

Selenium compound, solid, n.o.s. (Aluminum selenide)

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#### 15. Regulatory Information

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Sec 302 Extremely Hazardous:

No

Sec 304 Reportable Quantities:

N/A

Sec 313 Toxic Chemicals:

Yes

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#### 16. Other Information

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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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