

#### XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Aluminum antimonide

<ol> <li>Product and Co</li> </ol>	npany Identification
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Trade Name: Aluminum antimonide

Chemical Formula: AlSb

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: Shannxi
Zip Code: 710077
Country: China

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

# 2. Hazards Identification

Signal Word: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264: Wash thoroughly after handling

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

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: None

Aluminum antimonide (AlSb):

Percentage: 100 wt% CAS #: 25152-52-7 EC #: 346-667-3

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Seek Medical Attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire 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 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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: 0.5 mg/m³ as Sb, long-term value Threshold Limit Value: 0.5 mg/m³ as Sb, long-term value

Special Equipment: None

Respiratory Protection:
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	N/A		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble N/A 1050 °C N/A N/A		
Boiling Point:			
Melting Point:			
Flash Point:			
Autoignition Temperature:			
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:	Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	Causes irritating effect		
Skin:	Irritant to skin and mucous membranes		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	Antimony compounds may cause metallic taste, gastrointestinal		
	disturbances, vomiting, diarrhea, dizziness, and systemic poisoning.		
	Chronic exposure may cause liver and kidney damage. Dermatitis and eczematous skin eruptions may result from skin contact.		
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.		
	May cause long lasting harmful effect on aquatic life.		
	Do not allow material to be released to the environment without prope		
	governmental permits.		
	Do not allow product to reach any water sources.		
	Danger to drinking water if even extremely small quantities leak into		
	the ground.		
	Also poisonous for fish and plankton in water bodies.  Avoid transfer into the environment.		

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN1549

Proper Shipping Name: Antimony compounds, inorganic, solid, n.o.s. (Aluminum antimonide)

15. Regulatory Information	
No	
N/A	
Yes	
	No N/A

#### 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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