

## GHS Safety Data Sheet

SDS No. : ALI01PAEG

Date Issued: 2004/07/05

Last updated: 2016/03/25

### Section 1. Identification of the substance or mixture and of the supplier

#### 1.1 Product Information

**Product name:** Al<sub>2</sub>S<sub>3</sub> Aluminum sulfide

Product number:	Purity	Form	Size (μm)
ALI11XB	98%	irregular	—
—	99.99%(4N)	powder	—

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.  
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284  
 Phone: +81-49-284-1511 Fax: +81-49-284-1351  
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### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	<b>Substances and mixtures which, in contact with water, emit flammable gases : Category 1</b>

GHS Label: F



Pictograms or symbols

**Warning word: DANGER**

Hazard information	Description of precaution
In contact with water releases flammable gases which may ignite spontaneously	Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Handle under inert gas. IN CASE OF FIRE: Wear protective gloves/eye protection/face protection. Use «refer to our SDS» to extinguish. IF ON SKIN: Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed. Dispose of contents/ container in accordance with local/national regulations.

#### Additional hazard information :

Contact with water may liberate toxic and flammable gases.

With respect to additional hazard information, see Section 11.

### Section 3. Composition / information on ingredients

Chemical or common name: Aluminum sulfide  
 Chemical formula: Al<sub>2</sub>S<sub>3</sub>  
 Single Substance or Compound: Single substance  
 Composition: 100%

CAS #:	1302-81-4
RTECS#:	not listed
TSCA inventory :	listed
EINECS:	2151090

#### **Section 4. First aid measures**

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

#### **Section 5. Fire fighting measures**

Extinguishing media:	Dry sand, Perlite ,Metal fire extinguishers. Do not use water, form or carbon dioxide.
Fire fighting:	Contact with water may liberate toxic and flammable gases. Remove containers to safe place if possible. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

#### **Section 6. Accidental release measures**

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dusts/ fume.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Absorb or cover with vermiculite or other suitable absorbent, and dispose of DOT-approved waste containers as much as possible. Carefully collect remnant and move to a safe place.

#### **Section 7. Handling and storage**

##### **Precautions to be taken in handling:**

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure. Handle the material in a dry inert gas atmosphere, utilizing glove bag or glove box. Keep away from moisture when handling. Keep container or bottle tightly closed when not in use.
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##### **Precautions to be taken in storage:**

General precautions:	Store in a cool, dry place away from incompatible materials. Keep container or bottle tightly closed.
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### Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH (2013): No data available OSHA (2006): No data available
Facility measures:	Local ventilation of closed work room or total proper ventilation to prevent inhalation.
Protective ware:	Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots.

### Section 9. Physical and chemical properties

Color and Form:	Yellow - gray solid
Chemical formula:	Al <sub>2</sub> S <sub>3</sub>
Formula weight:	150.2
Melting point:	1100 °C
Boiling point:	1550 °C (under nitrogen gas) sublimates
Density:	2.02 g/cm <sup>3</sup>
Solubility:	Water: hydrolyzed aluminum hydroxide and hydrogen sulfide on contact with water. Dissoluble: Soluble in acids, and decomposes.
Flammable:	Ignites in air when heated.
Oxidation:	None

### Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Oxidizing agents, acids.
Condition to avoid:	Moisture, air, water.

### Section 11. Toxicological information

Acute toxicity(Oral):	GHS ; No data available
Acute toxicity(Dermal, inhalation):	GHS ; No data available
Skin corrosive / irritation:	GHS ; No data available
Serious eyes damage / eye irritation:	GHS ; No data available
Respiratory/ skin sensitization:	GHS ; No data available
Germ cell mutagenicity:	GHS ; No data available
Carcinogenicity:	GHS ; No data available
Reproductive toxicity:	GHS ; No data available
Specific target organ toxicity	
—single exposure:	GHS No data available
Specific target organ toxicity	
—repeated exposure:	GHS ; No data available
Aspiration hazard:	GHS ; No data available

### Section 12. Ecological information

Ecotoxicity:	
Hazards to the aquatic environment	
—acute toxicity:	GHS ; No data available

Hazards to the aquatic environment —chronic toxicity:	GHS ; No data available
Hazardous to the ozone layer:	GHS ; No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	Al Biological half-life 550 day, Rate of absorption oral=0.1 , Respiratory tract=0.3
Mobility in soil:	No data available

### Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

### Section 14. Transport information

UN number: 3134  
 IATA shipping name: Water-reactive solid, toxic, n.o.s.  
 IATA classification: Hazardous Class 4.3  
 (substances which, in contact with water, emit flammable gases)  
 IATA packing group: I  
 HS code: 2830.90  
 Marine pollution: None  
 Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

### Section 15. Regulatory information

TSCA inventory : Listed.  
 Please refer to any other local / national measures that may be relevant.

### Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.