

## GHS Safety Data Sheet

SDS No. : ALE06GAEG

Date Issued : 1998/03/02

Last updated : 2024/04/03

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

#### Product Information

Product name:Al Aluminum

Product number:	Purity	Form	Size or Shape
ALE11GB	99.5%(2N5)	grains, shot	3~5mm
ALE03GB	99.7%(2N7)	grains, shot	5~10mm
ALE04GB	99.9%(3N)	grains	ca. 20mm
ALE05GB	99.99%(4N)	grains, wire-cut	φ 3×ca.L3 (mm)
ALE21GB	99.99%(4N)	grains, wire-cut	φ 3×ca.L4(mm)
ALE10GB	99.99%(4N)	grains, shot	5~10mm
ALE07GB	99.999%(5N)	grains, wire-cut	φ 1.5×ca.L5(mm)
ALE20GB	99.999%(5N)	grains	ca. 10mm
ALE22GB	99.999%(5N)	grains, wire-cut	φ 3×ca.L3 (mm)
ALE23GB	99.999%(5N)	grains, wire-cut	φ 3×ca.L5 (mm)
ALE01WB	99.99%(4N)	wire	φ 0.5 (mm)
ALE03WB	99.99%(4N)	wire	φ 1.5 (mm)
ALE06WB	99.99%(4N)	wire	φ 3.5 (mm)
ALE07WB	99.99%(4N)	wire	φ 5 (mm)
ALE08WB	99.999%(5N)	wire	φ 1.5 (mm)
ALE09WB	99.999%(5N)	wire	φ 2 (mm)
ALE10WB	99.999%(5N)	wire	φ 6.35 (mm)
ALE11WB	99.99%(4N)	wire	φ 1(mm)
ALE12WB	99.99%(4N)	wire	φ 2(mm)
ALE13WB	99.99%(4N)	wire	φ 3(mm)
ALE03RB	99.99%(4N)	tablet	φ 20×t5 (mm)
ALE07RB	99.999%(5N)	tablet	φ 10×t5 (mm)
ALE01CB	99.99%(4N)	chips	5×5×t1 (mm)
ALE02CB	99.99%(4N)	chips	10×10×t1 (mm)
ALE03CB	99.999%(5N)	chips	5×5×t1 (mm)
ALE04CB	99.999%(5N)	chips	10×10×t1 (mm)
—	99.999%(5N)	tablet	Various sizes, Various shape
—	99.999%(5N)	rod	Various sizes, Various shape

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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**Recommended uses and restrictions on use:** For research purposes



High Purity Materials

**KOJUNDO CHEMICAL LABORATORY CO.,LTD.**

## Section 2. Hazards identification

### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure: Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified

### GHS Label:



Pictograms or symbols:

### Warning word: **Danger**

Hazard information	Description of precaution
Causes damage to organs (respiratory organs) Causes damage to organs through prolonged or repeated exposure (respiratory organs)	Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

## Section 3. Composition / information on ingredients

Chemical or common name:	Aluminum
Chemical formula:	Al
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7429-90-5
RTECS#:	BD0330000
TSCA inventory :	listed
EINECS:	2310723

## 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.

## Section5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	The product is not combustible. 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 vapor/dusts.



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**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.
- Gather up, pack in closed DOT-approved waste container 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.

**Precautions to be taken in storage:**

General precautions: Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from incompatible materials.

**Section 8. Exposure controls / personal protection****Exposure guideline:**

Chemical Name	ACGIH(2024) TLV-TWA mg/m <sup>3</sup>	OSHA(2006) PEL-TWA mg/m <sup>3</sup>
Aluminum	1(R)	5(R),15(T)

R:respirable particles, T:Total dust

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 etc.

**Section 9. Physical and chemical properties**

Color and Form:	Silver white, odorless.
Chemical formula:	Al
Formula weight:	26.98
Melting point:	660.32 °C
Boiling point:	2467 °C
Specific gravity:	2.6989 g/cm <sup>3</sup>
Solubility in water:	Insoluble(cold water), Reacts and forms hydrogen(hot water).
Flammability:	Non-combustible substance
Oxidation:	None

**Section10. Stability and reactivity**

Stability: Stable when stored in sealed container at room temperature.

**Reactivity**

Condition to avoid: Air, moisture

Incompatibility: Acids, oxidizing agent, halogens, bases

**Section11. Toxicological information**

Acute toxicity: GHS : No data available

Skin corrosive / irritation: GHS : No data available

Serious eye damage / irritation: GHS : No data available



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Respiratory sensitization: GHS : No data available  
 Skin sensitization: GHS : No data available  
 Germ cell mutagenicity: GHS : No data available  
 Carcinogenicity: GHS : No data available

Chemical Name	ACGIH (2024)	IARC (2022)	NTP (2021)
Aluminum	A4	—	—

ACGIH A4 : Not classifiable as a Human Carcinogen.

Reproductive toxicity: GHS : No data available  
 Specific target organ toxicity  
     — single exposure: GHS : Category 1 ; Causes damage to organs(respiratory organs)  
     — repeated exposure: GHS : Category 1 ; Causes damage to organs through prolonged or repeated exposure(respiratory organs)  
 Aspiration hazard: GHS : No data available

### Section12. Ecological information

Ecotoxicity:  
 Hazardous to the aquatic environment  
     — acute toxicity: GHS : No data available  
     — 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: No data available  
 Mobility in soil: No data available

### Section13. 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 classification: Non-hazards  
 UN number: None  
 HS code: 7601.10(lumps),7605.19(wire),7616.99(others)  
 Marine pollution: None

### Section 15. Regulatory information

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

### Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.