

GHS Safety Data Sheet

SDS No. : ALH03XAEG

Date Issued : 2004/06/18

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

Product Information

Product name: Al(NO₃)₃·9H₂O Aluminum nitrate, hydrous

Product	Purity	Form	Size or Shape
ALH09XB	99.9%(3N)	—	—
ALH10XB	99.999%(5N)	—	—

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Serious eye damage/eye irritation : Category 2	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified Oxidizing solids : Category 3

GHS Label: X, W



Pictograms or symbols:

Warning word: **WARNING**

Hazard information	Description of precaution
May intensify fire; oxidizer Causes serious eye irritation	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. IN CASE OF FIRE: Wear protective gloves/eye protection/face protection. Use 《refer to our SDS》 to extinguish. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store away from heat and combustible materials. Take any precaution to avoid mixing with combustible materials. Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name: Aluminum nitrate nonahydrate

Chemical formula: Al(NO₃)₃·9H₂O

Single Substance or Compound: Single substance



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

Composition:	100%
CAS #:	7784-27-2 (anhydrous : 13473-90-0)
RTECS#:	BD1050000
TSCA inventory :	Listed (anhydrous)
EINECS:	2367518 (anhydrous)

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:	Water fog or foam, Perlite ,dry sand. Do not use carbon dioxide or dry chemicals.
Fire fighting:	The product is not combustible but enhances combustion of other substances. In case of fire, the product may liberate toxic gases/ fume. 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.
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:	Remove combustible materials and all sources of ignition. 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. 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 the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH(2019) : 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, protective gloves.

Section 9. Physical and chemical properties

Appearance:	Colorless solid, deliquescent.
Chemical formula:	Al(NO ₃) ₃ · 9H ₂ O
Formula weight:	375.1
Melting point:	73.5 °C
Boiling point:	150 °C(decomposes)
Density:	1.72 g/cm ³
Solubility:	Soluble ; water, ethanol, acid, alkali, acetone. Decomposes ; hot water.
Flammable:	Non-combustible substance
Oxidation:	Oxidizing substance

Section10. Stability and reactivity

Stability:	Stable in a sealed dry atmosphere under room temperature.
Reactivity	
Incompatibility:	Strong reducing agents, strong acids, combustible substances, metal powder.
Condition to avoid:	Heat, ignition source, moisture.
Hazardous decomposition products:	Nitrogen oxides.

Section11. Toxicological information

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : Category 2 ; Causes serious eye irritation
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
– repeated exposure:	GHS : No data available
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

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: 1438
IATA shipping name: Aluminum nitrate
IATA hazard class: Class 5.1 (Oxidizing substances)
IATA packing group: III
HS code: 2834.29
Marine pollution: None

Section 15. Regulatory information

TSCA inventory: listed (anhydrous).
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.

