
SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Aluminum Chloride

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CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Aluminum chloride
Synonym: hexahydrate aluminum trichloride
CAS#: 7784-13-6

SECTION 3 — HAZARDS IDENTIFICATION

Moist, white crystals.
Slightly toxic by ingestion. Body tissue irritant. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-1
Flammability-0
Reactivity-1
Exposure-1
Storage-1

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.
Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.
Eye or External: Immediately flush with fresh water for at least 15 minutes.
Internal: Rinse mouth. Give large quantities of water for dilution. Do not dilute. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.
When heated to decomposition, may emit chlorine and aluminum fume.
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Ventilate area and sweep up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates, and phosphates.
Deliquescent. Store in a cool, dry place within a Chem-Saf bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant clothing. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Moist, white crystals.	Boiling point (hexahydrate): 120 °C
Solubility: Water.	Melting point (hexahydrate): 0 °C
Formula: AlCl ₃ · 6H ₂ O	Specific gravity (hexahydrate): 1.3
Formula weight: 241.43	

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong acids.
 Shelf life: Poor, deliquescent. Store in a Chem-Saf bag.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Dust is an irritant.	ORL-RAT LD ₅₀ : 3311 mg/kg (hexahydrate)
Chronic effects: N.A.	IHL-RAT LC ₅₀ : N.A.
Target organs: N.A.	SKN-RBT LD ₅₀ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.
 Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated.
 Hazard class: N/A
 UN number: N/A
 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-208-1).

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
 for additional information about laboratory chemicals.**