Aluminum Chloride Anhydrous

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9377

SECTION 2 — HAZARDS IDENTIFICATION
Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS Number</th>
<th>Formula</th>
<th>Formula Weight</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum chloride, anhydrous</td>
<td>7446-70-0</td>
<td>AlCl₃</td>
<td>133.35</td>
<td></td>
</tr>
</tbody>
</table>

Synonyms: Trichloro aluminum

SECTION 4 — FIRST AID MEASURES
Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
If on skin: Wash with plenty of water.
If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES
Nonflammable solid.
When heated to decomposition, may emit toxic fumes.
In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code
H-3
F-0
R-2
No Water
SECTION 6 — ACCIDENTAL RELEASE MEASURES
Keep moisture and water away from material. Gather up material in a pile (do not sweep). Dispose of material using Flinn suggested disposal method #1b. DO NOT dispose of in the trash.

SECTION 7 — HANDLING AND STORAGE
Flinn Suggested Chemical Storage Pattern: Inorganic #9. Store with acids, except nitric acid. Store in a dedicated acid cabinet and away from any source of water. Reacts violently with water to liberate HCl. If an acid cabinet is not available, store in a Flinn Saf-Cube™. Prolonged storage of anhydrous aluminum chloride in closed containers has resulted in spontaneous decomposition and occasional explosion upon opening the container. Store in a cool, dry place. Keep container tightly closed.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION
Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES
White to pale-yellow powder. Hydrochloric acid odor. Melting point: 192 °C
Soluble: Water, reacts violently. Specific gravity: 2.4

SECTION 10 — STABILITY AND REACTIVITY
Reacts violently with water forming hydrochloric acid and heat. Avoid contact with alcohols and water. Shelf life: Poor. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION
Acute effects: Corrosive, irritant. ORL-RAT LD₅₀: 3450 mg/kg
Chronic effects: N.A. IHL-RAT LC₅₀: N.A.
Target organs: N.A. SKN-RBT LD₅₀: 2 g/kg

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 #1b is one option.

SECTION 14 — TRANSPORT INFORMATION
Shipping name: Aluminum chloride, anhydrous. Hazard class: 8, corrosive. UN number: UN1726.

SECTION 15 — REGULATORY INFORMATION
TSCA-listed, EINECS-listed (231-208-1), RCRA code D002, D003.

SECTION 16 — OTHER INFORMATION
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PRODUCT(S).

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

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

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