

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 37.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Aluminum Chloride, Anhydrous

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Aluminum Chloride, anhydrous

Synonym: Trichloro Aluminum

CAS#: 7446-70-0

Section 3 — Hazards Identification

White to pale-yellow powder.

Reacts violently with water to liberate HCl. Slightly toxic by ingestion and inhalation.

Corrosive to body tissues. Avoid all body contact.

FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-3

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. Call emergency medical service for transport to a medical facility.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

Reacts violently with water to produce hydrogen chloride gas.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher.

Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3

F-0

R-2

No Water

Section 6 — Accidental Release Measures

Restrict unprotected personnel area. Keep moisture and water 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 mineral acids.

Store in a dedicated acid cabinet and away from any source of water; 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

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use exhaust ventilation to keep airborne concentrations low.

When heating material 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

White to pale-yellow powder.

Formula: AlCl_3

Formula Weight: 133.35

Specific Gravity: 2.4

Section 10 — Stability and Reactivity

Reacts violently with water forming hydrochloric acid. Avoid contact with alcohols and water.

Shelf Life: Poor.

Section 11 — Toxicological Information

Acute effects: Corrosive, irritant

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: 3730 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: 2 gm/kg

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 consult with state and local regulations.

Flinn Suggested Disposal Method #1b is one option.

Section 14 — Transport Information

Shipping Name: Aluminum chloride, anhydrous

Hazard Class: 8, corrosive

UN Number: UN1726

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-208-1), RCRA code D002, D003.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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