SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Aluminum Nitrate

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 nitrate

CAS#: 7784-27-2

SECTION 3 — HAZARDS IDENTIFICATION

White crystals. Slightly toxic by ingestion. Strong oxidizer. Severe eye and mild skin irritant. Avoid all body tissue contact.

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. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

When heated to decomposition, may emit toxic fumes of NO_x.

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

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 #3. Store with amides, nitrates and, nitrites. Store in a cool, dry place.

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.

FLINN AT-A-GLANCE Health-1 Flammability-0 Reactivity-3 Exposure-2 Storage-0 0 is low hazard, 3 is high hazard

NFPA CODE

None established

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals Solubility: Soluble in cold water, but decomposes in hot water, alcohol, and acetone. Formula: $Al(NO_3)_3 9H_2O$ Formula weight: 375.13

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong reducing agents, finely powdered metals, strong acids, alkyl esters, and other organic chemicals. Shelf life: Indefinite, if stored properly.

SECTION 11 - TOXICOLOGICAL INFORMATION

When heated to decomposition, emits toxic fumes of NOx. Acute effects: Severe eye irritant, dizziness, convulsions. Chronic effects: N.A. Target organs: Skin. ORL-RAT LD₅₀: 3671 mg/kg IHL-RAT LC₅₀: N.A. SKN-RBT LD₅₀: 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: Aluminum Nitrate Hazard class: 5.1, Oxidizer UN number: UN1438 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (236-751-8), RCRA D001.

SECTION 16 — OTHER INFORMATION

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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

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Boiling point: 135 $^{\circ}C$ (decomposes) Melting point: 74 $^{\circ}C$