



Item No: A16325

Aluminum nitrate nonahydrate 98%

Chemical Formula: $Al(NO_3)_3 \cdot 9H_2O$ CAS #: 7784-27-2

Molecular Weight: 375.14 Hazard Information: Aluminum Nitrate UN1438 Class 5.1 PGIII

COMPOSITION/INFORMATION on INGREDIENTS

<u>Chemical Name:</u>	Aluminum nitrate nonahydrate
<u>Synonyms:</u>	Not Available
<u>CAS Number:</u>	7784-27-2
<u>MDL Number:</u>	MFCD00003419
<u>FEMA Number:</u>	Not Available
<u>C.I. Number:</u>	Not Available
<u>Beilstein Reg. Number:</u>	Not Available
<u>Molecular Formula:</u>	$Al(NO_3)_3 \cdot 9H_2O$
<u>Molecular Weight:</u>	375.14

HAZARDS IDENTIFICATION

<u>Acute Health Hazard:</u>	Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.
<u>Chronic Health Hazard:</u>	Hygroscopic, Strong Oxidizer
<u>HMIS Rating:</u>	H:2 F:0 R:1
<u>NFPA Rating:</u>	H:2 F:0 R:1

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

FIRST AID MEASURES

<u>Eye Contact:</u>	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention. Causes Irritation.
<u>Skin Contact:</u>	Wash skin with soap and water. If irritation persists, seek medical attention.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention.
<u>Inhalation:</u>	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

FIRE FIGHTING MEASURES

<u>Flash Point:</u>	Not Available
<u>Explosion Limits:</u>	Lower: Not Available Upper: Not Available
<u>Auto Ignition Temperature:</u>	Not Available
<u>Extinguishing Media:</u>	Carbon dioxide, dry chemical powder or foam, water spray.
<u>Protective Equipment:</u>	Wear self-contained respirator and fully protective impervious suit.
<u>Specific Hazards:</u>	Emits hazardous fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u>	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.
<u>Environmental Protection:</u>	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry, well-ventilated place.

Storage Temperature: 15 - 30°C

EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Eyewash facility in vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	2 mg/m ³
	USA	OSHA	PEL	2 mg/m ³

PHYSICAL and CHEMICAL PROPERTIES

Appearance: Colorless Solid

Odor: Not Available

Melting Point: 73 °C

Boiling Point: Not Available

Density: Not Available

Refractive Index, n²⁰_D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available

STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Strong oxidizing agents.

TOXICOLOGICAL INFORMATION

RTECS Number: BD1050000

Target Organs: Not Available

Toxicity Data: Oral Rat LD₅₀: 3,671 mg/kg

DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

TRANSPORT INFORMATION

DOT Shipping Name: Aluminum Nitrate

DOT UN Number: UN1438

DOT Hazard Class: 5.1

DOT Packing Group: III

IATA Shipping Name: Aluminum Nitrate

IATA UN Number: UN1438

IATA Hazard Class: 5.1

IATA Packing Group: III