

Humco Holding Group, Inc.  
7400 Alumax Drive  
Texarkana, TX 75501  
903-831-7808

Item #0395-0049

**Ammonium Alum**

**Date Prepared:** 09/14/99

---

**SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION**

---

**Product Name:** Ammonium Alum Powder

**Emergency Telephone Numbers:**

Humco Holding Group, Inc. 800-662-3435  
Chemtrec 800-424-9300

---

**SECTION 2 HAZARDOUS INGREDIENT INFORMATION**

---

$\text{Al NH}_4 (\text{SO}_4) 12\text{H}_2\text{O}$   
Ammonium Aluminum Sulfate  
Crystal Alum

Hazardous substance applies when discharged into navigable water, category (P) harmful amount 5,000 pounds.

**ACGIH** = 2Mg(Al)/M3

**CAS** #7784-26-1

**HMIS Designation:** 1H, OF, OR

**DOT:** Non-hazardous

---

**SECTION 3 PHYSICAL/CHEMICAL CHARACTERISTICS**

---

**Boiling Point:** NA                      **Specific Gravity:** 1.64

**Vapor Pressure:** NA                      **Melting Point:** 200°F

**Vapor Density:** NA                      **Evaporation Rate:** NA

**Solubility in Water:** Moderate.

**Appearance & Odor:** Colorless, odorless crystals or white powder.

---

SECTION 4

FIRE & EXPLOSION HAZARD

---

**Flashpoint:** NA

**Flammable Limits:** Not flammable.

**Extinguishing Media:** Not flammable.

**Special Fire Fighting Procedures:** NA

**Unusual Fire & Explosion Hazards:** Decomposes to ammonia, sulfur dioxide, nitrogen & sulfur trioxide at high heat. Flammable limits per ammonia gas in air are from 16 - 25%

---

SECTION 5

REACTIVITY DATA

---

**Stable:** Yes.

**Incompatibility (Materials to Avoid):** Alkalies will release ammonia gas.

**Hazardous Decomposition or Byproducts:** Ammonia Gas (NH<sub>3</sub>), Sulfur Dioxide (SO<sub>2</sub>), and possibly Sulfur Trioxide (SO<sub>3</sub>)

**Hazardous Polymerization:** Will not occur.

---

SECTION 6

HEALTH HAZARD DATA

---

**Route(s) of Entry:**

**Skin:** Irritation

**Inhalation:** Irritation

**Ingestion:** May be harmful

**Health Hazards (Acute & Chronic):** Irritation of skin & mucous membranes.

**Carcinogenicity:** NA

**NTP:** NA

**Signs & Symptoms of Exposure:** Irritation possible from inhalation, eye contact or prolonged skin contact.

**Medical Conditions Generally Aggravated by Exposure:** NA

**Emergency & First Aid Procedures:** Wash skin, flush eyes with plenty of water for at least 15 minutes & get medical attention. For ingestion get medical attention.

---

**HAZARD RATING SYSTEMS:** This information is for people trained in: National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

	NFPA 704	KEY	4 = Severe
Health	1		3 = Serious
Flammability	0		2 = Moderate
Reactivity	0		1 = Slight
			0 = None

---

**SECTION 7 PRECAUTIONS FOR SAFE HANDLING & USE**

**Steps to be taken in Case Material is Released or Spilled:** Shovel up & remove. Flush residue with water.

**Waste Disposal Method:** Dissolve in water & flush to waste as permitted by applicable regulations.

**Precautions to be taken in Handling & Storing:** Store in cool, dry place.

---

**SECTION 8 CONTROL MEASURES**

**Respiratory Protection:** NIOSH approved respirator where required.

**Ventilation:** N/A

**Local Exhaust:** As necessary to eliminate dust.

**Mechanical:** NA

**Protective Gloves:** Rubber or vinyl.

**Eye Protection:** Safety glasses or chemical safety goggles.

**Protective Clothing or Equipment:** Clothing sufficient to protect skin from dust.