



EMERGENCY NUMBERS:

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(CAN) CANUTEC : 1(613) 996-6666 (24hrs)

(USA) Anachemia : 1(518) 297-4444

(CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: D-2B		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.
		

Section I. Product Identification and Uses

Product name	ALUMINUM AMMONIUM SULFATE	CI#	Not available.
Chemical formula	AlNH ₄ (SO ₄) ₂ ·12H ₂ O	CAS#	7784-26-1
Synonyms	Ammonium alum dodecahydrate, Ammonium aluminum sulfate dodecahydrate, AC-0360, AC-0361, 02852, 02864	Code	AC-0360
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	453.33
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients

Name	CAS #	%	TLV
1) ALUMINUM AMMONIUM SULFATE DODECAHYDRATE	7784-26-1	99-100	Exposure limits: ACGIH (Aluminum soluble salts (as Al)) TWA 2 mg(Al)/m ³

Toxicity values of the hazardous ingredients

 ALUMINUM AMMONIUM SULFATE:
 LD50: Not available.
 LC50: Not available.

Section III. Physical Data

Physical state and appearance / Odor	Solid. (White crystals. Odorless.)
pH (1% soln/water)	3.0-4.0 (5%, 25°C)
Odor threshold	Not applicable.
Percent volatile	0% at 21°C
Freezing point	94.5°C
Boiling point	Loses water @ 250°C
Specific gravity	1.65 (Water = 1)
Vapor density	Not available.
Vapor pressure	Not available.
Water/oil dist. coeff.	Not available.
Evaporation rate	Not applicable.
Solubility	Soluble in water.

Section IV. Fire and Explosion Data

Flash point	Not applicable.
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Fire degradation products	Oxides of aluminum, nitrogen, and sulfur. Ammonia.
Fire extinguishing procedures	Use extinguishing media appropriate to surrounding fire conditions. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water until well after fire is out.
Fire and Explosion Hazards	Container explosion may occur under fire conditions or when heated. Contact with oxidizers may cause fire and/or explosion. Not expected to be sensitive to static discharge. Not expected to be sensitive to mechanical impact. When heated to decomposition it emits toxic fumes.

Section V. Toxicological Properties

Routes of entry	Inhalation and ingestion. Eye contact. Skin contact.
Effects of Acute Exposure	Harmful by ingestion, inhalation or skin absorption. Irritant. Hydrolysis in water or moisture to form corrosive sulfuric acid and possibly ammonia. Corrosive effects on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. Strict adherence to first aid measures following any exposure is essential.
Eye	Material combines with moisture in the eye to form a weak sulfuric acid solution. This product may cause redness, irritation and possible damage due to abrasiveness. Repeated or prolonged eye contact may cause serious damage to the eyes.
Skin	Causes skin irritation and astringent. Repeated or prolonged skin contact may cause dermatitis.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. Symptoms of exposure may include burning sensation, coughing, laryngitis, dyspnea, headache, nausea, and vomiting.
Ingestion	May cause burns to mouth, throat and stomach. Large amounts may cause nausea, vomiting, diarrhea, abdominal pain, anorexia, anuria, hypotension, hemolysis, hematuria, gastrointestinal inflammation, liver damage with jaundice, collapse and convulsions.

Section V. Toxicological Properties

Effects of Chronic Overexposure Repeated or prolonged skin contact may cause dermatitis. Repeated or prolonged exposure to aluminum may cause pulmonary fibrosis, numbness of the fingers and encephalopathy (a degenerative disease of the brain). Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact IMMEDIATELY flush eyes with copious quantities of water for at least 20 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.

Skin contact Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

Ingestion If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. DO NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Section VII. Reactivity Data

Stability Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products Not available.

Incompatibility Oxidizing agents, reducing agents, alkalis, potassium chlorate, sodium nitrite, potassium nitrite, ammonium nitrate and potassium. In the presence of moisture or water, this product will corrode aluminum, copper, zinc, steel and other metals.

Reaction Products Product loses water at 250°C and decomposes at 280°C. Solutions can be corrosive to metals. Evolves ammonia on contact with alkalis. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

ALUMINUM AMMONIUM SULFATE

page 4/4

Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak Evacuate the area. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material.

Waste disposal According to all applicable regulations. Harmful to aquatic life at low concentrations. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate in a well ventilated area or under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. Do not expose closed containers above 40°C.

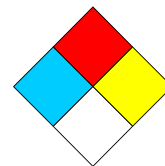
Section IX. Protective Measures

Protective clothing Splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. If more than TLV, do not breathe vapor. Wear self-contained breathing apparatus. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use in a chemical fume hood to keep airborne levels below recommended exposure limits. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Harmful solid! Irritant! May cause burns. Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Keep away from heat, sparks and flame. Solutions are corrosive. Handle and open container with care. Container should be opened only by a technically qualified person. RTECS NO: WS5640010 (Aluminum ammonium sulfate).



NFPA

Prepared by MSDS Department/Département de F.S..

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