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ALDEN LEEDS, INC. PRODUCT CODE # 2101-2102 MATERIAL  
55 JACOBUS AVE. PRODUCT NAME: FLOCK SAFETY DATA  
SO. KEARNY, NJ 07032 SHEET  
(973) 589-3544 1/7/11  
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**SECTION I - IDENTIFICATION**

**CHEMICAL NAME & SYNONYMS:** Aluminum Sulfate  
**CHEMICAL FAMILY:** Inorganic Acid Salt  
**CHEMICAL FORMULA:** AL<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub> - 14H<sub>2</sub>O  
**TRADE NAME:** Flock or Private Label  
**DESCRIPTION:** white crystalline powder with no odor.  
**CAS NO:** 10043-01-3 (anhydrous)

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**SECTION II - PHYSICAL DATA**

**Boiling Point:** N/A **Melting Point:** N/A  
**Vapor Pressure:** N/A **Specific Gravity (H<sub>2</sub>O=1):** 1.61  
**% Volatile by Volume:** N/A Powder: 0.64  
**Solubility in water:** Rice: 1.09  
50% @ 0°C **Vapor Density:** N/A  
49% @ 20°C **Evaporation Rate:** N/A

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**SECTION III - HAZARDOUS INGREDIENTS**

MATERIAL	CAS NO.	% BY WEIGHT	HAZARD DATA
Aluminum Sulfate	10043-01-3	99.6	None

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** N/A **Autoignition Temp:** N/A  
**Flammable Limits in Air % By Volume:** N/A  
**Extinguishing Media:** No fire hazard.  
**Special Fire Fighting Procedures:** Dry alum is fire retardant.  
**Unusual Fire and Explosion Hazards:** Wet alum will cause slippery footing.

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**SECTION V - HEALTH HAZARD DATA**

**Threshold Limit Value:** none established. Closest category 100 mg/m<sup>3</sup> (nuisance dust).  
**EFFECTS OF OVEREXPOSURE:**  
**Inhalation:** Dust or mist inhalation at 2 mg AL/cu. m. (ACGIH) -TLV, may irritate respiratory tract.  
**Skin:** If dry, may cause irritation. If wet, there will be acidic irritation (especially under repeated or prolonged use).  
**Eye:** If dry, dust may irritate or burn eyes. If wet, there will be acidic irritation.  
**Ingestion:** May irritate gastrointestinal tract, LD50 (mouse) = approximately 10.8 g/kg (slightly toxic). May cause nausea, vomiting and purging. Human fatal dose recorded at 30 grams.  
**Other:** If wet, there will be acidic irritation of open wounds and mucous membranes.  
**Aquatic Toxicity:** 96-h LC50 100-500 ppm.

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**SECTION VI - EMERGENCY AND FIRST AID PROCEDURE**

**INHALATION:** Promptly remove patient to fresh air.  
**SKIN:** Flush with soap and water or at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.  
**EYE:** Flush immediately with water holding eyelids apart, for 15 minutes. If irritation persists. Get medical attention

**INGESTION:** If conscious, drink large quantities of water or milk. Induce vomiting by touching finger to back of throat. Get immediate medical attention.

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Aluminum Sulfate

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**SECTION VII - REACTIVITY DATA**

**Stability:** Stable

**Conditions to Avoid:** Temperature above 760°C yield toxic and corrosive gases. Wet alum will corrode steel.

**Incompatibility (materials to avoid):** Steel or other ferrous materials. Alkalies and water reactive materials such as oleum cause exothermic reactions.

**Hazardous Decomposition:** At temperatures cited above, sulfur oxide gases. These are toxic and are oxidizers and corrosive. The trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.

**Hazardous Polymerization:** Will not occur, no conditions to avoid.

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**SECTION VIII - SPILL, LEAKAGE & DISPOSAL PROCEDURES**

**Steps to take if material leaks or spills:** Dry material may be shoveled into containers for later use or disposal. Any residual or dissolved alum may be neutralized to pH7 with soda ash and flushed away with water.

**Waste disposal method:** Must comply Local Environmental regulations concerning disposal. Dissolve in water. Neutralize with alkali, then flush to sewer if permitted by applicable disposal regulations.

**EPA Hazardous Substances:** Yes

**Reportable Quantity:** 8700#  
(but not regulated if less than  
8700 # in one package)

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**SECTION IX - SPECIAL PROTECTION DATA**

**Ventilation:**

Local Exhaust: If dusty or misty condition prevails. May exceed TLV with out visible indication.

**Respiratory Protection:** Dust mask or dust respirator.

**Protective Gloves:** Wear rubber or plastic gloves.

**Eye Protection:** Use safety glasses or goggles. DO NOT wear contact lens when handling this product.

**Other Equipment:** Steel tipped rubber safety shoes, hard or soft brimmed hat. Wear clean clothing daily.

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**SECTION X - SPECIAL PRECAUTIONS DATA**

**Handling and Storage:** Store in dry area to avoid caking and bag deterioration due to humidity.

**Labeling:** Bulk shipment tag signal word: WARNING!

**Other:** Have eye wash and shower stations nearby.

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**SECTION XI - TRANSPORTATION INFORMATION**

This material is not a hazardous material and is not regulated by the D.O.T. For all transportation accidents, call **CHEMTREC** at 800-424-9300.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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ALDEN LEEDS, INC.  
55 JACOBUS AVE. SO. KEARNY, NJ 07032  
24 HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300