



MATERIAL SAFETY DATA SHEET

SUPER FLOC

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Date: 4/25/08

Distributed by: NAVA Water Products, 95 MacCorkle Ave. South Charleston, WV 25303
Tel:304-746-3000 Fax:304-746-3034

Manufactured by: Phoenix Products Company, 55 Container Drive, Terryville, CT 06786
Tel:860-589-7502 Fax:860-589-7501

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EMERGENCY NUMBER 1-800-420-9236

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SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS: Aluminum Sulfate

CHEMICAL FAMILY: Inorganic Acid Salt

CHEMICAL FORMULA: $Al_2(SO_4)_3 \cdot 14H_2O$

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

Vapor Pressure: N/A

% Volatile by Volume: N/A

Solubility in water:

50% @ 0°C

49% @ 20°C

Melting Point: N/A

Specific Gravity (H₂O=1): 1.61

Powder: 0.64

Rice: 1.09

Vapor Density: N/A

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/m3 (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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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.

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

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