

Material Safety Data Sheet

Provided by:
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ALUMINUM SULFATE SOLUTION
Synonyms LIQUID ALUM
Chemical Name ALUMINUM SULFATE LIQUID
Emergency phone: 281-457-4888
Chemtrec: 800-424-9300
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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER	REMAINDER	
ALUMINUM SULFATE	50%	10043-01-3

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 2 mg/m3
Eye Contact MAY CAUSE IRRITATION AND BURNS.
Skin Contact MAY CAUSE IRRITATION.
Ingestion MAY CAUSE IRRITATION AND BURNS TO DIGESTIVE TRACT.
Inhalation MAY CAUSE IRRITATION TO RESPIRATORY TRACT.
Carcinogenicity: NTP NO IARC NO OSHA NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.
Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.
Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (°F) NOT APPLICABLE
Extinguishing Media MEDIA SUITABLE FOR SURROUNDING FIRE.
Special Firefighting Procedures/Precuations WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. USE WATER SPRAY TO KEEP CONTAINERS COOL.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill:

DILUTE SMALL SPILLS/LEAKS WITH PLENTY OF WATER. NEUTRALIZE ANY FURTHER RESIDUE WITH SODA ASH OR LIME-NEUTRALIZATION REQUIRES VENTILATION DUE TO RELEASE OF CO₂. LG SPILLS: DIKE WITH SODA ASH & NEUTRALIZE.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

AVOID CONTACT WITH SKIN, EYES OR CLOTHING. AVOID BREATHING DUST.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection

USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE DUST OR MIST MAY BE GENERATED.

Ventilation

LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves

CHEMICAL IMPERVIOUS GLOVES.

Eye/Face Protection

CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

Other Protection

CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

Work Practices

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F):	214	Vapor Pressure (mmHg):	NOT APPLICABLE
Freezing Point (°F):	NOT ESTABLISHED	Vapor Density (Air=1):	NOT APPLICABLE
Solubility (H₂O):	COMPLETE	Specific Gravity (H₂O=1):	1.335
pH	3.5	Evaporation Rate:	NOT APPLICABLE
Appearance/Odor:	CLEAR AMBER OR LIGHT GREEN LIQUID WITH NO APPRECIABLE ODOR.		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	YES
Incompatible Material:	ALKALIS AND WATER REACTIVE MATERIALS SUCH AS OLEUM.
Hazardous Polymerization:	WILL NOT OCCUR UNDER NORMAL OPERATING CONDITIONS.
Decomposition Products:	SULFUR OXIDE GASES WHICH ARE OXIDIZERS & CORROSIVE. THE LOSS OF THESE GASES LEAVES A CAUSTIC RESIDUE.

SECTION 11 - TOXICITY INFORMATION

LD50 ORAL (rat) = 1930 mg/kg
LD50 ORAL (mouse) = 6207 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

14 PPM/36HR/FUNDULUS/FATAL/FRESH WATER 240 PPM/48HR/MOSQUITO FISH/TLM
LC50 LARGEMOUTH BASS = 250 PPM/96 HOURS

SECTION 13 - DISPOSAL CONSIDERATIONS

DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL.
DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM SULFATE)
Hazard Class: 8
UN/NA Number: UN3264
Packing Group: III
Subsidiary Hazard:
Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): 5000

SARA Title III Section 312:

Acute **Chronic** **Flammable** **Sudden Release of Pressure** **Reactive**

SARA Title III Section 313: No

SARA Extremely Hazardous Substance: No

HMIS HAZARD RATING

Health: 1 **Fire:** 0 **Reactivity:** 0
0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

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