

PURIFY SAFETY DATA SHEET ALUMINUM SULFATE SOLUTION

I. IDENTIFICATION

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II. HAZARDS INDENTIFICATION

May be corrosive to metals.

Causes serious eye damage.

Hazard Statements:

Classifications:
Corrosive to metals, Category 1
Serious eye damage, Category 1

Precautionary Statements:

- Prevention Keep in original container. Wear eye/face protection.
- Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Absorb spillage to prevent material damage. For specific treatment, see Section IV. First Aid Measures.



III. COMPOSITION / INFORMATION ON INGREDIENTS

Aluminum Sulfate AI (SO.) 10043-01-3 48	Chemical Name	Formula	CAS Number	%
	Aluminum Sulfate	$Al_2(SO_4)_3$	10043-01-3	48
Water H ₂ O 7732-18-5 Balance	Water	H ₂ O	7732-18-5	Balance

IV. FIRST AID MEASURES

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses.	Seek medical attention.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes.	Seek medical attention if you feel unwell.
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen.	Seek medical attention if you feel unwell.
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth.	Seek medical attention if you feel unwell.

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Protective Equipment and Firefighter Precautions: None

NFPA Hazard Rating: Health (Blue): Fire (Red):

Fire (Red):	0
Reactivity (Yellow):	0
Special Instructions (White):	None

NFPA Hazard Classification:

0=Least 1=Slight 2=Moderate 3=High 4=Extreme

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VI. ACCIDENTAL RELEASE MEASURES

Procedures if Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Containment / Cleaning:	Neutralize with appropriate alkali such as soda ash or slaked lime.

VII. HANDLING AND STORAGE

Precautions for Safe Handling:	Keep separated from incompatible substances. Handle only with equipment, materials, and supplies sepcified by their manufacturer as being compatible and appropriate for use with this product.
Conditions for Safe Storage:	Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate SII Product Bulletin for temperature recommendations. Do not store this material near food, animal feed, or drinking water. Store in a well-ventilated area. Store away from excessive heat (ex: steam pipes, radiators) and reactive materials. Keep container tightly closed when not in use.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT WORKPLACE CONTROL PARAMETERS			NTROL PARAMETERS	HMIS Rating: Health (Blue):	1
Components: CAS #: Value: Parameters:	Aluminum Su 10043-01-3 TWA 5 mg/m ³	ulfate		Flammability (Red): Physical Hazard (Yellow): PPE (White): Hazard Classification:	0 0 See PPE
Basis:	Basis: Aluminum in the form of soluble s		orm of soluble salts	0=Minimal 1=Slight 2=Moderate 3=Se	rious 4=Severe
		or other engineering controls to keep the low their respective threshold limit valies			
INDIVIDUAL	INDIVIDUAL PROTECTION MEASURES:				
Eye:			e chemical splash goggles ar npatible with respiratory prot	nd face shield. Eye protection worn must ection system employed.	be
Skin:		Glo		uld be worn whenever this material is ha replaced immediately if there is any indic nrough.	
Respiratory:			protection equipment require espirator, use NIOSH-approv	ed under normal conditions. When condit ed respirator.	ions warrant
Other Protec	tive Items:	are		nemically-resistant protective clothing and ash stations and safety showers are prox	
General Hyg	iene:		ctice good personal hygiene iking, smoking, or using the t	after using this material, especially before toilet.	re eating,

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	pH:	~ 2
Appearance:	Clear to slightly amber liquid or green depending on grade	Molecular Weight:	594 g/mol for Al ₂ (SO ₄) ₃ • 14H ₂ O
Odor:	None	Odor Threshold:	Data Not Available
Specific Gravity: (H ₂ O = 1)	1.29 - 1.34 @ 77°F / 25°C	Weight per Gallon:	11.1 lbs. @ 77ºF / 25ºC
Vapor Density: (Air = 1)	Similar to Water	Vapor Pressure:	Similar to Water
Boiling Point:	~ 214°F / 101°C	Freezing/Melting Point:	4°F / -16°C
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temperature:	Not Applicable
Solubility in Water:	Soluble	Other:	Not Applicable

X. STABILITY AND REACTIVITY

Chemical Stability:

Hazardous Reactions:

Conditions to Avoid:

Incompatible Materials:

Hazardous Decomposition Products:

N/A

Stable under normal or expected use.

N/A

Avoid exposure to excessive heat.

Avoid contact with acids and oxidizing agents.

Thermal decomposition may yield toxic oxides of sulfur.

XI. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Eyes, Skin, Ingestion, and Inhalation

Symptoms of Exposure:

Eye Contact:	Causes serious eye damage.
Ingestion:	May be harmful if swallowed.
Skin Contact:	May cause skin irritation.
Inhalation:	May be harmful if inhaled.
	May cause respiratory tract irritation.

Comments:

None

Carcinogenity:

NPT:	Not listed.
IARC:	Not listed.
OSHA:	Not regulated.

Experimental Results:

Ingredient:	Aluminum Sulfate
Species:	Rat
Test:	>5000 mg/kg
Route:	Oral
Results:	LD50

XII. ECOLOGICAL INFORMATION

Ingredient:	Aluminum Sulfate
Species:	Mosquitofish
Test:	253 ppm
Period:	96 hours
Results:	LC50

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal: Always dispose of material in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION			
Proper Shipping Name:	Corrosive Liquid, Acidic, Inorganic, n.o.s. (contains Aluminum Sulfate Solution)		
DOT Classification:	8	Packing Group:	Ш
Identification Number:	3264	Other Labels:	Corrosive

XV. REGULATORY INFORMATION Inventory Status: U.S. TSCA: Yes Korean TCCL: Yes Europe EINECS: Yes **Philippines PICCS:** Yes Yes Canadian DSL: Australian AICS: Yes Japan ENCS: Yes **U. S. Regulations:** International Regulations: SARA 302 TPQ: Not Listed Canada WHMIS: D-2B Toxic material causing other toxic effects. SARA 304 RQ: Not Listed EINECS: 233-135-0 SARA 313 List: Not Listed CERCLA (RQ): 5,000 lbs. Other Regulations: RCRA 261.33: Not Listed **California PROP 65:** Not Listed CWA 117: 5,000 lbs. FDA GRAS: 21 CFR 182.1125 CAA 112r (RMP): Not Listed SARA 311/312: Acute

NSF Certification:	Aluminum sulfate manufactured at Baton Rouge, LA; Calhoun, TN; Chickasaw,
	AL; Lake Charles, LA; Pasadena, TX; and West Point, MS is NSF-60 Certified.
	Maximum use in potable water is 150 mg/L.

Revision Notes:

Rev. 12/14/2018



PURIFY

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