



SAFETY DATA SHEET

Revision Date 14-Feb-2020

Revision Number 2

1. Identification				
Product Name	Aluminum sulfate hydrate			
Cat No. :	36294			
CAS-No Synonyms	17927-65-0 Sulfuric Acid Aluminum Salt Hydrate.			
Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet				
Company Alfa Aesar Thermo Fisher Scientific Chem 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	cals, Inc.			
Emergency Telephone Number During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.				

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



Precautionary Statements Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Dialuminum trisulfate hydrate	17927-65-0	100
Aluminum sulfate	10043-01-3	-

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	Causes severe eye damage.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Health 2	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions	Use personal protective eq formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust		
Environmental Precautions	Should not be released into the environment.				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.					
	7. Handling a	and storage			
Handling	Ensure adequate ventilatio	n. Avoid dust formation. Wear	personal protective		

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Aluminum sulfate		(Vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³	

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

inhalation.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Phys	sical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	slightly soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Al2S3O12.nH2O
Molecular Weight	342.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products.		
Incompatible Materials	Bases		
Hazardous Decomposition Products None under normal use conditions			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component		LD50 Oral LD50 Dermal LC5			LC50 Ir	halation
Aluminum sulfa	te	6207 mg/kg (Mouse) >5 g/kg (Rabbit)			Not	listed
Toxicologically Syne Products Delayed and immedia	-	No information avail		d long-term expo	sure_	
Irritation		Causes eye burns				
Sensitization		No information available				
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico

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Dialuminum trisulfate hydrate	17927-65-0	Not listed	Not listed	Not listed	Not listed	Not listed	
Aluminum sulfate	10043-01-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effects		No information available.					
Developmental Effect	cts	No information available.					
Teratogenicity		No information available.					
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		No information available					
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Aluminum sulfate	Not listed	LC50: = 27.9 mg/L, 96h static (Pimephales promelas) LC50: = 100 mg/L, 96h (Carassius auratus) LC50: = 37 mg/L, 96h static (Gambusia affinis)	Not listed	136 mg/L EC50 15 min 38.2 mg/L EC50 48h

Persistence and Degradability May persist based on information available.

Bioaccumulation/Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information				
DOT	Not regulated				
DOT _TDG IATA_	Not regulated				
IATA	ATA Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Dialuminum trisulfate hydrate	17927-65-0	-	-	-

Aluminum sulfate	10043-01-3	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Dialuminum trisulfate hydrate	17927-65-0	-	-	-	-	Х	-	Х	-
Aluminum sulfate	10043-01-3	Х	-	233-135-0	Х	Х	Х	Х	KE-01042

U.S. Federal Regulations

SARA 313	Not applicable
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SARA 311/312 Hazard Categories See section 2 for more information

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CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Aluminum sulfate	Х	5000 lb	-	-

Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

OSHA - Occupational Safety and Health Administration

CERCLA

Component		Hazardous Substances RQs	CERCLA EHS RQs	
Aluminum sulfate		5000 lb	-	
California Proposition 65	his product do	es not contain any Proposition 65 che	emicals.	

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U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Aluminum sulfate	Х	Х	X	-	-

U.S. Department of Transportation

U.S. Department of Homeland	This product
DOT Severe Marine Pollutant	Ν
DOT Marine Pollutant	Ν
Reportable Quantity (RQ):	N

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Security

No information available

16. Other information

Prepared By

Health, Safety and Environmental Department

	Email: tech@alfa.com www.alfa.com
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 17927-65-0.

Disclaimer

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