

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision Number 6

	1. Identification
Product Name	Aluminum Sulfate Hydrate
Cat No. :	A611-3
CAS-No Synonyms	17927-65-0 Sulfuric Acid Aluminum Salt Hydrate.
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use
Details of the supplier of the	safety data sheet_

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

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 p	hysician.							
Eye Contact	Rinse immediately with plen medical attention.	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention.							
Skin Contact	Wash off immediately with p call a physician.	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.							
Inhalation	Move to fresh air. If not brea symptoms occur.	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.							
Ingestion	Clean mouth with water and symptoms occur.	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.							
Most important symptoms and	Causes severe eye damage								
effects 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 Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available 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.									
NFPA Health 2	Flammability 0	Instability 0	Physical hazards N/A						

	6. Accidental release measures					
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Should not be released into the environment.					
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.						
	7. Handling and storage					
Handling	Ensure adequate ventilation. Avoid dust formation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.					
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.					

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	TWA: 2 mg/m ³

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

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	Long sleeved clothing.
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. Physical and chemical properties

Physical State	Solid	
Appearance	White	
Odor	Odorless	
Odor Threshold	No information available	
pH	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 Solubility Partition coefficient; n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight	er No information available slightly soluble No data available No information available Not applicable Al2S3O12.nH2O 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 Produc	ts 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

Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation			
Aluminum sull	fate	6207 mg/kg (M	ouse)	>5 g/kg (Rabbit)	No	Not listed			
oxicologically Syn	ergistic	No information	available						
Products									
Delayed and immed	iate effects	as well as chronic	effects from short a	and long-term expo	osure				
rritation		Causes eye bu	ırns						
Sensitization		No information	available						
Carcinogenicity		The table belo	w indicates whether	each agency has lis	ted any ingredient	as a carcinoge			
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico			
Dialuminum trisulfate hydrate	17927-65	5-0 Not listed	Not listed	Not listed	Not listed	Not listed			
Aluminum sulfate	10043-01		Not listed	Not listed	Not listed	Not listed			
Autagenic Effects		No information	available						
Reproductive Effect	S	No information	available.						
Developmental Effe	cts	No information	No information available.						
Teratogenicity		No information	No information available.						
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information	available						
Symptoms / effects	both acute	and No information	available						

Symptoms / effects, both acute and No information available

delayed

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 /	lgae	Freshwater Fish	Microtox	Water Flea			
Aluminum sulfate	Not listed		LC50: = 37 mg/L, 96h static (Gambusia affinis) LC50: = 100 mg/L, 96h (Carassius auratus)	Not listed	136 mg/L EC50 15 min 38.2 mg/L EC50 48h			
Persistence and Degradat	bility Ma	May persist based on information available.						
Bioaccumulation/ Accumulation No information		on available.						
Mobility	ls r	ot likely	mobile in the environment due its low water solubility.					
		13. D	isposal considera	tions				
Waste Disposal Methods	haz	ardous v	aste generators must determ vaste. Chemical waste gene ardous waste regulations to	rators must also consi				

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dialuminum trisulfate hydrate	-	-	-	-	-		-	Х	-	Х	-
Aluminum sulfate	Х	Х	-	233-135-0	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

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

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Aluminum sulfate	5000 lb	-	
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California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Revision Date	18-Jan-2018	
Print Date	18-Jan-2018	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS