

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 7

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. Food, drug, pesticide or biocidal product use.	

Details of the supplier of the safety data sheet

Company Fisher Scientific Company 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 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	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	No information available
Upper Lower	No data available No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	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 rel	lease 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, closedUpcontainers for disposal.				
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	7. Handling and storage
Handling	Ensure adequate ventilation. Avoid dust formation. Wear personal protective equipment/face protection. 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. Incompatible Materials. Bases.

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	

Legend

OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and 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	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. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

- Solid White Odorless No information available No information available No data available Not applicable Not applicable Not applicable No information available No data available No data available No information available
- No data available No information available Not applicable No information available slightly soluble No data available No information 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 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 Information				
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Aluminum sulfate	6207 mg/kg (Mouse)	6207 mg/kg (Mouse) >5 g/kg (Rabbit) Not		
Toxicologically Synergistic	No information available			
Products				
Delayed and immediate effects	as well as chronic effects from	short and long-term exposure	<u>e</u>	
Irritation	Causes eye burns			
Sensitization	No information available			
Caroinagoniaity	The table below indicates y	The table below indicates whether each agency has listed any ingredient as a carcinogen.		
Carcinogenicity	The lable below indicates w	memer each agency has listed a	any ingredient as a carcinogen.	

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
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 Effects	6	No information ava	ailable.			
Teratogenicity		No information available.				
STOT - single exposur STOT - repeated expo	T - single exposure None known T - repeated exposure None known					
Aspiration hazard	spiration hazard No information available					
Symptoms / effects,both acute and No information available lelayed						
Indocrine 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	Freshw	vater Algae	Freshwater Fish	Microtox	Water Flea		
Aluminum sulfate	Not listed		LC50: = 27.9 mg/L, 96h static (Pimephales promelas)	Not listed	136 mg/L EC50 15 min 38.2 mg/L EC50 48h		
Persistence and Degradability		May persist b	May persist based on information available.				
Bioaccumulation/ Accumu	lation	No informatio	No information available.				
Mobility		Is not likely m	nobile in the environment d	lue its low water solubility.			
		13. Di	sposal considera	ations			
Waste Disposal Methods	ste Disposal MethodsChemical waste generators must determine whether a discarded chemical is class hazardous waste. Chemical waste generators must also consult local, regional, ar national hazardous waste regulations to ensure complete and accurate classification				local, regional, and		
		14. T	ransport informa	ation			
DOT		Not regulated	1				

DOT	Not regulated
TDG	Not regulated
ΙΑΤΑ	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 US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

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

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

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 sulfate	Х	5000 lb	-	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Aluminum sulfate	5000 lb	-

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):YDOT Marine PollutantNDOT Severe Marine PollutantN

U.S. Department of Homeland This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dialuminum trisulfate hydrate	17927-65-0	Listed	Not applicable	Not applicable	Not applicable
Aluminum sulfate	10043-01-3	Listed	Not applicable	Not applicable	Not applicable
Commonant	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
Component	CAS NO	(2012/18/EC) -	(2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	(Hazardous Waste)
Dialuminum trisulfate hydrate	17927-65-0	Not applicable	Not applicable	Not applicable	Not applicable
Aluminum sulfate	10043-01-3	Not applicable	Not applicable	Not applicable	Not applicable

Safety, health and environmental regulations/legislation specific for the substance or mixture

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 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