Aluminum Nitrate, 9-Hydrate



Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Aluminum Nitrate, 9-Hydrate Science education applications Aluminum Trinitrate: Aluminum Nitrate, Nonahydrate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes skin irritation. Causes serious eye irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity - Oral Category 5

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Aluminum Nitrate, 9-Hydrate	7784-27-2	100

N/A

Section 4

First Aid Measures

Emergency and First Aid Procedures					
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.				
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.				
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.				
Section 5	Firefighting Procedures				

Extinguishing Media: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam.

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Aluminum oxide dust,, Nitrogen oxides

			9			
Section 6		Spill or Leak	Procedures			
Steps to Take in (Released or Spill	ed: e r t e g f f t r	Exposure to the spilled mate equipment recommendation necessary based on special the quantity of the spill, the a employees in the area respond generation of dusts during c Prevent the spread of any sp to do so. Wear complete and recommendation of Section granulated clay. Gather and Vacuum or sweep up mater	s found in Section 8 of circumstances create area in which the spill onding to the spill. Ver lean-up. pill to minimize harm to d proper personal proto 8 at a minimum. Dike store in a sealed cont	f this SDS. Additional p d by the spill including; occurred. Also conside ntilate the contaminated o human health and the ective equipment follow with suitable absorben ainer pending a waste	recautions may be the material spilled, r the expertise of d area. Avoid the e environment if safe ving the t material like	
Section 7		Handling ar	nd Storage			
Handling:		ter handling. Wear protectiv sed in a cool, well-ventilated		thing/eye protection/fa	ce protection. Keep	
Storage: Storage Code:		tly closed in a cool, well-ve				
Section 8		Protection In	nformation			
		ACG		OSHA		
<u>Chemical Name</u> No data available		(TWA) N/A	<u>(STEL)</u> N/A	<u>(TWA)</u> N/A	(<u>STEL)</u> N/A	
Control Parameter Engineering Meas		No exposure limits exis might be required to ma general room ventilation levels.	aintain operator comfor	t under normal condition	ons of use. Good	
Personal Protecti Respiratory Prote	ive Equipment (PPE): ection:	Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Respiratory				
Eye Protection:		protection may be required in addition to ventilation depending upon conditions of use. Wear chemical splash goggles when handling this product. Have an eye wash station				
Skin Protection:		available. Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:		Nitrile				
Section 9		Physica	al Data			

Formula: AI(NO3)3•9H2O Molecular Weight: 375.13 g/mol Appearance: Solid Odor: No data available Odor Threshold: No data available pH: 2.5 - 3.5 at 50 g/l at 25 °C (77 °F) Melting Point: 73 Č Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A N/A

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid:

Reactivity Data

No data available Stable under normal conditions. None known.

Incompatible Materials:	;
Hazardous Decomposition Products:	l
Hazardous Polymerization:	١

Section 11

Strong reducing agents, Strong acids Nitrogen oxides, Aluminum oxide dust,, Metals (powdered) Will not occur

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion Gastrointestinal, No data available	n, eye or skin contact.				
Acute Toxicity: Chemical Name Aluminum Nitrate, 9-Hy	drate	CAS Number 7784-27-2	Oral LD50 Oral LD50 Rat 3671 mg/kg			nhalation LC50 t determined
Carcinogenicity: Chemical Name Aluminum Nitrate, 9-Hy	drate	CAS Number 7784-27-2	IARC Listed	NT Not listed	-	OSHA ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	Mutagenicity:No evidence of a mutagenic effect.Teratogenicity:No evidence of a teratogenic effect (birth defect).Sensitization:No evidence of a sensitization effect.Reproductive:No evidence of negative reproductive effects.Target Organ Effects:See Section 2					
Section 12		Ec	ological Da	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	al is not expected to b	be harmful to the e	ecology.		
Chemical Name N/A		CAS Number E 7784-27-2	Eco Toxicity			
Section 13		Disp	osal Inform	ation		
Disposal Methods: Waste Disposal Code	contact a permitted waste disposer (TSD) to assure compliance.					
Section 14		Trans	port Inforn	nation		
Ground - DOT Proper Not dangerous goods	Shipping Name:			ber Shipping Nan or air transport by		
Section 15		Regul	atory Infori	mation		
TSCA Status:	A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.					
Chemical Name	CAS Numbe	§ 313 Name r	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ

Additional Information

No data available	7784-27-2	No	No	No	No	No

Section 16

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number	NTP OSHA PEL	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm RCRA	Parts per million
DOT	Compensation, and Liability Act U.S. Department of Transportation	SARA	Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act
IARC N/A	International Agency for Research on Cancer Not Available	TLV TSCA IDLH	Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health