

Section 1. Identification	tion	
Product Identifier	Aluminium Sulfate	Version: 6 Effective Date: 25 January 2021
Other Means Of Identification	Alum	Directive Dute: 23 Junuary 2021
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Pulp & paper industry, textile pr soaps, greases, drugs and cosme	ocessing, water treatment, food additive, tics. No restrictions.
Restrictions on use Product Family Emergency Phone 1	None Inorganic Salt -855-887-2055 Monday - Friday 8	3:00am - 4:30pm MST

Section 2. Hazard Identifica	tion
Hazard Classification	
Health Hazards	Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 1
Signal Word	Danger
Hazard Statement	Causes skin irritation. Causes serious eye damage.
Precautionary Prevention	Wash hands thoroughly after handling. Wear protective gloves, and
Statement	eye & face protection.
Precautionary Response	IF ON SKIN: Wash with plenty water.
Statement	Specific treatment: Do not induce vomiting unless directed by medical personnel.
	If skin irritation occurs, seek medical attention. Remove contaminated clothing and launder before reuse.
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical attention
Precautionary Storage Statement	No statements.



Precautionary Disposal Statement	Dispose of contents/containers in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Aluminium sulphate	Alum	16828-12-9	100

Section 4. First-Aid Measu	ires	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.	
Skin Contact	Flush area with water. If irritation persists, seek medical attention.	
	Launder clothing before reuse.	
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek	
	immediate medical attention.	
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek	
	immediate medical attention.	
Most Important	May cause abdominal pain, nausea, and or vomiting. Concentrated	
Symptoms and Effects	solutions (over 20%) can cause burns of the mouth, bleeding stomach,	
Both Acute and Delayed	incoordination, muscle spasms, and/or kidney injury.	
	May cause irritation and inflammation of the eye. Concentrated	
	solutions (over 20%) may cause severe eye damage or burns.	
Immediate Medical	Aluminum soluble salts may cause gastroenteritis if ingested.	
Attention and Special	Treatment includes the use of demulcents.	
Treatment		

Section 5. Fire-Fighting Measures				
Suitable and Unsuitable	e and Unsuitable Use extinguishing media suitable for surrounding fire.			
Extinguishing Media				
Hazardous Combustion	Oxides of sulphur, aluminium oxides, and corrosive fumes.			
Products				
Specific Hazards Arising	Under fire conditions greater than 650°C (1202°F), product			
From The Product	decomposes to give off sulfur trioxide, an oxidizing agent which will support combustion. Sulfur trioxide will react with water to form sulfuric acid.			



Special Protective Equipment and Precautions For Fire-Fighters Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures		
Personal Precautions,	Gloves, coveralls, safety glasses.	
Protective Equipment and	Secure area. Evacuate unnecessary personnel. Minimize the generation	
Emergency Procedures	of dust.	
Environmental	Do not allow spilled material to enter sewers and surface watercourses.	
Precautions		
Methods and Materials for	Sweep up spilled material, being careful not create dust. Place material	
Containment and Clean-	in a suitable container for disposal. Neutralize residues with lime	
Up	slurry, limestone or soda ash. This will generate carbon dioxide	
	requiring additional ventilation.	

Section 7. Handling and Storage		
Precautions For Safe	Handle with care. Avoid inhaling dust. Avoid contact with skin and	
Handling	eyes.	
Conditions For Safe	Store in a cool, DRY well ventilated area. Keep containers closed	
Storage	when not in use. Keep away from incompatible materials.	

Section 8. Exposure Controls / Personal Protection				
Control Parameters Aluminium sulphate	TWA: 8 Hr 2 mg/m ³	STEL: 15 min	Ceiling	IDLH *
	* Immediately I	Dangerous to Life and	Health	
Exposure Controls	Local exhaust vo	entilation		
Appropriate Engineering	Safety shower and eye wash station.			
Controls				
Individual Protective	If exposure limit	ts are exceeded:		
Measures				
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resista	ant coveralls, gloves		
Respiratory Protection	Air purifying res	spirator fitted with HE	PA filters	



Section 9. Physical and Chemical Properties		
Appearance	White to off white, powder or granules	
Odour	No odour	
Odour Threshold	Not applicable.	
pH	>2.9 @ 5% solution.	
Flash Point	No data	
Boiling Point and Boiling Range	No data	
Melting Point and Freezing Point	86 °C	
Evaporation Rate	Not applicable.	
Flammability (solid, gas)	Not flammable	
Upper and Lower Flammability or	No data	
Explosive Limits		
Vapour Pressure	Not applicable.	
Vapour Density	Not applicable.	
Relative Density	1.61	
Solubility	Soluble	
Partition co-efficient, n-	No data	
Octanol/Water		
Auto-ignition Temperature	No data	
Decomposition Temperature	No data	
Viscosity	Not applicable	

Section 10. Stability and Reactivity			
Reactivity	Alkalis and water reactive materials, such as oleum, cause exothermic		
	reactions.		
Chemical Stability	Stable		
Possibility of Hazardous	Will not occur		
Reactions			
Conditions to Avoid	Temperatures above 760 °C.		
Incompatible Materials	Contact with water forms sulphuric acid. Water reactive materials		
	such as oleum cause exothermic reactions. Strong bases, strong		
	oxidizing agents, and alkalis.		
Hazardous Decomposition	Not expected to decompose under normal conditions of use.		
Products	At temperatures above 760 °C, sulphur oxide gases are released which		
	are toxic, corrosive and are oxidizers. The remaining residues are		
	caustic. The trioxide is also a fire hazard, Oxides of aluminium.		
	May corrode ferrous metals and mild steel in the presence of moisture.		



Section 11. Toxicological Info	rmation		
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminium sulphate	>9g/kg (Rat)		
Likely Routes of Exposure			
Skin:	May cause irritation with prolonged and repeated contact as either		
Eyes:	powder or in liquid form. May cause mild to severe irritation or burns as the dust becomes acidic if in contact with water.		
Inhalation:			the respiratory tract.
Ingestion:			tive tract leading to vomiting,
			are can lead to incoordination,
A outo Tovioity Estimates		and kidney effects.	anah as alaum sausa
Acute Toxicity Estimates (ATE)	exothermic read		, such as oleum, cause
STOT (Specific Target	Not classified	LUOIIS	
Organ Toxicity) – Single	Not classified		
Exposure			
Aspiration Toxicity	Not classified		
STOT (Specific Target	Not classified		
Organ Toxicity) - Repeated			
Exposure			
Skin Corrosion / Irritation	Irritant		
Serious Eye Damage /	Serious eye dan	nage	
Irritation			
Respiratory or Skin	Not classified		
Sensitization Carcinogenicity	Not listed.		
Carcinogenicity Reproductive Toxicity	THUL HSIEU.		
- Sexual Function and	Not classified		
Fertility	1 tot classifica		
- Development of	Not classified		
Offspring			
- Effects on or via	Not classified		
Lactation			
Germ Cell Mutagenicity	Not classified		
Interactive Effects	None known		
Other Information	None known		



Section 12. Ecological Information	
Ecotoxicity	No data
Persistence and	No data
Degradability	
Bioacumulative Potential	No data
Biodegradability	No data
Mobility in Soil	Not available
Other Adverse Effects	The products of degradation are more toxic than the original products.
	Degradation products are: carbon monoxide, dioxide, and oxides
	of sulphur. This can lead to acidic conditions and the potential release
	of trace metals.

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Information		
UN Number	3077	
UN Proper Shipping Name	Environmentally hazardous substance, Solid, N.O.S. (Aluminium sulfate)	
Transport Hazard	9	
Class(es)		
Packaging Group	III	
Environmental Hazards	Not applicable	
Bulk Transport	Not applicable	
Special Precaution	Not applicable	
DOT Erg#	171	

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances
	List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances
	Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information



	<u> </u>
NFPA Rating	Health-2/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	17 August, 2012

Date of Latest Revision: 25 January 2021

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