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**ALUMINIUM
SULPHATE 8.0%**

SDS238W

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION	Aluminium Sulfate Solution (8% +/- 0.25 as % Al ₂ O ₃); Aluminium Sulfate Liquid conforms to BS EN 878:2016
Identification on the label / trade name	Aluminium Sulfate
1.2 USE OF THE SUBSTANCE / PREPARATION	Used for the treatment of water intended for human consumption
Uses advised against	Any other use
1.3 COMPANY/UNDERTAKING IDENTIFICATION	Clinty Chemicals Ltd 215 Doury Road Ballymena Co. Antrim Northern Ireland BT43 6SS
E-mail	info@clintychemicals.co.uk
1.4 EMERGENCY TELEPHONE	028 2564 1618

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION

2.1.1 Classification according to Directive 67/548/EEC or 1999/45 as amended

Classification	Category	Risk Phrases
Xi Irritant	-	R36 Irritating to eyes

2.1.2 Classification according to Regulation (EC) No 1272/2008 as amended

Classification	Category	Hazard Statement
Physical Hazard Corrosive to metals	Category 1	H290 May be corrosive to metals
Health Hazard Eye Effects	Category 1	H318 Causes serious eye damage




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2.2 LABEL ELEMENTS

2.1.1 Labelling according to Regulation (EC) No 1272/2008 as amended

Contains	Aluminium Sulfate
Hazard Pictograms	
Signal Word	Warning
Hazard Statements	H290 May be corrosive to metals H318 Causes serious eye damage
Precautionary Statements	
Prevention	P261 Avoid breathing spray P264 Wash skin thoroughly after handling P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
Response	P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists: Get medical advice/attention.
Storage	P406 Store in corrosive resistant container with a resistant inner liner
Disposal	P501 Dispose of contents/container in accordance with local regulation
Hazardous Components	10043-01-3 Aluminium Sulfate
Further information	The product is classified and labeled in accordance with EC directives or respective national laws
Other hazards	H290 Corrosive to metals only applies if pH <2



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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 PREPARATION / MIXTURE RELATED INFORMATION

Description Aluminium Sulfate Solution
(8% +/- 0.25% Al₂O₃)

Hazardous Ingredients

Chemical Name	EC No / REACH Registration Number	CAS No	Amount (%)	Classification according to Regulation (EC) No 1272/2008 – CLP		Classification according to 67/548/EEC or 1999/45/EC
				Hazard Class / Hazard Category	Hazard Symbol	
Aluminium Sulfate Al ₂ (SO ₄) ₃ nH ₂ O	233-135-0 / 05-2116762006-50	10043-01-3	8% +/- 0.25 as % Al ₂ O ₃	Eye Damage Category 1: H318		Xi Irritant: R41

Composition comments

The full text for all R- and H-phrases is displayed in section 16

4. FIRST AID MEASURES

4.1 GENERAL INFORMATION

P308/P313 If exposed or concerned: get medical advice/attention
- No hazards which require special first aid measures

4.2 DESCRIPTION OF FIRST AID MEASURES

IN CASE OF INHALATION

P304 IF INHALED: Move to fresh air
- Call a physician if symptoms develop or persist

IN CASE OF SKIN CONTACT

P361 Remove/Take off immediately all contaminated clothing.
P302 + IF ON SKIN: Wash with plenty of soap and water.
P352
P333 + If skin irritation or rash occurs: Get medical advice/attention.
P313

IN CASE OF EYE CONTACT

P305 + IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P351 +
P338



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- If possible use lukewarm water. Consult a physician. Do not rub the eyes as this can cause mechanical irritation. Continue rinsing eyes during transport to hospital

IN CASE OF INGESTION

- P301 + P330 + P331 IF SWALLOWED: rinse mouth with water. Do NOT induce vomiting.

- Call a physician if symptoms develop or persist

- 4.3 **MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED** Corrosive effects, May cause irreversible eye damage

- 4.4 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED** Rinse with plenty of water

5. FIRE FIGHTING MEASURES

- 5.1 **SUITABLE EXTINGUISHING MEDIA** Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2 **EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS** None known
- 5.3 **SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES** Heating above the decomposition temperature (>600 °C) will release toxic gases - sulphur oxides (SO_x)
- 5.4 **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 **PERSONAL PRECAUTIONS**
P280 Wear suitable protective gloves/protective clothing/eye protection/face protection
P308/P313 If exposed or concerned: get medical advice/attention

6.2 ENVIRONMENTAL PRECAUTIONS

Protect drains from potential spills to minimize contamination. Do not wash product into drainage system. Contact the appropriate authorities in all cases where the consequences cannot be quickly and effectively controlled.

6.3 METHODS FOR CLEANING UP

In case of spill, stop the source of the leak or release



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Contain and recover spilled material using sand or other suitable inert absorbent material. Sweep up and place in a disposable container. Dilute residues with water and then neutralize with lime or limestone powder to a solid consistency. Shovel or sweep up. Must be disposed of in accordance with local and national regulations

Scrub contaminated area with water, using a stiff broom. Prevent contamination of groundwater or surface water.

It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

7. HANDLING & STORAGE

7.1 HANDLING

7.1.1 Safe handling: Protective measures

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. If skin contact is likely, wear impervious protective clothing and gloves. High standards of personal hygiene and plant cleanliness must be maintained. Wash hands thoroughly after use, and always wash hands before eating, drinking and smoking and before and after using the toilet. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water.

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity

7.1.2 Safe handling: Technical measures

Danger for slipping. The work place and work methods shall be organized in such a way that direct contact with the product is prevented or minimized. For personal protection see section 8.

7.1.3 Safe handling: Measures to protect the environment

The design, construction and maintenance of bulk storage and handling facilities are covered by codes of the practice published by the Health and Safety Executive and the Environment Agency.

7.1.4 Safe handling: Precautions against fire and explosion

Not combustible. No specific precautions

7.2 STORAGE

P102 Keep out of reach of children
P233 Keep container tightly closed
P234 Keep only in original container

7.2.1 Technical measures and storage conditions

Store in rubber lined mild steel or plastic tanks. Avoid freezing. Keep away from incompatible materials.



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7.2.2 Packaging materials

Suitable material: plastic (PE, PP, PVC), fiberglass-reinforced polyester, epoxy-coated concrete, titanium, acid proof or rubber-coated steel

7.3.3 Requirements for storage rooms and vessels

The design, construction and maintenance of bulk storage and handling facilities are covered by codes of the practice published by the Health and Safety Executive and the Environment Agency.

7.3.4 Materials to avoid

Avoid contact with unalloyed steel or galvanized surfaces, non-acid proof metals (for example aluminium, copper and iron), hypochlorites, chlorites, sulphites, bases

7.3.5 Other data

Stable under recommended storage conditions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Occupational Exposure Limits
Ireland
United Kingdom

Component	CAS No	Type	Value	Form
Aluminium Sulfate	10043-01-3	TWA	2 mg.m ⁻³	Soluble aluminium salts

Derived No-Effect Level (DNEL)

Component	CAS No	Type	Route	Value	Form
Aluminium Sulfate	10043-01-3	Consumer	Oral	3.4 mg.kg ⁻¹ bw/day	Long term systemic effects
		Industry	Inhalation	20.2 mg.m ⁻³	Long term systemic effects



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Predicted No-Effect Concentration (PNEC)

Component	CAS No	Type	Route	Value	Form
Aluminium Sulfate	10043-01-3	Not applicable	STP Water Water	20 mg.l ⁻¹ 0.3 µg.l ⁻¹ 0.03µg.l ⁻¹	- Freshwater Marine water

8.2 EXPOSURE CONTROLS

8.2.1 Occupational exposure controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Good general ventilation should be sufficient to control airborne levels. Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Ventilation should effectively remove and prevent build-up of any aerosols or mists generated from the handling of the product

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

8.2.1 Instructional measures to prevent exposure

Where there is potential for exposure: provide specific activity training to operators to minimise exposure

8.2.3 Organisational measures to prevent exposure

Regularly inspect, test and maintain all control measures.

8.2.4 Technical measures to prevent exposure

Consider technical advances and process upgrades (including automation) for the elimination of releases. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down systems and clear transfer lines prior to breaking containment. Clean/flush equipment, where possible, prior to maintenance. Clear up spills immediately and dispose of wastes safely. Wash thoroughly after handling

8.3 PERSONAL PROTECTION EQUIPMENT

Respiratory protection

Respiratory protection is not required under normal handling conditions. If aerosols or mist are formed, use half mask with dust filter P2

Hand protection

Compatible chemical resistant gloves, preferably gauntlet type (PVC or neoprene) (EN374)



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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Break through time: > 480 min

Eye protection

Tightly fitting safety goggles or face-shield (EN166)

Eye wash fountain is recommended

Body protection:

Wear chemical resistant overalls / suit and rubber boots

9. PHYSICAL & CHEMICAL PROPERTIES

Parameter	Units	Value	Comment
Appearance/Physical State		Liquid	Aqueous solution of low volatility
Appearance/Colour		Colourless to yellow clear liquid	
Odour		Not significant	
pH		Acidic	
Crystallisation point	°C	- 7	for a typical solution of aluminium content of 42.4 g/kg of solution
Boiling point	°C	> 100	
Density (at 15°C)	g/cm ³	1.314 – 1.324	
Vapour pressure	kPa	Not applicable	In accordance with column 2 of REACH Annex VII, the study does not need to be conducted
Viscosity at 40°C	mPa.s	8.8 – 40	
Partition coefficient		Not applicable	Inorganic compound
Water solubility		Completely soluble	Miscible
Flash point	°C	Not applicable	In accordance with column 2 of REACH Annex VII, the study does not need to be conducted; inorganic compound.
Auto flammability	°C	Non flammable	Substance is non-flammable



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Flammability	%	Non flammable	Substance is non-flammable
Explosiveness		Not applicable	
Oxidising properties		Not oxidising	
Thermal Decomposition	°C	650	

10. STABILITY & REACTIVITY

10.1 REACTIVITY

Corrosive to metals

10.2 CHEMICAL STABILITY

Stable under normal conditions

10.3 CONDITIONS TO AVOID

Avoid temperatures below crystallization range.
Avoid storage at high temperatures

10.4 MATERIALS TO AVOID

Avoid contact with unalloyed steel or galvanized surfaces, non-acid proof metals (for example aluminium, copper and iron), hypochlorites, chlorites, sulphites, bases

Reacts violently with strong alkaline substances. This product may react with reducing agents. Do not mix with other chemicals

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

When boiled to dryness or heated above 650°C, toxic and corrosive fumes of sulphur dioxide and trioxide are liberated

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

RTECS NUMBER WS5696000 (Aluminium Sulfate)

ACUTE TOXICITY

ORAL LD₅₀ / Oral / Rat >2000 mg.kg⁻¹
Not classified as harmful if swallowed

DERMAL LD₅₀ / Dermal / Rabbit >5000 mg.kg⁻¹
Not classified as harmful to health

INHALATION LC₅₀ / Inhalation / Rat >5 mg.l⁻¹
No known significant effects or critical hazards.,
Read-across (Analogy), CAS-No 39290-78-3



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IRRITATION AND CORROSION

EYE IRRITATION

Eyes: rabbit/OECD Test Guideline 405: Severe eye irritation. May cause irreversible eye damage

SKIN IRRITATION

Skin: rabbit/OECD Test Guideline 404: No skin irritation.
Repeated or prolonged skin contact may cause: Skin irritation, dry skin

SKIN SENSITISATION

Aluminium Sulfate:
guinea pig/OECD Test Guideline 406
Read-across (Analogy)
CAS-No 1327-41-9
Not sensitizing

LONG TERM TOXICITY

REPEATED DOSE TOXICITY

Oral/rat/OECD Test Guideline 422:
NOAEL: 562 mg.kg⁻¹
bw/day Systemic toxicity Read-across (Analogy)
CAS-No. 1327-41-9

NOAEL: 90 mg.kg⁻¹
Remarks: bw/day Calculated as AI

Oral/rat/OECD Test Guideline 422:
NOAEL: 112 mg.kg⁻¹
bw/day Local effects Read-across (Analogy) CAS-
No. 1327-41-9

NOAEL: 18 mg.kg⁻¹
Remarks: bw/day Calculated as AI

CARCINOGENICITY

Oral / Rat / 2 years:
Did not show carcinogenic effects in animal experiments

MUTAGENICITY

Mutagenicity (Salmonella typhimurium reverse mutation assay)/AMES test/OECD Test Guideline 471:

Result: negative
Metabolic activation: with and without

In vitro mammalian cells/micronucleus test/OECD Test Guideline 487:

Result: negative
Metabolic activation: with and without



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In vitro gene mutation study in mammalian cells/Lymphoma/OECD Test Guideline 476:
Result: negative
Metabolic activation: with and without

REPRODUCTIVE TOXICITY

Oral/rat/female/Reproductive effects/OECD Test Guideline 452:
NOAEL: 3.225 mg.kg⁻¹
NOAEL F1:
bw/day Read-across (Analogy) CAS-No. 31142-56-0
Not believed to be toxic for reproduction.

Oral/rat/female/Reproductive effects/OECD Test Guideline 452:
NOAEL: 300 mg.kg⁻¹
NOAEL F1:
bw/day Calculated as AI Read-across (Analogy) CAS-No. 31142-56-0

Oral/rat/male and female/Developmental toxicity test/OECD Test Guideline 422:
NOAEL: 1.000 mg.kg⁻¹
NOAEL F1: 1.000 mg.kg⁻¹
bw/day Read-across (Analogy) CAS-No. 1327-41-9
Not believed to be toxic for reproduction. In animal studies, did not interfere with reproduction.

Oral/male and female/OECD Test Guideline 422:
NOAEL: 90 mg.kg⁻¹
NOAEL F1: 90 mg.kg⁻¹
bw/day Calculated as AI Read-across (Analogy) CAS-No. 1327-41-9

TERATOGENICITY

Oral/rat/OECD Test Guideline 452: NOAEL: 323 mg.kg⁻¹
Mother: 3.225 mg.kg⁻¹ bw/day Read-across (Analogy) CAS-No. 31142-56-0

Oral/rat/OECD Test Guideline 452: NOAEL: 30 mg.kg⁻¹
Mother: 300 mg.kg⁻¹ bw/day Calculated as AI CAS-No. 31142-56-0 Read-across (Analogy)

TARGET ORGAN

The substance is not classified.
STOT - repeated exposure.
The substance is not classified.
STOT - single exposure.



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12. ECOLOGICAL INFORMATION

12.1 BASIS FOR ASSESSMENT

This material is not classified as dangerous for the environment. At environmentally relevant pH 5.5 – 8, the solubility of aluminium is low. Aluminium salts dissociate with water resulting in rapid formation and precipitation of aluminium hydroxides. At pH <5.5, the free ion (Al^{3+}) becomes the prevalent form, the increased availability at this pH is reflected in higher toxicity. At pH 6.0–7.5, solubility declines due to the presence of insoluble $Al(OH)_3$. At higher pH (pH >8.0), the more soluble $Al(OH)_4^-$ species predominate, which again increases availability. Aluminium salts must not be released to rivers and lakes in an uncontrolled way and pH variations around 5 - 5.5 should be avoided

12.2 MOBILITY

Water solubility: Completely soluble (20 °C)

12.3 PERSISTENCE / DEGRADABILITY

The methods for determining the biological degradability are not applicable to inorganic substances

12.4 BIOACCUMULATION

The product is not expected to bioaccumulate.

Partition coefficient: n-octanol/water: Not applicable., inorganic compound, In accordance with column 2 of REACH Annex VII, the study does not need to be conducted.

12.5 ECOTOXICITY

LC50/96 h/Danio rerio/semi-static test/OECD Test Guideline 203: > 562 mg.l⁻¹
 NOEC/96 h/Danio rerio/semi-static test/OECD Test Guideline 203: > 562 mg.l⁻¹
 LC50/96 h/Danio rerio/semi-static test/OECD Test Guideline 203: > 0,247 mg.l⁻¹
 Calculated as Al Maximum soluble concentration under the test conditions.

EC50/48 h/Daphnia magna (Water flea)/semi-static test/OECD Test Guideline 202: > 90 mg.l⁻¹
 NOEC/48 h/Daphnia magna (Water flea)/semi-static test/OECD Test Guideline 202: > 90 mg.l⁻¹
 LC50/48 h/Daphnia magna (Water flea)/OECD Test Guideline 202: > 0,176 mg.l⁻¹
 Calculated as Al Maximum soluble concentration under the test conditions.

EC50/72 h/Pseudokirchneriella subcapitata (green algae)/static test/OECD Test Guideline 201: 24 mg.l⁻¹
 EC50/72 h/Pseudokirchneriella subcapitata (green algae)/static test/OECD Test Guideline 201: 3.8 mg.l⁻¹ Calculated as Al
 NOEC/72 h/Pseudokirchneriella subcapitata (green algae)/static test/OECD Test Guideline 201: 1.7 mg.l⁻¹
 NOEC/72 h/Pseudokirchneriella subcapitata (green algae)/static test/OECD Test Guideline 201: 0.27 mg.l⁻¹ Calculated as Al

12.6 OTHER ADVERSE EFFECTS

May lower the pH of water and thus be harmful to aquatic organisms



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13. DISPOSAL CONSIDERATIONS

13.1 APPROPRIATE DISPOSAL

Classified as hazardous waste.

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Must be disposed of in accordance with local and national regulations. Thoroughly cleaned packaging material may be recycled.

13.2 CONTAMINATED PACKAGING

Packages that cannot be cleaned must be disposed of the same way as the unused product. Must be disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

UN No 3264

14.1 LAND TRANSPORT (ADR/RID)

UN Proper Shipping Name (PSN) Corrosive liquid, acidic, inorganic, NOS (Aluminium Sulfate)
Class 8
Packing Group III
Risk Code 80
Labels 8

14.2 SEA TRANSPORT (IMDG-Code)

UN Proper Shipping Name (PSN) Corrosive liquid, acidic, inorganic, NOS (Aluminium Sulfate)
Class 8
Packing Group III
Labels 8
Environmentally Hazardous Not a Marine Pollutant

14.3 AIR TRANSPORT (ICAO-IATA/DGR)

UN Proper Shipping Name (PSN) Corrosive liquid, acidic, inorganic, NOS (Aluminium Sulfate)
Class 8
Packing Group III
Labels 8



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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Other regulations

No restrictions identified other than those already covered in regulations

15.2 EU REGULATIONS CHEMICAL SAFETY ASSESSMENT

Use for the treatment of water intended for human consumption

16. OTHER INFORMATION

16.1 RELEVANT R- AND H- PHRASES IN SECTION 3 (NUMBER AND FULL TEXT):

H318
R41

Causes serious eye damage
Risk of serious damage to eyes