

Safety Data Sheet

Hazardous, Non Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name: Aluminium Sulphate

Synonyms

Aluminum sesquisulfate
Aluminum trisulfate
Cake alum

Recommended Use: Hydrated grades as Alum are high volume commercial chemicals. Sizing paper, lakes, alums, dyeing mordant, agent in fire fighting foams, cloth fireproofing, white leather tannage, pH control in paper industry, waterproofing agent for concrete, deodorizer and decolouriser in petroleum refining, sewage precipitating agent and for water purification. Medical use: Astringent, treatment of jellyfish stings.

Supplier: Clark Products
Company No.:
Street Address: 75 Niven Street Onekawa
Napier 4110 New Zealand
Telephone: 06 8433163
Facsimile: 06 8432958
Email: orders@clarkproducts.co.nz

Emergency Telephone Number: 0800 CHEMCALL (0800 243 622)

2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of EPA New Zealand GHS 7.

HSNO Approval Code: HSR003958



Signal Word

Warning

Hazard Classifications

Acute Toxicity - Oral - Category 4
Corrosive to Metals - Category 1
Skin Irritation - Category 2
Serious Eye Irritation - Category 2
Long Term Hazards to the Aquatic Environment - Category 2

Hazard Statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Product Name: Aluminium Sulphate

Reference No: SCA0075368009

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Version:

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P234	Keep only in original packaging.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing including eye/face protection.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on product label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.

Storage Precautionary Statement

P406	Store in corrosive resistant insert appropriate compatible material container with a resistant inner liner.
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Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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DANGEROUS GOOD CLASSIFICATION

Classified as Non-Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

0. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Sulfuric acid, aluminium salt (3:2) hydrolysis produces Ingredients determined to be Non-Hazardous	10043-01-3	>99 % (w/w) Balance 100%

1. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove to fresh air. (Call a physician if symptoms occur).

Skin Contact: Wash skin with soap and water. (Call a physician if symptoms occur).

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Skin

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contact. Ingestion Consult a physician.

Ingestion: Clean mouth with water and drink afterwards plenty of water. If possible drink milk afterwards. Get medical attention if symptoms occur.

PPE for First Aiders: Wear safety shoes, overalls, gloves, chemical goggles, dust mask. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to Physician: Treat symptomatically. For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

3. FIRE FIGHTING MEASURES

Hazchem Code: 2Z

Suitable Extinguishing Media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards: Non-combustible material.

Fire Fighting Further Advice: Not applicable.

4. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Neutralize with soda ash (sodium carbonate) or lime over area of spill.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 171

5. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Use personal protective equipment as required. Wash thoroughly after handling.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep container closed when not in use.

This material is classified as Non Dangerous Good as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and/or the "Australian Code for the Transport of Dangerous Goods by Road & Rail"

EXPOSURE CONTROLS / PERSONAL PROTECTION

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National Occupational Exposure Limits: No value assigned for this specific material by WorkSafe New Zealand.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, DUST MASK.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, gloves, chemical goggles, dust mask. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene Measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

2. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Colour:	White
Odour:	N Av
Solubility:	Soluble in water
Specific Gravity:	N Av
Density:	(water = 1) 2.710
Relative Vapour Density (air=1):	N App
Vapour Pressure:	N App
Flash Point (°C):	N App
Explosion/Flammability Limits:	N App
Autoignition Temperature (°C):	N App
Melting Point/Range (°C):	770
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	770
pH:	N Av
Viscosity:	N App
Total VOC (g/Litre):	N Av
Molecular Weight:	342.14

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

0. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Contact with metals may evolve flammable hydrogen gas. Corrosive on contact with water.

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Incompatible Materials: Strong bases. Water. Hypochlorites. Metals. Chlorites. Carbides.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous Reactions: Contact with metals may evolve flammable hydrogen gas. Corrosive on contact with water.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: No adverse health effects expected if the chemical is handled in accordance with this Safety Inhalation Eye contact Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs. Inhalation of dust in high concentration may cause irritation of respiratory system.

Skin Contact: Causes skin irritation.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Eye Contact: Causes serious eye irritation. Irritation. Erythema (skin redness). May cause redness and tearing of the eyes. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Acute Toxicity

Inhalation: This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): $LC_{50} > 5.0$ mg/L for dust.

Skin Contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000$ mg/Kg bw

Ingestion: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $300 < LD_{50} \leq 2,000$ mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as a Category 2 Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration Hazard: This material has been classified as not an aspiration hazard.

Specific Target Organ Toxicity (Single Exposure): This material has been classified as not a specific hazard to target organs by a single exposure.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive Toxicity (Including via Lactation): This material has been classified as non-hazardous.

Specific Target Organ Toxicity (Repeat Exposure): This material has been classified as non-hazardous.

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute Aquatic Hazard: Keep out of waterways.

Chronic Aquatic Hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF $\geq$ 500 and/or log $K_{ow} \geq$ 4.

Ecotoxicity in the Soil Environment: This material has been classified as non-hazardous.

Ecotoxicity to Terrestrial Vertebrates: This material has been classified as non-hazardous.

Ecotoxicity to Terrestrial Invertebrates: This material has been classified as non-hazardous.

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulative Potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Non Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN No:	3077
Dangerous Goods Class:	Non DG
Packing Group:	III
Hazchem Code:	2Z
Emergency Response Guide No:	171
Limited Quantities	5 kg

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT CLASSIFIED AS DANGEROUS GOODS FOR TRANSPORT)

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Segregation Dangerous Goods: Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

International Maritime Dangerous Goods; SP375: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (IMDG 2024) when transported by sea and meet the following conditions:

- (a) single or inner packaging do not exceed 5 Kg (L); and
- (b) packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

UN No:	3077
Dangerous Goods Class:	Non DG
Packing Group:	III
Limited Quantities:	5 kg
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT CLASSIFIED AS DANGEROUS GOODS FOR TRANSPORT)

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No:	3077
Dangerous Goods Class:	Non DG
Packing Group:	III
Limited Quantities:	5 kg G
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NON HAZARDOUS FOR TRANSPORT)

15. REGULATORY INFORMATION

This Material is not Subject to the Following International Agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

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This Material/Constituent(s) is Covered by the Following Requirements:

NZ EPA Status: All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

HSNO Approval Code: HSR003958

16. OTHER INFORMATION

Reason for issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.