Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10
Effective Date: 17 September 2025

Product Name: Aluminium Sulphate Solution

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	Aluminium Sulphate
Other Names	Aluminium Sulphate, hydrates
CAS No.	10043-01-3
Product Code & Size	20KALS
Recommended Uses	Flocculating agent.
Chemical Name	Sulphuric acid, aluminium salt, aqueous solution
Company Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street, Windsor, QLD, 4030
Phone	+61 402 981 808
Manufacturer Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street, Windsor, QLD, 4030
Phone	+61 402 981 808
Emergency Contact Number	+61 402 981 808 General Information
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre **Australia 131 126** or **New Zealand 0800 764 766**

SECTION 2: HAZARDS IDENTIFICATION

Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Category
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation – Category 1
Specific Target Organ Toxicity (Single Exposure) - Category 3



Signal word: Danger

Hazard Statements
H315: Causes skin irritation.
H318: Causes serious eye irritation
H335: May cause respiratory irritation.

Precautionary statements

Prevention	**P280:**	Wear protective gloves/eye protection/face protection.
	P261:	Avoid breathing mist/vapours/spray.
	P271:	Use only outdoors or in a well-ventilated area
Response	**P305+P351+P338:**	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P302 +P352:	IF ON SKIN: Wash with plenty of water.
	P312:	Call a POISON CENTER or doctor if you feel unwell.
	P332 + P313:	If skin irritation occurs: Get medical advice.
	P362:	Take off contaminated clothing.
	P304 +P340:	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
Storage	**P403 + P233:**	Store in a well-ventilated place. Keep container tightly closed.
	P405:	Store locked up.
Disposal	**P501:**	Dispose of contents/container in accordance with local / regional / national / international regulations.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions
Aluminium Sulphate (Al2(SO4)3)	10043-01-3	≤51%
Water	7784-31-8	Balance

SECTION 4: FIRST AID MEASURES

Swallowed Rinse mouth with water, then drink 1-2 glasses of water. Do NOT induce vomiting. Seek medical attention if irritation, discomfort or vomiting persists.

Eye Rinse with plenty of water at least for 15 minutes. Remove contact lenses if present and easy to do. Seek medical assistance if symptoms persist.

Skin Remove contaminated clothing and wash before re-use. Wash affected areas with copious quantities of water immediately. If irritation occurs, seek medical advice.

Inhaled Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position in fresh air.

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Indication of any immediate medical attention and special treatment needed
If seeking medical attention, provide SDS document to physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions Product is not combustible.

Extinguishing Media Use extinguishing media most appropriate for the surrounding fire/ environment. For example, dry chemical, CO2 or water spray.

Hazards Products of Combustion Can produce toxic fumes in fire, including Sulphur and Aluminium oxides.

Special Protective Precautions & Equipment for Fire fighters' Protective equipment

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment. At high temperatures under fire conditions, it may produce toxic or irritating fumes.

Hachem Code No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and Emergency Procedures

Always wear protective equipment when handling the substance and ensure adequate ventilation. Keep unprotected people away and isolate the affected area. Avoid breathing dust and contact with eyes and skin. Eliminate all sources of ignition. Increase ventilation. Do not allow product to reach drains, sewers, or waterways.

Environmental precautions Prevent from reaching drains, sewers, or waterways.

Methods and Materials for Containment and Clean Up

Wear protective clothing. Sweep up and shovel into a suitable, labeled container and hold for safe disposal. Wash spill area with plenty of water after removing the spill. Prevent dispersion of dust. If necessary, use trained response staff/contractor.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing. Do not ingest. Wear protective clothing when risk of exposure occurs (see SECTION 8). Avoid contact with incompatible materials.

Conditions for Safe Storage including and incompatibilities

Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep

	containers securely sealed when not in use. Avoid physical damage to containers. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10). Store locked up.
Container Type	Keep in the original or suitable (Polyethylene or polypropylene) container. Do NOT use aluminium, galvanised or tinplated containers. *Check all containers are clearly labelled and free from leaks.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

General	No value assigned for this specific material by Safe Work Australia. For Aluminium, soluble salts (as Al): - Safe Work Australia Exposure Standard: TWA = 2 mg/m3 - Safe Work Australia Exposure Standard: TWA = 1 mg/m3; STEL = 3 mg/m3-
Appropriate Engineering Controls	Provide adequate ventilation in warehouses and enclosed storage areas. General exhaust is adequate under normal operating conditions; Local exhaust ventilation may be required in special circumstances.
Personal Protective Equipment	- Respiratory protection: In case of inadequate ventilation or if a risk of overexposure exists, wear approved respirator. Recommended: Suitable mist respirator (refer to AS/NZS 1715 & 1716). Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. - Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Safety glasses with sideshields or Chemical goggles. - Hand protection: Wear protective gloves. Recommended: Impervious, chemical-protective gloves, e.g. PVC. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls. Wear safety footwear or safety gumboots, e.g. Rubber.
Work hygiene practices	When handling, Do not eat, drink or smoke. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Do NOT allow clothing wet with material to stay in contact with skin.
Biological Values	No information available
Exposure Limits	No information available
Special Hazard Precautions	Aluminium sulfate forms sulfuric acid in water; reacts violently with bases and many other materials.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to brownish powder or granulate
Odor	Odorless
Vapor Pressure	No data available
Vapor Density	No data available
Boiling Point	No data available
Melting Point	770 °C
Solubilities	Soluble in water
Specific Gravity/ Relative Density	1.315-1.318 (water =1)
Flash Point	Not applicable
pH	2.10 – 2.50 (a supplied)
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Particle Size	Not applicable
Volatile Organic Compounds	Not applicable
Evaporation Rate	Not applicable
Viscosity	No data available
Percent Volatile	No data available
Octanol/Water partition coefficient	Not applicable
Saturated Vapor Concentration	No data available
Additional Characteristics	No information available
Flame Propagation/Burning rate of Solid Material	No data available
Reactions That Release Gases or Vapours	Fire or heat may produce irritating, toxic and/or corrosive fumes, including Sulfur oxides (SOx), Aluminium oxides.
Release of Invisible Flammable Vapours and Gases	Aqueous solution attacks aluminium and other metals forming hydrogen gas; the material is corrosive to aluminium, zinc and tin producing highly flammable hydrogen gas.

SECTION 10: STABILITY AND REACTIVITY

General Information

Aluminium sulfate forms sulfuric acid in water; reacts violently with bases and many other materials. Aqueous solution attacks aluminium and other metals forming hydrogen gas; the material is

	corrosive to aluminium, zinc and tin producing highly flammable hydrogen gas.
Chemical Stability	Product is considered stable. *Unstable in the presence of incompatible materials.
Conditions to Avoid	Avoid contact with incompatible materials.
Materials to Avoid	Incompatible/reactive with alkalis, metals.
Hazardous Decomposition Products	Fire or heat may produce irritating, toxic and/or corrosive fumes, including Sulfur oxides (SOx), Aluminium oxides.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

General Information	- Acute toxicity: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.- Skin corrosion/irritation: Causes skin irritation. - Eye damage/irritation: Causes serious eye damage. When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. - Respiratory/skin sensitisation: The available data do not provide any evidence of skin sensitisation (Aluminium sulfates).- Germ cell mutagenicity: The weight of evidence does not support classification of (Aluminium sulfates) for genotoxicity. - Carcinogenicity: The available data do not support classification of (Aluminium sulfates) as carcinogens. - Reproductive toxicity: No information available. - STOT (single exposure): May cause respiratory irritation. - STOT (repeated exposure): Aluminium has been shown to have neurotoxic effects. - Aspiration toxicity: No information available.
Acute	
Ingestion	Acute toxicity (Oral): COMPONENT: Aluminium sulphate, hydrated: - LD50, Rat: 370 mg/kg [Supplier's SDS].
Carcinogen Category	None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity: COMPONENT: Aluminium sulphate, hydrated: - LC50, Fish: 0.112 mg/L (96 h) [Supplier's SDS]. - EC50, Crustacea: 0.33 mg/L (48 h) [Supplier's SDS]. - EC50, Algae/other aquatic plants: 0.04 mg/L (72 h) [Supplier's SDS].
Persistence/ degradability	COMPONENT: Aluminium sulphate, hydrated: - High persistence in water/soil; High persistence in air.
Mobility	COMPONENT: Aluminium sulphate, hydrated: - Low mobility in soil (KOC = 6.124).
Environmental Fate	Prevent entry into drains and waterways.
Prevent entry into drains and waterways.	COMPONENT: Aluminium sulphate, hydrated: - Low bioaccumulative potential (LogKOW = -2.2002).
Environmental Impact	No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

General Information	This material may be recycled if unused or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. Recycle wherever possible or dispose of by burial in a landfill specifically licensed to accept chemical and/or pharmaceutical wastes or incinerate in a licensed apparatus (after admixture with suitable combustible material) and in accordance with local/regional/national regulations.
Special Precautions for Land Fill	Contaminated packaging: Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14: TRANSPORT INFORMATION

UN Number	Not applicable
Shipping Name	Aluminium Sulphate
Dangerous Goods Class	Non Dangerous Goods
Subsidiary Risk	Not applicable

Pack Group	Not applicable
Hazchem Code	Not applicable
Special precautions for user	Not applicable

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST)	Not applicable

SECTION 16: CONTACT INFORMATION

Any advice, recommendation, information, assistance, or service provided by Viva Blu in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer of any liability on the part of Viva Blu. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

Craig Mair
Managing Director

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