Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10
Effective Date: 22 January 2024

Product Name: Polyaluminium Chloride Solution

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name: Polyaluminium Chloride Solution

Uses Specialist coagulant in the treatment of water and wastewater; other miscellaneous applications.

Chemical Family

No Data Available

Chemical Formula

Chemical Name

Aluminium hydroxide chloride

Product Description

Company 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 chemical according to GHS (Globally Harmonized System)

Hazard Category

Category 2 Skin Corrosion/Irritation
Category 2A Serious Eye Damage/Irritation
Pictograms



Signal word: Warning

Hazard Statements

H315	**Causes skin irritation.**
H319	**Causes serious eye irritation.**

Precautionary statements

P280: Wear protective gloves, clothing/ eye protection/ face protection
P302 + P352: IF ON SKIN: Wash with plenty of water
P337 + P313: If eye irritation persists: Get medical advice/attention
P332 + P313: If skin irritation occurs: Get medical advice/attention
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P362 + P364: Take off contaminated clothing and wash it before reuse.

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions
Aluminium chloride, basic	1327-41-9	>=10 %
Water	7732-18-5	68%

SECTION 4: FIRST AID MEASURES

Swallowed	IF SWALLOWED: Rinse mouth with water. Do not induce vomiting. Get immediate medical advice/attention.
Eye	IF IN EYES: Immediately flush eyes with lukewarm running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Get immediate medical advice/attention
Skin	IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin gently with warm running water (and non- abrasive soap, if necessary) for at least 15 minutes. In case of gross contamination, drench contaminated clothing and skin with plenty of water before removing clothes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse or discard.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
Advice to Doctor	Treat symptomatically.

Medical Conditions Aggravated by No information available.

Exposure

SECTION 5: FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. If a significant quantity of this product is involved in a fire, call the fire brigade.

Flammability Conditions Not combustible; Does not burn.

Extinguishing Media If material is involved in a fire, use extinguishing media suited to burning materials.

Fire and Explosion Hazard Containers may explode when heated.

Hazardous Products of Combustion

Decomposes on heating, emitting hydrogen chloride gas and other toxic fumes.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause polution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.

Flash Point No Data Available

Lower Explosion Limit No Data Available

Upper Explosion Limit No Data Available

Auto Ignition Temperature No Data Available

Hazchem Code No Data Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures Absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION 13). Hose final trace residues to drain.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.

Decontamination Use retention basins for storage and pH adjustment before discharge or disposal.

Environmental Precautionary Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

SECTION 7: HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Avoid breathing mist/vapours and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Avoid contact or contamination of product with incompatible materials.

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Some liquid preparations settle or separate on standing and may require stirring before use.

Container Keep in the original container.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

General No specific exposure standards are available for this product. For Aluminium, soluble salts (as Al):
- Safe Work Australia Exposure Standard: TWA = 2 mg/m3.

Exposure Limits No Data Available

Biological Limits No Data Available

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment
- Respiratory protection: Usually, no respirator is necessary when using this product. However, for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems, we recommend that you use a respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Protective glasses or goggles.
- Hand protection: Wear protective gloves. Recommended: Impervious gloves, e.g. rubber, PVC.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious clothes and, preferably, apron.

Special Hazards Precautions No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Thoroughly launder protective clothing before storage or re-use.

*Advise laundry of nature of contamination when sending contaminated clothing to laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid
Odour	Faint, characteristic
Colour	Clear to slightly hazy
pH	2.5 – 3.5
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	approx. 100 °C
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Miscible with water
Specific Gravity	>=1.15-1.20

Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Volatile Percent	No Data Available
Additional Characteristics	No information available
Properties That May Initiate or Contribute to Fire Intensity	Not combustible; Does not burn.
Reactions That Release Gases or Vapours	Decomposes on heating, emitting hydrogen chloride gas and other toxic fumes.

SECTION 10: STABILITY AND REACTIVITY

General Information No information available.
Chemical Stability Stable under normal storage conditions.
Conditions to Avoid Avoid extremes of temperature.
Materials to Avoid Incompatible/reactive with acids, alkalis, strong oxidising agents, metals and nylon materials.
Hazardous Decomposition Products
Decomposes on heating, emitting hydrogen chloride gas and other toxic fumes.
Hazardous Polymerisation Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

General Information
- Acute toxicity: Ingestion may cause nausea, vomiting and abdominal pain.
- Skin corrosion/irritation: Causes skin irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: No information available.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: The available data do not support classification as a carcinogen.
- Reproductive toxicity: No information available.
- STOT (single exposure): Breathing in vapour, mists or aerosols may produce respiratory irritation.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: No information available.

Carcinogen Category None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available.
Persistence/Degradability No information available.
Mobility No information available.
Environmental Fate Prevent entry into drains and waterways.
Bioaccumulation Potential No information available.
Environmental Impact No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations. Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers; If this is not practical, send to a commercial waste disposal site.

Special Precautions for Land Fill No information available.

SECTION 14: TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Polyaluminium Chloride Solution

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Polyaluminium Chloride Solution

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

EMS No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name Polyaluminium Chloride Solution

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST) Not Scheduled

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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