

Aquapac Pty Ltd

ABN 36 114 118 311

Water treatment & Specialty chemicals

MATERIAL SAFETY DATA SHEET

Product: Polyaluminium Chloride

Company Details

Supplier: Aquapac Pty Ltd
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Castle Hill NSW 1765
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Emergency Telephone No.:

Business Hours: (02) 9826 0201
After Hours: 000 Fire brigade or Police

IDENTIFICATION

U.N. Number: None allocated
Hazchem: None allocated
EPG: None allocated
Class: None allocated
Poisons Schedule: None allocated
Packaging Group: None allocated

Classified as hazardous according to criteria of NOHSC

Ingredients

Chemical Entity	CAS No.	Proportion
Polyaluminium chloride	1327-41-9	20 - 50%
Sulphates	10043-01-3	< 10%
Water	7732-18-5	balance

Other Names

Aluminium hydroxychloride
Aluminium hydroxy chlorosulphate
Polyaluminium chlorosulphate

Uses

Coagulant for water and waste water use.

Physical Description / Properties

Appearance: Clear to pale yellow cloudy solution.
Flash point: N/A
Boiling point (°C): N/A
Melting Point (°C): N/A
Volatiles: 67%
Specific Gravity: 1.16 to 1.35
ph (5% solution): 2.5 to 5.0
Solubility in Water (g/L): soluble

Other Properties

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Odour: characteristic
Solubility: Do not dilute below 5% solution in water

HEALTH HAZARD INFORMATION

Health Effects

Symptoms that may arise if the product is mishandled are:

Acute

Swallowed Ingestion may result in nausea.

Eye Irritating to eyes.

Skin Irritating to skin.

Inhaled Should not occur. However if heated may release chlorine which may cause respiratory irritation.

Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.

First Aid

Swallowed Rinse mouth thoroughly with water immediately. If swallowed promote vomiting by usual means. Seek immediate medical assistance.

Eye Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin Immediately wash contaminated skin with plenty of water and then wash with soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice.

Inhalation Remove victim from exposure - avoid becoming a casualty. Seek medical advice.

Poison Information Centres in each State capital city can provide additional assistance.

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Advice to Doctor

Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards (for atmospheric contaminants in the occupational environment)

No value assigned for this product by the NOHSC (Workcover). However, the exposure standard for the acid constituent is:

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Hydrochloric acid	5	7.5		

Engineering Controls

Maintain concentration below recommended exposure limit. Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator to comply with Australian Standards, ensuring correct fit to obtain adequate protection.

Personal Protection

- Eyes:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.
- Skin:** Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots
- Respiratory:** If mist is generated the use of a chlorine vapour half facepiece respirator is recommended.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

Flammability

Not combustible material.

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SAFE HANDLING INFORMATION

Storage and Transport

Not classified as a Dangerous Good for the purposes of transport.

Use only plastic (PE, PP, PVC) or fibreglass containers/vessels – corrosive to mild and stainless steels. Other tanks should be lined with chloride resistant materials. Pumps should also be lined with chloride resistant materials.

Spills

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Contain do not allow spill material to enter the environment. Contain material using inert absorbent material eg vermiculite. Place into suitable labelled containers and hold for waste disposal. Wash area down with excess water once removed.

Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority.

Fire / Explosion Hazards

Conditions to avoid:

High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

Materials to avoid:

Strong alkalis.

Hazardous Decomposition Products:

May produce hydrogen chloride and /or corrosive gases

Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water, foam, carbon dioxide, dry powder.

OTHER INFORMATION

Toxicity

Toxicology:

No data

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Risk Statement:

R36/38 Irritating to eyes and skin.

Safety Statement:

R36/37/38 Irritating to eyes, respiratory system and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.

S28 After contact with skin wash with plenty of soap and water.

Hazard Category: X1

Harmful, Irritant

Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Aquapac Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

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