

1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL**Product Identifier: POLYALUMINIUM CHLORIDE****Other Means of Identification:** Polyaluminium chloride, Aluminium hydroxide chloride, aluminium chloride hydroxide; (aluminum hydroxychloride); aluminium chlorhydrate; Poly(aluminium hydroxy) chloride

Chemical names: Dialuminium Chloride Pentahydroxide

Proper shipping name (ADG): Not regulated

SUSMP name: Not a scheduled poison

Recommended use of the chemical and restrictions on use: Polyaluminium chloride is a polyvalent inorganic polymer used as a coagulant in the treatment of potable water, industrial waste water and many other waste water situations. No restrictions.**Supplier Details**

PERTH:

Canning Pool & Pump Centre

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2. HAZARD IDENTIFICATION**Classification of the hazardous chemical**

Classified as hazardous according to criteria of ASCC but not classified as a dangerous good according to the ADG code.

Emergency overview: Causes burns to skin and eyes. Irritating to respiratory system. Material is nonflammable and non-explosive. Severe overheating may produce hydrogen chloride gas

Classification under the Globally Harmonised System of Classification and Labelling of Chemicals 4th Revised Edition and ECHA:

H315 Skin Irrit. 2,

H319 Eye Irrit. 2;

H335 STOT SE 3

Label elements according to the National model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015)**Hazard pictograms:**

Exclamation Mark

Signal word: WARNING**Hazard statements:**

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

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Precautionary statements:

P261 Avoid breathing dust

P264 Wash with water thoroughly after handling. P271

Use only outdoors or in a well-ventilated area P280

Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/

physician if you feel unwell 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 and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with local/regional/ national/international Regulations

Other hazards which do not result in classification

ECHA (CAS 12042-91-0) According to the notifications provided by companies to ECHA in REACH registrations no hazards have been classified. Additionally, the classification provided by companies to ECHA in CLP notifications identifies that this substance causes serious eye irritation, causes skin irritation and may cause respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Substance Name</i>	<i>Concentration, %</i>	<i>Product Identifier</i>	<i>Hazard Classes and Hazard Categories (ECHA)</i>
Dialuminium chloride pentahydroxide	>95	CAS No. 12042-91-0 EC No. 234-933-1	H315 Skin Irrit. 2; H319 Eye Irrit. 2; H335 STOT SE 3

This is one of several polyaluminium chlorides

4. FIRST AID MEASURES

Description of necessary first aid measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin: Remove contaminated clothing. Flush skin with water. If effects persist, seek medical attention.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth respiration.

Notes to Physician: Treat symptomatically and supportively.

Symptoms caused by exposure: Ingestion may cause nausea and/or vomiting. May cause eye irritation. May cause skin irritation with prolonged contact. Inhalation of dust may cause mild irritation of the nose and throat

Medical Attention and Special Treatment:

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water, foam or carbon dioxide extinguishers. Use equipment/media appropriate to surrounding fire conditions. **Specific hazards arising from the chemical**

Fire: May produce toxic fumes Hydrogen Chloride.

Explosion: Not considered to be an explosion hazard.

Hazchem Code: not applicable

Special protective equipment and precautions for fire fighters

Advice for firefighters: Keep containers cool with water spray. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Containers may explode when heated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use suitable equipment (including PPE) to prevent contamination of skin, eyes and personal clothing.

Emergency procedures,. Keep away from incompatible products.

Environmental precautions: If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system.

General Information: Use proper personal protective equipment as indicated in Section 8.

Methods and materials for containment and cleaning up

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Place in a closed container for disposal. Do not get water inside containers.

7. HANDLING AND STORAGE

Precautions for safe handling: General: Eating, drinking and smoking in work areas is prohibited. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Use only in a well-ventilated area. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale.

Conditions for safe storage, including any incompatibilities: Store in a dry location away from direct sources of heat. Prevent severe over- heating. Ensure opened bags are resealed to prevent absorption of moisture. No special transport or storage requirements

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring

HSIS Airborne Exposure Limits: Aluminium, soluble salts as Al: TWA 2 mg/m³; STEL Not Assigned

Appropriate engineering controls: Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits

Personal protective equipment (PPE)

Wear PVC protective gloves and boots. Wear goggles for eye protection. Wear other industrial protective clothing to minimise contact with material. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless crystalline powder

Odour: Odourless

Odour threshold: Not available

pH: 3.2 (1% solution) **Melting**

point: Not available

Initial boiling point and boiling range: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability (solid, gas) : Not available

Upper/lower flammability or explosive limits: Not available

Vapour pressure: Not available

Vapour density: Not available

Specific Gravity: 1.19

Solubility: >40%

Partition coefficient: n-octanol/water: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: Hazardous polymerisation has not been reported.

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions: Releases acidic vapours upon decomposition.

Conditions to Avoid: Excess heat.

Incompatible materials and possible hazardous reactions: avoid alkaline materials (e.g., ammonia & its solns, Carbonates, sodium hydroxide (caustic), potassium hydroxide).
Material is non-flammable. Severe overheating may produce hydrogen chloride gas. Corrosive to metals...

Hazardous Decomposition Products: Oxides of aluminium, Hydrogen Chloride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Skin: May cause skin irritation with prolonged contact **Eye:**

May cause eye irritation.

Ingestion: Ingestion may cause nausea and/or vomiting.

Inhalation: Inhalation of dust may cause mild irritation of the nose and throat

Chronic: No data

Respiratory or skin sensitisation: Not available **germ**

cell mutagenicity: Not available

carcinogenicity: Polyaluminum chloride is not classified as a carcinogen by ACGIH (American Conference of Governmental Industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as a carcinogen by OSHA (Occupational Safety and Health Administration) and not listed as a carcinogen by NTP (National Toxicology Program).

Reproductive toxicity: Oral rat TDLo 13 g/kg 7-19 day(s) pregnant female continuous

Specific Target Organ Toxicity (STOT) – single exposure: Not available

Specific Target Organ Toxicity (STOT) – repeated exposure: Not available

Aspiration hazard: Not sensitising

Information on Possible routes of exposure: Ingestion, Inhalation, Skin/ eye exposure.

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Delayed Health Effects from Exposure: Not available

Interactive Effects: Not available

Numerical Measures of Toxicity: 25mg/m³/6 hour(s)-2 year(s) intermittent inhalation-rat TCLo;
25g/m³/6 hour(s)-2 year(s) intermittent inhalation-guinea pig TCLo. 150mg/m³
day(s)intermittent skin-human mild.

12. ECOLOGICAL INFORMATION

Ecotoxicity: fish toxicity: 10000 µg/L 24 week(s) (Mortality) Coho salmon, silver salmon
(Oncorhynchus kisutch)

Persistence and degradability: Product will degrade in sewage treatment plants.

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects: None known

13. DISPOSAL CONSIDERATIONS

Disposal methods: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. State and local disposal regulations may differ from federal disposal regulations. Neutralise to pH 6-9 before disposal

Disposal of any contaminated packaging: Dispose of container and unused contents in accordance with federal, state and local requirements..

Effects of sewage disposal: No data

14. TRANSPORT INFORMATION

Australian DG Classification for Road and Rail: Not Allocated. Shipping Name POLY
ALUMINIUM CHLORIDE

Environmental hazards for Transport Purposes: Not a marine pollutant

Special precautions during transport: None

Hazchem Code: Not applicable

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Australian Inventory of Chemical Substances: Ingredients present on AICS

HSIS (Safe Work Australia) Labelling: Not listed

SUSMP Poison Labelling: Not a scheduled poison

16. OTHER INFORMATION

Date of preparation or review:

Key abbreviations or acronyms used:

End of SDS