

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: CHEMICLEAR 100
OTHER NAMES: PAC, Poly Aluminium Chloride Solution

ADDITIONAL INFO:
Typical use: Coagulant for water treatment.
NZ Supplier: Erosion Control Co Ltd, Silverdale, Auckland
Telephone: 09 426 8292
Fax: 09 426 8293
Emergency No: NZ Poisons Centre 0800 764 766
Email: info@erosioncontrol.co.nz

2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Goods under NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as Hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Signal Word – WARNING



Subclasses:

- 6.1 Category D Substances which are acutely toxic (medium hazard)
- 6.3 Category A Substances irritating to the skin (high hazard)
- 6.4 Category A Substances irritating to the eye

Hazard Statements:

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled

Prevention Statements

P102 Keep out of reach of children
P103 Read label before use
P104 Read Safety data sheet before use

P264 Wash hands and any exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear protective clothing, gloves and eye/face protection

Response Statements

P101 If medical advice is needed, have product container or label at hand.

P301+P312 IF SWALLOWED: Call a poison centre or doctor/physician if you feel unwell.

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

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs. Get medical advice/attention.

P362 Take off contaminated clothing and wash before re-use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Concentration	CAS No.	Hazard Code
Polyaluminium chloride	≥ 30 %	1327-41-9	H302; H319; H315
Water	≤ 60 %	7732-18-5	

4. FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses, if present. Get medical attention if eye irritation persists.
Skin:	In case of contact, immediately flush skin with copious quantities of water for at least 15 minutes while removing contaminated clothing and shoes. If swelling, redness, blistering or irritation occurs seek medical assistance. Wash clothing before re-use.
Inhalation:	Remove victim to fresh air. Remove any contaminated clothing and loosen remaining clothing. Allow patient to assume a comfortable position and keep warm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a doctor/physician if effects persist.
Ingestion:	Do NOT induce vomiting. Rinse mouth out with water and get medical/attention immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Foam, dry powder, carbon dioxide and sand

Special protective equipment: As for all fires involving chemicals.

For firefighters: Chemical protection suit, suitable gloves and boots, and self-contained breathing apparatus.

Specific hazards arising from substance or mixture:

- Non-combustible material
- May decompose on heating emitting fumes including hydrogen chloride

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment/effective to prevent skin & eye contact & inhalation of dust
De-contamination Procedures	Residues or small spillages shall be rubbed by cloth and washed with clean water & soap.
Environmental precautions	Clear area of all unprotected personnel. Absorb spills with sand, earth or non-combustible absorbent material, sweep up & collect in suitable containers for disposal. If contamination of sewers or waterways occurs, advise local emergency services.

7. HANDLING AND STORAGE

Handling precautions:	Wear PVC or other plastic material gloves/rubber gloves for hand protection and wear goggles for eye protection. Do not eat or drink whilst handling the product.
Package:	Solid PAC is packed in inner plastic bags and furtherly in polypropylene woven bags, with each bag containing 25kg. Liquid PAC is packed in PE plastic drum and our company will provide special tanks for transportation and storage for the liquid product to the users.
Storage conditions	Avoid wet, damp and humid conditions. Keep in a dry, cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
HTP(8h)=2mg/M3 (Al) Finland
TVL=2mg/M3 (Al) (TWA) USA
MAK=6(F)mg/M3 (Al) Germany

Personal protection equipment

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection: PVC or other plastic material gloves.

Eye Protection: Safety glasses with side-shields. Do not wear contact lenses.

Skin & body protection: Chemical resistant apron or protective suits if splashing or repeated contact with solution is likely.

Hygiene measures: Wash hands and face before breaks and immediately after handling the product. When using do not eat drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Clear or pale yellow liquid

Al₂O₃: 10.1% min.

Water Insolubles: 0.6% max.

pH: 3.5-5.0 (10% aqueous solution)

Specific Gravity (sg) 1.20 @ 20°C

Boiling point: above 100°C

Freezing Point/Range (°C) -10-14°C (approx)

Decomposition Point >150°C

Flash Point Non combustible

10. STABILITY AND REACTIVITY

Stability Stable at ambient temperatures

Materials to avoid Acids, strong alkalis, calcium hypochlorite, metals

Hazardous decomposition No decomposition if stored and applied as directed

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:

-Oral: The product is not expected to be toxic

-Inhalation: The product is not expected to be toxic.

Irritation

- Skin: Prolonged skin contact may cause skin irritation.

- Eyes: May cause eye irritation with susceptible persons.

Sensitization: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: LC50/96h/algae=1.5-2mg/l (Al-Cl)

Toxicity to bacteria: 12mg/l (Al-Cl)

LC50/48h/daphnia: 3.9mg/l (Al-Cl)

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused: Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging: Dispose of as special waste in compliances with local and national regulations.

14. TRANSPORTATION INFORMATION

Road & Rail Transport:

Not classified as a Dangerous Good under NZS5433:2012 Transport of Dangerous Good on Land.

Marine Transport:

Not classified as Dangerous Goods by the International Maritime Dangerous Goods Code (IMDG Code) for Transport by Sea. Non-dangerous goods.

Air Transport:

Not classified as Dangerous Goods by the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air. Non-dangerous goods.

15. REGULATORY INFORMATION

The product is not a hazardous article and need not to be labeled according to EC-Directives as amended.

16. OTHER INFORMATION

Notes: The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

No liability will be accepted for injury, loss or damage resulting from failures to take consideration of information or advice contained in the SDS.