

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: CHEMICLEAR 200

OTHER NAMES: poly(diallyldimethylammonium chloride)

ADDITIONAL INFO:

Typical use: Organic polymer for water and wastewater 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.

Based on available information is not considered hazardous according to the criteria in the HS (minimum degree of hazard) regulations 2001.

Hazard statements: H412 harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention: P273 Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | Concentration | CAS No. | Hazard Code |
|------------------------------------|---------------|------------|-------------|
| Polyallyldimethylammonium chloride | 10-40 % | 26062-79-3 | |
| Water | 60-90 % | 7732-18-5 | |

4. FIRST AID MEASURES

Eyes: 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.

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| Skin: | In case of contact, immediately flush skin with copious quantities of water and wash with soap. If irritation occurs call a physician. |
| 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

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| Extinguishing media: | Water spray, dry chemical, carbon dioxide or appropriate foam. |
| For firefighters: | Wear self-contained breathing apparatus and suitable protective clothing if there is a risk of exposure to vapor or products of combustion. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | Use personal protective equipment/effective to prevent skin & eye contact. |
| De-contamination Procedures | Dam the spill area. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable closed containers prior to disposal. After cleaning, flush away traces with water. |

7. HANDLING AND STORAGE

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| Handling precautions: | Wear appropriate gloves/rubber gloves for hand protection and wear goggles for eye protection. Do not eat, drink or smoke whilst handling the product. |
| Storage conditions | Store in a dry, cool, well ventilated area. Keep away from ignition sources, heat and flames. Keep containers closed when not in use. Keep above 0 °C as freezing may affect the physical condition and result in loss of performance. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation.

Personal protection equipment

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

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| Appearance: | Highly viscous yellow liquid |
| Dry weight: | 39-41 % m/m |
| Boiling point: | > 100 °C |
| pH: | 4.0-8.0 |
| Solubility: | Miscible with water. |
| Specific Gravity: | 1.0-1.2 |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under normal temperatures and pressures. No hazardous polymerization occurs. |
| Incompatibilities: | Oxidizing agents may cause exothermic reactions. Burning of the dried material can produce hydrogen chloride gas, nitrogen oxides and carbon oxides. |

11. TOXICOLOGICAL INFORMATION

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|-----------------|----------------------------------------------|
| Acute toxicity: | |
| Oral: | This product is not expected to be toxic. |
| Inhalation: | This product is not expected to be toxic. |
| Irritation: | |
| Skin: | Prolonged contact may cause skin irritation. |
| Eyes: | May cause eye irritation. |
| Sensitization: | No data available. |

12. ECOLOGICAL INFORMATION

Environmental effects:

Low acute LC₅₀ to fish, but not expected to cause long term adverse effects to aquatic environment.

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

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

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for Transport by Air.

15. REGULATORY INFORMATION

The product is not a hazardous article.

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.