

# Ravensdown Chlormequat

Revised: 19/07/2012

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	<b>RAVENSDOWN CHLORMEQUAT</b>
<b>Recommended Use:</b>	Plant growth regulator
<b>Company Identification:</b>	Ravensdown Fertiliser Co-operative Limited
<b>Address:</b>	Level 1 32 Oxford Terrace Christchurch
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Telephone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency:</b>	IN AN EMERGENCY, DIAL 111 – FIRE or POLICE

## Section 2: HAZARD IDENTIFICATION

<b>Hazard Classifications:</b>	6.1C, 6.9B, 8.1A, 9.1D, 9.3B
<b>Priority Identifiers:</b>	TOXIC CORROSIVE ECOTOXIC
<b>Secondary Identifiers:</b>	6.1C = May be fatal if swallowed, inhaled or absorbed through the skin 6.9B = May cause organ damage from repeat oral exposure at high doses 8.1A = Corrosive to metal 9.1D = Harmful to aquatic organisms 9.3B = Toxic to terrestrial vertebrates

## Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Chlormequat	999-81-5	780g/lt

## Section 4: FIRST AID MEASURES

<b>First Aid Measures:</b>	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
<b>Inhalation:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
<b>Skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
<b>Eye:</b>	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor
<b>Advice to Doctor:</b>	Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

<b>Flammability:</b>	Not flammable
<b>Hazardous Combustion Products:</b>	If involved in a fire, may evolve toxic fumes
<b>Extinguishing Media:</b>	Water fog, foam, carbon dioxide or dry chemical
<b>Protective Equipment:</b>	Full protective clothing and self-contained breathing apparatus
<b>HAZCHEM Code:</b>	2X
<b>Location Certificate:</b>	Not applicable
<b>Hazardous Atmosphere Zone:</b>	Not applicable
<b>Fire Extinguishers:</b>	Not applicable

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precaution:</b>	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of spray mist. <b>Approved Handler:</b> This product must be under the control of an approved handler.
<b>Tracking:</b>	Location and movement of this product must be recorded at each stage of its lifecycle.
<b>Record Keeping:</b>	Records of use in accordance with NZS 8409 Management of Agrichemicals must be kept.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409 Management of Agrichemicals This product is subject to signage and secondary containment when stored in quantities of 100litres or more, either alone or in aggregate with substances of the same hazard classification. More than 100litres require emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
<b>Other Information:</b>	Always read the label before use. See label for further information on handling and storage.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Limits:</b>	No exposure limits have been assigned for this product by DoL
<b>Protective Equipment:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles, face shield, chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Engineering Controls:</b>	Handle in well-ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.
<b>Hygiene Precautions:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear light yellow liquid
<b>Odour:</b>	Amine like
<b>Specific Gravity:</b>	1.145
<b>Solubility in Water:</b>	Soluble in water
<b>pH:</b>	5-7
<b>Other Information:</b>	Soluble Concentrate

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Hazardous Polymerisation:</b>	Not known to occur
<b>Materials to Avoid:</b>	Avoid contact with strong acids and oxidising agents. Corrosive to metals.

## Section 11: TOXICOLOGICAL INFORMATION

<b>ERMA Classifications:</b>	6.1C, 6.9B, 8.1A
<b>Inhalation:</b>	<b>Acute Toxicity</b> LC <sub>50</sub> (rat) (4hr) >0.709mg/l (chlormequat)
<b>Ingestion:</b>	<b>Acute Toxicity (Oral)</b> LD <sub>50</sub> (rat) 600mg/kg (chlormequat)
<b>Skin:</b>	<b>Acute Toxicity (Dermal)</b> LD <sub>50</sub> (rabbit) >2000mg/kg (chlormequat)
<b>Eye:</b>	No eye irritation (rabbit)

## Section 12: ECOLOGICAL INFORMATION

<b>ERMA Classifications:</b>	9.1D, 9.3B
<b>Ecotoxicity:</b>	<b>Acute Toxicity (fish)</b> LC <sub>50</sub> (rainbow trout) (96hr) 652mg/l (chlormequat) <b>Acute Toxicity (daphnia)</b> EC <sub>50</sub> (3d) 0.379mg/l (chlormequat) <b>Harmful to fish and other aquatic organisms</b> <b>Toxic to terrestrial vertebrates</b>
<b>Persistence/Mobility:</b>	Readily biodegradable

## Section 13: DISPOSAL INFORMATION

<b>Product Disposal:</b>	Dispose of product only by using according to label or at an approved landfill
<b>Container Disposal:</b>	Triple rinse container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for disposal [Ph.0800 247 326, <a href="http://www.agrecovery.co.nz">www.agrecovery.co.nz</a> ]. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose.

## Section 14: TRANSPORT INFORMATION

<b>RAIL/ROAD:</b>	<b>UN Number:</b> 1760 <b>Proper Shipping Name:</b> CORROSIVE LIQUID, N.O.S (CHLORMEQUAT CHLORIDE 78%) <b>DG Class:</b> 8 <b>Packing Group:</b> III <b>Marine Pollutant:</b> No
<b>Other Information:</b>	Do not carry this product on a passenger service vehicle Check the latest versions of the Land Transport Rule 45001 and associated Transport of Dangerous Goods on Land [NZS 5433] for additional information on maximum allowable transport quantities [MTQ's], placarding and segregation. Sea transport may require further segregation.

## Section 15: REGULATORY INFORMATION

<b>ACVM:</b>	Registered pursuant to the ACVM Act 1997, P3906 See <a href="http://www.nzfsa.govt.nz/acvm/">www.nzfsa.govt.nz/acvm/</a> for registration conditions.
<b>ERMA:</b>	Approved pursuant to the HSNO Act 1996, Code: HSR000758 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.

## Section 16: OTHER INFORMATION

This SDS supersedes all previous versions and was originally written to include HSNO requirements.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.