

**WARNING - ECOTOXIC HERBICIDE NOT FOR USE IN HOME GARDEN**

  
**ravensdown**

**HERBICIDE**

**GROUP 4**

**Multiple<sup>®</sup>**

A selective herbicide used to control clovers, yarrow, plantains, Californian and other thistles in a range of crops, turf, forestry and pre-cultivation

**ACTIVE INGREDIENT:**

Contains 300g/litre clopyralid as the monoethanolamine salt in the form of a water soluble concentrate.



**Registrant: Ravensdown Ltd**  
292 Main South Road  
Hornby, Christchurch 8042  
New Zealand  
Phone: 03 353 4600

[ravensdown.co.nz](http://ravensdown.co.nz)

BATCH:

D.O.M:

**NET CONTENTS**  
**20 Litres**

ravensdown 

# MULTIPLE<sup>®</sup> | READ LABEL CAREFULLY BEFORE USING

**This product must not be used for any purpose, or in any manner, contrary to the label unless authorised under appropriate legislation.**

## HAZARD STATEMENTS

**QUALIFIED PERSON:** This product must be under the control of a Qualified Person or Contractor, as per Part 4C of the Hazardous Property Controls EPA Notice.

### ECOTOXICITY

**Toxic to aquatic life with long lasting effects.** Avoid contamination of any water supply with chemical or empty container. This product must not be applied onto or into water. Do not allow spray drift over aquatic environments. Do not apply directly into or onto water.

**Hazardous to soil organisms.** Selective herbicide – very toxic to some plant species. Some plants maybe damaged or killed by contact with this product. **Beware - apply this product carefully. Spray drift may cause serious damage to desirable plants.** Ensure compliance with any relevant regional air management plans. Do not allow drift outside the target area to occur. Do not use for treating turf that will be mown and the clippings used for making compost; or made available for collection for, or deposited at a municipal green waste recycling depot. Avoid uncontrolled release to the environment.

**Hazardous to soil vertebrates.**

## HANDLING PRECAUTIONS

### STORAGE

Keep out of reach of children. Store in accordance with NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a locked, dry, cool, well ventilated area away from foodstuffs, fertilisers and seeds. Stores containing 100L of MULTIPLE are subject to signage and secondary containment. More than 100L require emergency response plans. When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

### PERSONAL PROTECTION

Avoid contact with skin and eyes and inhalation of spray mist. When handling wear protective clothing such as waterproof gloves, eye protection, overalls and boots. Wash splashes of concentrate from skin and eyes immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

### FIRST AID

If swallowed, DO NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled, move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped.

### EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use. Decontaminate spray equipment before use on a sensitive crop.

### RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

### DISPOSAL

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. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose. Dispose of product only by using according to label directions or dispose of safely at a managed landfill.

Registered pursuant to the ACVM Act 1997, No.P7105. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions. Approved pursuant to the HSN0 Act 1996, Code: HSR000760. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

Agrecovery is available on plastic containers up to 60L and for plastic or steel large drums from 61L - 1000L.

PHONE 0800 100 123



AGRECOVERY

[www.agrecovery.co.nz](http://www.agrecovery.co.nz)

## SPILLAGE

In case of spillage, wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Contain liquid spills and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

## EMERGENCY RESPONSE

In transport emergency call 111, Police or Fire Brigade.  
For 24hr specialist advice in an emergency only call **0800 CHEMCALL (0800 243 622)**.

## SAFETY DATA SHEET

If additional safety information is required, refer to the Safety Data Sheet. For a copy, contact the customer centre on 0800 100 123.

## TRANSPORT

Do not carry this product on a passenger service vehicle.

## GENERAL DIRECTIONS

Before opening, carefully read warning statement, precautions instructions, first aid instructions and directions for use. Best results are obtained when weeds are not under stress. MULTIPLE is absorbed by the plant through the leaves, stems and roots. It is translocated into the plant where it interferes with cell division and elongation. For optimum results apply during good growing conditions when there is adequate soil moisture and weeds are growing actively. Applications during dry spells, cold conditions or when weeds are under stress will reduce effectiveness. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

## APPLICATION

**Aerial:** Apply 200-400L of water/ha. Use the half overlap opposite pass technique.

**Boom:** Apply up to 300L of water/ha using conventional boom equipment.

**Handgun:** Use a No. 6 tip at 1000-2000 kPa and ensure complete coverage for high volume coverage.

**Mistblower:** Use 40 ml/L of water to control woody weeds. With a ULV attachment use 200 ml/L of water using a number 3 or 4 hole. Thorough coverage is essential.

**Knapsack:** Apply using at least 400L of spray mix per ha. For spot treatment ensure thorough coverage.

**Weed wipers:** Ensure the wiper remains saturated while in use. Two passes in opposite directions are recommended.

## MIXING

Add the required quantity of MULTIPLE to spray tank partly filled with water and maintain agitation through filling and spraying.

## COMPATIBILITY

MULTIPLE is compatible with most commonly used herbicides as well as Toppel.

## SPRAYER DECONTAMINATION

Always wash tank and flush equipment thoroughly with clean water after use. To avoid subsequent injury to sensitive crops, immediately after spraying thoroughly remove all traces of MULTIPLE from mixing and spraying equipment as follows:

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Half fill the tank with clean water and add 500g of an alkali detergent per 100L of water. Circulate through the system for at least 15 minutes with agitation then drain.
3. Drain the whole system.
4. Nozzles and filters should be removed and cleaned separately.
5. Finally, rinse tank thoroughly with clean water, flush through hoses and boom and allow to drain.

## WITHHOLDING PERIOD

No withholding period is required when used as directed.

## ANIMAL SAFETY

Poisonous plants may become more palatable after spraying. If concerned that stock health may be affected, stock should be kept away from the treated area until plants have died down.

## SOIL RESIDUES

Do not plant peas, beans, clover, carrots, cucurbits, potatoes or tomatoes within 12 weeks of applying up to 0.5L/ha. In areas that more than 0.5L/ha has been applied do not plant susceptible crops within 6 months. Within this time check soil residues by planting out a small area first. Brassicas, cereal and ryegrass crops may be drilled anytime after application.

## CROP RESIDUES

Do not compost or mulch clippings from treated areas for 6 months after treatment. Do not use straw from MULTIPLE treated cereal crops for compost or mulch.

## CLOVERS

MULTIPLE is damaging to clovers. A rate of 100 ml/ha will severely suppress clovers for 2-6 months. Above this rate and clover may be removed from the pasture.

## RAINFALL

Do not spray if rain is expected within 3 hours of spraying.

## RESISTANCE MANAGEMENT:

MULTIPLE contains clopyralid, a **GROUP 4 HERBICIDE** from the pyridine carboxylic acid chemical group with the action like indole acetic acid (synthetic auxins) mode of action and picloram. To prevent or delay development of resistant biotypes, use MULTIPLE in tank mixture or rotation with herbicides of a different mode of action against the weed. Consult [www.resistance.nzpps.org/](http://www.resistance.nzpps.org/) for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

**DIRECTIONS FOR USE - Turf and amenity areas (golf courses, sports fields and playing fields)**

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

Weeds	Rate			Critical comments
	Broadcast	Spot spray		
		High volume ml/100L	Knapsack ml/10L	
Clover	0.7L/ha	70	17	Apply to actively growing plant.
Californian thistle	1L/ha	100	25	Apply from rosette to early flower. Re-treatment may be needed.
Bathurst bur, daisy, dandelion, hawkbeard, hawkbit, medics, Onehunga weed, oxeye daisy, narrow leaved plantain, thistles (annual and biennial)	1L/ha	100	25	Apply to actively growing plants.
Yarrow	1L/ha	100	25	Apply to actively growing foliage. Matted mature plants may need more than one application.
Catsear, fireweed	1.5L/ha	150	35	Apply to actively growing plants.
Ragwort, sow thistle, lotus	2L/ha	200	50	Apply to actively growing rosettes.
Cape daisy	1-2L/ha	200	50	Apply to actively growing rosettes. Use the low rate on seedlings.
Hemlock	NOT Recommended	100	25	Apply to actively growing plants.
Lupin	NOT Recommended	200	50	Apply to actively growing plants.
Old Man's Beard	12-25L/ha	500	125	
Broom, gorse	NOT Recommended	500	125	Apply to actively growing plants Oct-Jan.

**CAUTION:** Not for use in home gardens. For a period of 6 months following treatment, lawn clippings from treated areas must not be used in, or added to, compost heaps, used as mulch around sensitive plants or disposed of at any garden waste recycling centre.

**DIRECTIONS FOR USE - Crops and pastures**

Situation	Rate	Critical comments
Asparagus (established beds only) - To control Californian thistle, yarrow, clover and thistles		
Pre-cutting	0.5-1L/ha	Spray to within 3 days of cutting
During cutting	0.5L/ha	Do not cut within 3 days of application
Post-harvest	0.5-1L/ha	Apply over spears. Use directed application if spears are opening or ferns are present. Some damage may occur if sprayed over open spears or mature fronds.
Fodder and Sugar beet - To control Californian thistle and yarrow	0.5-1L/ha	Spray after the 2 true leaf stage of the crop and before bulbous root formation.
Field brassicas - To control Californian thistle, other thistles and yarrow	0.5-1L/ha	Apply after the 2 true leaf stage of the crop and before the crop closes over.
Cereals - Californian thistle and yarrow	0.3-1L/ha	Apply after the 2nd leaf but before the 2nd node crop stage. MULTIPLE can be tank mixed with Pasture Guard MCPA 750 to increase the spectrum of weeds controlled. When tank mixing with other herbicides use the timing recommended for that herbicide.
Volunteer potatoes	1L/ha	Apply after full potato emergence but before tuber formation.

**DIRECTIONS FOR USE - Crops and pastures continued**

Situation	Rate	Critical comments
Maize and sweetcorn, Californian thistle, yarrow, Bathurst bur Volunteer potatoes	0.5-1L/ha  1L/ha	Spray after the 3 expanded leaf stage of the maize but before the crop closes over.  Apply after full potato emergence but before tuber formation.
Orchards - Pipfruit, stonefruit and citrus. To control weeds listed in amenity section	See amenity section	For use in mature orchards to control susceptible weeds. Use as directed for turf amenity areas. Minimise contact with trees by direct spraying weeds.
Pasture - Hard to control thistles  Californian thistle	100-200ml/ha  250ml per 10L	To enhance the efficacy of Pasture Guard 2,4-D 680 or MCPA 750 herbicides against thistles that are known to be difficult to control, MULTIPLE may be added to the normal rate of the mix partner.  For use through a weedwiper. A double pass in opposite directions will give best results.
Shelter and ornamental trees	1-2L/ha	Apply as a directed spray. Use rates for amenity areas. Shelter trees such as conifers, willows, poplars, Casuarina, cryptomeria and eucalyptus are tolerant. If tolerance is not known, test on a small number of trees. Do not apply to legumes or Compositae.
Forestry (Radiata pine) - For the control of gorse, broom and wattle	10L/ha plus 1L/ha Eliminate	Apply as tree release. Add Accelerate penetrant at label rates to improve weed control. Spray over gorse and broom after flowering and during soft spring growth. Treat gorse up to 1 metre high for best results. For best control of wattle apply to actively growing plants less than 2 metres tall. Green wattle is not controlled. Silver and brush wattle are controlled. Temporary light tree damage in the form of distortion may occur particularly where trees are well above competing weeds.
	Handgun 0.5L/100L of water Mistblower 40ml/L or 200ml/L (ULV)	Obtain full coverage. Add Accelerate penetrant to improve weed control. For handgun application use a No. 6-8 tip at 1000-2500 kPa. For ULV spraying use the number 3 or 4 hole.

**CONSERVATION TILLAGE** - In conservation tillage (minimum tillage or direct drilling), MULTIPLE controls a range of hard to control weeds such as clovers, Californian and other thistles, plantains and yarrow. For broad spectrum weed control, MULTIPLE may be tank mixed with other herbicides such as Glyphosate G360 or 540, and Parable 250 (paraquat). Observe the directions and recommendations stated on the partner products label.

Weeds	Rate	Critical comments
Clovers, narrow leaved plantains, thistles	0.5-0.7L/ha	For best results apply to actively growing weeds.
Californian thistle	1L/ha	Apply from rosette to early flower. Re-treatment may be required.
Yarrow	1L/ha	Apply to actively growing yarrow autumn through to spring. For best results allow a minimum of 1 week between spraying and cultivation.

**WARRANTY AND LIMITATION**

**IMPORTANT:** Read this notice before opening the container.

The registrant warrants that when packed the active ingredient of this product is as specified on this label within accepted analytical tolerances. The registrant gives only those other warranties that are required by law in relation to this product and limits its liability to the cost paid by the claimant for the product. The registrant declines all liability for damage resulting from the handling, storage or use of this product. The user bears the risk from the handling, storage or use of this product. The registrant is not liable for any use of this product which is contrary to the label directions given or any Act or Regulation.

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