

WARNING
KEEP OUT OF REACH OF CHILDREN
ECOTOXIC

RALID

HERBICIDE

A broad spectrum herbicide for thistles and certain broadleaf weeds
for use on a range of CROPS and PASTURE,
TURF and in FOREST areas.

***ACTIVE INGREDIENT: Contains 300g/litre clopyralid as the
triisopropanolamine salt in the form of a soluble concentrate.***

5L

Registered pursuant to the ACVM Act 1997, No. P8963
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to HSNO Act 1996,
Approval Code HSR100933
See www.epa.govt.nz for approval controls.

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AGPRO

PLEASE READ THE LABEL COMPLETELY BEFORE USE

ECOTOXIC Herbicide. Not for use in home gardens.



HAZARD CLASSIFICATION

Hazardous to soil organisms
Hazardous to terrestrial vertebrates
Hazardous to the aquatic environment chronic Category 2

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.

ECOTOXIC

TOXIC IN THE AQUATIC ENVIRONMENT WITH LONG-LASTING EFFECTS. Do NOT contaminate an aquatic environment with chemical or empty container. Do NOT spray over or allow drift over an aquatic environment.

SELECTIVE HERBICIDE – VERY TOXIC TO SOME PLANT SPECIES. Some plants may be damaged or killed by contact with this product. Do NOT allow drift outside target area to occur.

Decontaminate equipment before use on sensitive plants (see Application Methods section).

HARMFUL TO TERRESTRIAL VERTEBRATES.
VERY TOXIC TO THE SOIL ENVIRONMENT.

QUALIFIED HANDLER

This product must be used under the personal control of suitably qualified handler during mixing, loading and application.

RECORD KEEPING

Records of use, as described in the relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS 8409), must be kept if using more than 3L of **RALID** within 24 hours in a place where the product is likely to enter air or water and leave the application area.

PERSONAL PROTECTION

When mixing or applying, wear waterproof gloves, chemical resistant boots and cotton overalls buttoned to the neck and wrist. Wash hands and exposed skin after handling. Wash personal protection clothing and equipment before re-use.

FIRST AID

For advice contact the National Poisons Centre (0800 764 766) or call a doctor. If swallowed, do NOT induce vomiting. Rinse mouth. If splashed in the eyes, rinse cautiously with water for several minutes. Remove contact lenses if present an easy to do. Continue rinsing. If irritation persists, get medical advice. If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with running water. Get medical advice if skin irritation persists.

STORAGE

Store in original container, tightly closed and in a locked, dry, cool well-ventilated area, well away from foodstuffs. Storage must be in accordance with the current version of New Zealand Standard for the Management of Agrichemicals (NZS 8409). Stores containing

Proper Shipping Name	Class	UN No.	Packing Group	Hazchem
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains clopyralid)	9	3082	III	3Z

Batch Number:

Date of Manufacture:

Batch/DOM oversticker



LBL056.1

1000L or more of **RALID** require secondary containment, signage and an emergency response plan.

SPILLAGE

Wear appropriate protective clothing to clean up spills. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in labelled waste containers. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

DISPOSAL

Do not contaminate any water supply with product or used container.
PRODUCT: Dispose of this product by using according to the label or at an approved facility.
CONTAINER: Triple rinse empty containers with water and add rinsate to spray tank. Recycle empty container at an approved recycling facility. Otherwise crush or puncture and bury in a suitably approved landfill. Do NOT use the container for any other purpose.

HANDLING PRECAUTIONS EQUIPMENT

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).
Flush equipment thoroughly with clean water after use according to Clean Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

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.

APPLICATION METHODS

RALID can be applied using conventional ground and aircraft spraying equipment. Flush equipment thoroughly with clean water after use. **Decontaminate before using on plants that are sensitive to RALID.** Crops susceptible to **RALID** include, but are not limited to: clovers, fruit trees, legumes, ornamentals, potatoes, tomatoes, vegetables and vines.

Aerial spraying: Use 200-400 L/ha water applied as a coarse quality spray as defined by the British Crop Protection Council (BCPC) and

American Society of Agricultural Engineers [S572] (ASAE). Apply with a calibrated aircraft using the half overlap opposite pass flying techniques.

Boom spraying: Use 300 L/ha water applied as a medium quality spray as defined by BCPC or ASAE.

'Carpet' type Weed Wipers: Follow the rotary weed wiper manufacturer's operating instructions to apply the herbicide mix. Ensure the wiper remains saturated while in use. Two passes in opposite directions are recommended. Drain and wash the wiper with water immediately after use.

High Volume Gun Application: Ensure thorough coverage of all weeds using a No. 6 tip or similar at 1000 - 2000 kPa.

Mistblower: Follow the manufacturer's instructions and ensure thorough coverage.

Knapsack Applications: When using a knapsack for broadcast application use at least 400 L of spray mix/ha. For spot treatment ensure thorough coverage.

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

CLEANING SPRAY EQUIPMENT RINSING

After using **RALID**:

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

DECONTAMINATION

Before using equipment with other products or on plants sensitive to **RALID**:

- Wash the tank and rinse the system as above, then quarter fill the tank and add an alkali detergent (e.g. liquid SURF®,

DRIVE®, at 500 ml/100 L water or the powder equivalent at 500 g/100L of water) and circulate through the system for at least 15 minutes. Do not use chlorine based cleaners.

- Drain the whole system. Remove filters and nozzles and clean them separately.
- Finally, flush the system with clean water and allow to drain.

MIXING

RALID mixes easily with water. Pour the measured quantity of **RALID** into the partly filled spray tank and add the remainder of the water. Mix well during filling.

TANK MIXTURE

Wettable powder or dry flowable formulations should be added to the spray tank first, followed by suspension concentrates (flowables), aqueous concentrates and then emulsifiable formulations.

COMPATIBILITY

RALID is compatible with most commonly used herbicides and cereal fungicides/insecticides.

RAINFASTNESS

Do NOT spray **RALID** if rain is likely within 3 hours.

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

WITHHOLDING PERIODS

Asparagus: Do not apply within 3 days of cutting spears.

Clippings from turf treated with RALID must not be composted or recycled.

Do not send any other treated vegetative plant material to a green waste recycling centre within 12 months after treatment.

For broad spectrum weed control in conservation tillage programmes, **RALID** may be mixed with other herbicides such as paraquat or glyphosate. Observe the directions and recommendations stated on the individual labels, when such products are used with **RALID** in tank mixtures.

CROP ESTABLISHMENT

Brassicas, cereal and ryegrass crops may be drilled any time after application of **RALID**. **CAUTION:** Do not plant susceptible crops (clover, peas, beans, potatoes, tomatoes,

carrot, cucurbits) within 2 weeks of applying up to 0.5 litres/ha of **RALID**. Where more than 0.5 L/ha is applied, do not plant susceptible crops within 6 – 12 months of treatment without sowing a small area first to check soil residues.

RESISTANCE MANAGEMENT

GROUP	4	HERBICIDE
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RALID contains a GROUP 4 HERBICIDE belonging to the pyridine carboxylic acids and continuous use of herbicides in this group may lead to a build-up of weeds resistant to it. To prevent or delay resistance, alternate with a herbicide from another group if possible and adhere to label instructions. To minimise this risk use strictly in accordance with label instructions and resistance management strategies at www.resistance.nzpps.org/

EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade.

For specialist advice in a chemical emergency call 0800 CHEMCALL (0800 243 622).

DIRECTIONS FOR USE

RALID is a selective herbicide to a wide range of crops except legumes and compositae (daisy family). It is compatible with most commonly used herbicides. **RALID** is damaging to clovers. At 100 ml/ha clovers in pasture may be severely suppressed for 2 – 6 months. Above 100 ml/ha clovers may be removed from sward.

AMENITY and NON-CROP AREAS				
Weeds	Rate			Comments
	Broadcast spray L/ha	Spot spray High volume ml/100 L	Spot spray Knapsack ml/10 L	
Clover	0.7	70	17	Apply to actively growing plants.
Californian thistle	1	100	25	Apply from rosette to early flower. Retreatment may be required.
Bathurst bur, daisy, dandelion, hawkbeard, hawkbit, medics, Onehunga weed, oxeye daisy, narrow-leaved plantain, thistles (annual and biennial)	1	100	25	Apply to actively growing plants.
Yarrow	1	100	25	Apply to actively growing foliage. Matted mature plants may need more than one application.
Catsear, fireweed	1.5	150	35	Apply to actively growing plants.
Ragwort, sow thistle, lotus	2	200	50	Apply to actively growing plants.
Cape daisy	1 - 2	200	50	Apply to actively growing rosettes. Use low rate on seedlings.
Hemlock, Lupin	Not recommended	100 200	25 50	Apply to actively growing plants.
Old Man's beard	12 - 25	500	125	
Broom, gorse	Not recommended	500	125	Apply to actively growing plants October – January.

CAUTION: Do not use on amenity areas that are being mown.

Situation	Rate/hectare	Weeds	Comments
Shelter and ornamental trees	1 – 2 litres	Refer to Amenity and Non-crop areas section of table	Apply as a directed spray. Use rates as for amenity areas. Shelter trees such as conifers, willows, poplars, <i>Casuarina</i> , <i>Cryptomeria</i> and <i>Eucalyptus</i> are tolerant. Many other tree and shrub types are also tolerant. If tolerance is not known, treat only a few plants to gain experience. Do not apply to legumes or Compositae.
Forestry – radiata pine	10 litres	Gorse, broom & wattles	Apply in mixture with triclopyr for tree release from gorse, broom and wattles. For best results apply to gorse up to 1 metre high and wattles up to 2 metres high. Silver wattle (<i>Acacia dealbata</i>) and brush wattle (<i>Albizia lophantha</i>) are controlled. Green wattle (<i>Acacia decurrens</i>) is not controlled. Temporary light tree damage in the form of distortion may occur particularly where trees are well above competing weeds. Handgun: 500 ml/100 litres Apply to full coverage through No. 6 – 8 tip at 1000 -2500 kPa. Add an organosilicone to improve weed control. Mistblower: 40 ml/litre water or 200 ml/L (ULV) For ULV attachment use the No. 3 or 4 hole. Add an organosilicone to improve weed control.

CROPS and PASTURES			
Situation	Rate/hectare	Weeds	Comments
Asparagus – established beds only	0.5 – 1.0 litres See comments	Californian thistle and other thistles, Clover and Yarrow Thistles: apply to rosettes only. Re-treatment may be required. Yarrow: apply to actively growing plants only. Re-treatment may be required. For clover control: apply only to large vigorously growing plants.	Pre-cutting: Apply 0.5 -1.0 litre/ha up to 3 days before cutting. During cutting: Apply 0.5 litres/ha up to 3 days before the next cut. Post-harvest: Apply 0.5 – 1.0 litres/ha over spears. Use a directed spray when spears are opening or ferns are present. Caution: If treatment is made over open spears or open fronds, some damage may occur.
Beets - Fodder beet and Sugar beet	0.5 – 1.0 litres	Californian thistle and yarrow.	Apply after crop has reached two true leaves and before bulbous root formation. RALID may be tank mixed with other beet herbicides.
Cereals	0.3 -1.0 litres	Californian thistles, yarrow and volunteer potatoes.	Apply 0.3 - 1.0 litre/ha after the crop has reached the two leaf stage and before the formation of the second node. RALID may be tank mixed with MCPA to improve the spectrum of control. Caution: Do not use treated straw for compost or mulch. For the control of volunteer potatoes, use 1 litre/ha after full emergence and before tuber formation.
Field Brassicas	0.5 -1.0 litres	Californian thistles, other thistles and yarrow	Apply after the crop has reached the two true leaf stage and before it closes over.
Maize and sweetcorn	0.5 – 1.0 litres	Bathhurst bur, Californian thistle and yarrow. Volunteer potatoes.	Apply 0.5 to 1 litre/ha after the maize or sweetcorn has three expanded leaves and before crop closes over. For volunteer potatoes, use 1.0 litre/ha and apply after full potato emergence but before tuber formation.
Orchards - Pip fruit, stone fruit and citrus	Refer to amenity section	Refer to amenity section for weed spectrum.	Apply in the pre-flower or early post-flower period. Direct spray to minimise drift with trees.
Pastures	100 – 200 ml with MCPA or 2,4-D 250 ml/10 L in a carpet wiper	Difficult to control thistles – see comments. Californian thistle	RALID may be added to 2,4-D or MCPA at the rate of 100-200 ml/ha to enhance efficacy on difficult to kill thistles. A double pass will give best results.

CONSERVATION TILLAGE			
RALID controls a range of hard-to-control weeds such as clovers, California and other thistles, plantains and yarrow in conservation tillage programmes (minimum tillage or direct drilling).			
Weeds	Rate/hectare	Comments	
Clovers, narrow leaved plantain, thistles	0.5 – 0.7 litre	For best results apply to actively growing weeds.	
Californian thistle	1 litre	Apply from rosette to early flower. Retreatment may be required.	
Yarrow	1 litre	Apply to actively growing yarrow, autumn to spring. For best results surface cultivate no less than one week after treatment.	

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CONDITIONS OF SALE

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