

## ECOTOXIC

KEEP OUT OF REACH OF CHILDREN  
READ LABEL BEFORE USE

# RALID XTRA

Controls a range of broadleaf weeds in amenity, non-crop areas, tree crops, certain arable crops, pastures, forests and conservation tillage.

**ACTIVE INGREDIENT: Contains 750g/kg Clopyralid as the potassium salt, in the form of a water soluble granule.**

## Net Content: 10kg

Registered pursuant to the ACVM Act 1997 No. P9949  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.  
Approved pursuant to the HSNO Act 1996, HSR101329  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approved controls.

**Registered to:**  
Shandong Rainbow International Co. Ltd,  
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No. 7000 East Jingshi Road Jinan, China 250101  
**NZ Address:** 6 Horlicks Place, Randwick Park,  
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### HAZARD CLASSIFICATION

Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3.



### ECOTOXICITY

**HARMFUL IN THE AQUATIC ENVIRONMENT WITH LONG LASTING EFFECTS.** Ralid Xtra must not be applied onto, over or into water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

**HARMFUL TO TERRESTRIAL VERTEBRATES.** Do not allow animals or birds access to the undiluted material or unused spray mix.

**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 the target area. Decontaminate equipment before use on sensitive plants (see Application Methods section). Use only according to label directions.

**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.**

**Do NOT add treated plants to compost heaps or use as mulch within 12 months of treatment.**

**Do NOT use treated plant material to make mushroom substrate.**

### QUALIFIED HANDLER

This product must be under the personal control of a suitably qualified trained handler when mixing, loading or applying.

### RECORD KEEPING

Records of use must be kept when 3 kg or more is applied within 24 hours in a place where the substance is likely to enter air or water and leave the application area.

### HANDLING PRECAUTIONS EQUIPMENT

Apply using accurately calibrated and maintained equipment in accordance with the current New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

### STORAGE

Store in the original container, tightly closed and in a secure, dry, cool, well ventilated area, well away from foodstuffs or seeds. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing more than 1000 kg of Ralid Xtra require signage, secondary containment and an emergency response plan.

### PERSONAL PROTECTION

When opening the container, mixing and applying wear chemical resistant cover overalls buttoned to the neck and wrist (or equivalent clothing), elbow length chemical resistant gloves and a face shield or goggles and respiratory protection to a minimum of Organic Vapour standard. Wash hands after handling. After each day's use wash contaminated clothing and personal protection equipment.

### SPILLAGE

Do not touch or walk through spilled material. Wear the protective equipment recommended above. Prevent entry into waterways, and drains. Contain and sweep up spilled material. Collect spilled product and place in sealable container for disposal.

Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the sealable container for disposal.

### DISPOSAL

Do NOT contaminate any water supply with product or used container.

**Product** -Dispose of this product only by using according to the label or at an approved facility.

**Container** -Triple rinse empty container and add rinsate to the spray tank. Recycle empty container at an approved recycling facility. Otherwise crush and bury empty container in a suitable landfill. Do NOT use the container for any other purpose.

### FIRST AID

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

### EMERGENCY RESPONSE

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

### APPLICATION METHODS

#### Application:

**The product must not be applied when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.**

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

**Aerial spraying:** Use 200-400 L/ha water applied as a coarse quality spray as defined by British Crop Protection Council (BCPC) system or the American Society of Agricultural and Biological Engineers (ASABE S572). Apply with a calibrated aircraft using the half overlap opposite pass flying techniques.

The person in charge of the application of this product and any person applying Ralid Xtra must ensure that the product is not applied within a specified distance of an area containing non-target plants. For this product the following buffer zones apply, according to the relevant application method, rate and scenario:

Crops	Application method	Maximum application rate (g/ha)	Buffer zone to protect downwind non-target plants (metres)
Pasture	Aerial	60	40
Asparagus, cereals, beet and maize	Aerial	300	160
Forestry	Aerial	3000	500

**Boom spraying:** Use up to 300 L/ha water applied as a medium quality spray as defined by the BCPC system or the ASABE S572 standard.

**'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 Applications:** 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 (NZS8409).

#### MIXING:

The following order should be followed:

- Quarter fill the spray tank and commence agitation.
- Add any wettable powders or dry flowable formulations with continuous agitation. Ensure products are completely dissolved or suspended.
- Add accurately measured volume of Ralid Xtra.
- Add water to half fill the spray tank.
- Add emulsifiable concentrates including selective grass herbicides or other broadleaf herbicides.
- Add water to three quarters fill the spray tank.
- If other adjuvants or a wetting agent are to be used, add these according to their label.
- Add water to bring to the final spray volume.

Only mix sufficient spray solution for immediate use and avoid storing.

**COMPATIBILITY:** Ralid Xtra is compatible with most commonly used herbicides and cereal fungicides/insecticides.

**RAINFASTNESS:** DO NOT spray Ralid Xtra if rain is likely within 3 hours.

#### CLEANING SPRAY EQUIPMENT: Rinsing

After using Ralid Xtra:

- 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.
- Quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L water and circulate throughout the entire system for at least 15 minutes. If using a concentrated laundry detergent use 250 g (or mL)/100L water. 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.

#### Decontamination

Before using equipment with other products or on plants sensitive to Ralid Xtra:

**Cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources.**

#### DIRECTIONS FOR USE

##### GENERAL INFORMATION:

Ralid Xtra is selective to a wide range of crops, but will damage legumes, including clovers and *Compositae* species (daisy family). At 40 gm/ha clovers in pasture may be severely suppressed for 2-6 months. Above 40 gm/ha, clovers may be removed from the sward.

The maximum application rate for Ralid Xtra is 0.6 kg ai/ha with a maximum of four applications per calendar year with a minimum of four weeks between applications, except when used on old man's beard or in forestry.

When used on old man's beard, Ralid Xtra must be applied by spot treatment at the maximum application rate of 7.5 kg ai/ha with a maximum of four applications per calendar year with a minimum of eight weeks between applications.

When used in forestry, the maximum application rate for Ralid Xtra is 3 kg ai/ha with a maximum of two applications per calendar year with a minimum of six months between applications. The Re-Entry Interval (REI) without wearing PPE is 12 hours.

#### WITHHOLDING PERIODS

**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.**

- No withholding period is required when used as directed, except for asparagus.
- Do not apply within 3 days of cutting asparagus (i.e. apply up to 3 days before cutting).

#### RESISTANCE MANAGEMENT

##### GROUP 4 HERBICIDE

Ralid Xtra is a pyridine carboxylic-acid herbicide (Group 4). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximise the effectiveness of herbicides, product containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

#### ANIMAL SAFETY

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

**NOTICE TO BUYER:** The manufacturer and vendors of Ralid Xtra warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

#### SPORTS GROUNDS, GOLF COURSES (and other non-residential amenity situations), and NON- CROP AREAS:

Weeds	Rate		Comments	
	Broadcast, g/ha	Spot Spray High Volume, g/100 L Knapsack, g/10 L		
Clover	280	28	6.8	Apply to actively growing plants.
Californian thistle	400	40	10	Apply from rosette to early flower. Retreatment may be required.
Bathurst burr, Daisy, Hawkesbeard, Hawkbit, Medics, Onelunga weed, Oxeye daisy, Narrow-leaved plantain, Thistles (annual and biennial).	400	40	10	Apply to actively growing plants.
Yarrow	400	40	10	Apply to actively growing foliage. Matted mature plants may need more than one application.
Catsear, Fireweed	600	60	14	Apply to actively growing plants.
Ragwort, Sow thistle, Lotus.	800	80	20	Apply to actively growing rosettes.
Cape daisy	400 - 800	80	20	Apply to actively growing rosettes. Use low rate on seedlings.
Hemlock, Lupin	Not recommended	40 80	10 20	Apply to actively growing plants.
Broom, Gorse	Not recommended	200	50	Apply to actively growing plants Oct-Jan. Add Silken Penetrant to improve weed control.
Old man's beard	4.8 - 10 kg/ha	200	50	

**CAUTION: DO NOT ADD TREATED PLANTS TO COMPOST HEAPS OR USE AS MULCH WITHIN 12 MONTHS OF TREATMENT.**

Situation	Rate, g/ha	Comments
<b>SHELTER AND ORNAMENTAL</b>	400-800	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 trees and shrubs are also tolerant. Consult your distributor or technical advisor for advice. If tolerance is not known, treat only a few plants to gain experience. Do not apply to legumes or <i>Compositae</i> .

#### CROPS and PASTURES

Situation	Rate, g/ha	Comments
<b>ASPARAGUS:</b> (Established beds only). To control Californian thistle, Yarrow, clover and thistles.		
<b>Pre-cutting:</b>	200-400	Apply up to 3 days before cutting.
<b>During cutting:</b>	200	Do not cut within 3 days of treatments.
<b>Post-harvest:</b>	200-400	Apply over spears. Use as a directed application if spears are opening or ferns are presents. CAUTION: Some damage may occur if treatment is made over open spears or mature fronds.
<b>BEETS: FODDER AND SUGAR BEETS</b> for the control of Californian thistle and yarrow.	200 - 400	Apply after the 2 true leaf stage of the crop and before bulbous root formation. Ralid Xtra may be mixed with Fender 320 EC Herbicide.
<b>FIELD BRASSICAS</b> for the control of Californian and other thistles and yarrow.	200 - 400	Apply after the 2 true leaf stage of the crop and before it closes over.
<b>CEREALS:</b> For the control of Californian thistle and yarrow.	120-400	Apply after the 2 true leaf stage of the crop and before the 2 node stage. To improve the spectrum of weeds controlled, Ralid Xtra may be tank mixed with other cereal herbicides, and should be applied at the timing recommended for these herbicides. CAUTION: Do not use straw from Ralid Xtra treated crops for mushroom substrate, compost or mulch.
For control of volunteer potatoes	400	Apply after the 2 true leaf stage of crop and before the 2 nodes stage. For volunteer potatoes, apply after full potato emergence but before tuber formation.

Situation	Rate	Comments
<b>FORESTRY:</b> (Radiata pine)		
	4 kg/ha in mixture with a triclopyr 600g/L Herbicide at 1L/ha	Apply to release trees from gorse, broom and wattles. Add Silken Penetrant to improve weed control. See specific instruction for spot spraying in Application Methods above. Temporary light tree damage, in the form of distortion, may occur particularly where trees are well above competing weeds. To suppress weeds and allow the trees to compete, apply to gorse and broom after flowering and during soft spring growth. Best results are obtained from treating gorse up to 1 metre high. For control of wattle, best results are achieved from treating actively growing plants less than two (2) metres tall. Good control of <i>Acacia dealbata</i> (silver wattle) and <i>Albizia lophantha</i> (brush wattle) is achieved. <i>Acacia decurrens</i> (green wattle) is NOT controlled.
<b>Hand gun:</b>		Apply to full coverage through a No. 6-8 tip at 1000-2500 kPa. Add Silken Penetrant to improve weed control.
<b>Mistblower:</b> 16 g/L or 80 g/L ULV		For ULV attachment use the No. 3 or 4 hole. Add Boost Penetrant to improve weed control.
<b>MAIZE AND SWEETCORN:</b> For the control of Californian thistle, yarrow and Bathurst burr.	200-400 g/ha	Apply after the maize and sweetcorn reaches the 3 leaf expanded stage but before crop closure.
For control of volunteer potatoes.	400 g/ha	For volunteer potatoes apply after full potato emergence but before tuber formation.
<b>ORCHARDS:</b> Pipfruit, stone fruit and citrus. For control of weeds listed in the amenity non-crop section.	See amenity section	Apply in the pre-flower or early post-flower period. Direct spray to minimize contact with trees.
<b>PASTURES:</b> Difficult to control thistles.	40-80 g/ha	Ralid Xtra can be used in combination with other phenoxy and pyridine herbicides to enhance efficacy on difficult to control/resistant weed species in pasture. Add Ralid Xtra to the normal rate of the mixing partner.
Californian thistle	100 g/10L in a carpet wiper.	Add double pass will give best results. Add Silken Penetrant to improve weed control.

#### CONSERVATION TILLAGE:

Ralid Xtra controls a range of hard to control weeds such as clovers, Californian and other thistles, plantains and yarrow in conservation tillage programmes (minimum tillage or direct drilling).

WEEDS	RATE g/ha	COMMENTS
Clovers, narrow-leaved plantain, thistle	200-280	For best results apply to actively growing weeds.
Californian thistle	400	Apply from rosette to early flower. Retreatment may be required.
Yarrow	400	Apply to actively growing yarrow, autumn to spring. For best results surface cultivate no less than one week after treatment.

For broad spectrum weed control in conservation tillage programmes, Ralid Xtra may be mixed with other herbicides such as glyphosate. Observe the directions and recommendations on the individual labels, when other products are tank mixed with Ralid Xtra.

#### CROP ESTABLISHMENT:

Brassicas, maize, cereal and ryegrass crops may be drilled any time after application of Ralid Xtra.

#### CAUTION:

Do not plant susceptible crops (clover, peas, beans, potatoes, tomatoes, carrots, cucurbits) within 12 weeks of applying up to 0.20 kg/ha of Ralid Xtra. Where more than 0.20 kg/ha is applied, do not plant susceptible crops within 6 - 12 months of treatment without sowing a small area first to check soil residues.

Batch Number:

Date of Manufacture:



LBL090.1