

WARNING – ECOTOXIC


ravensdown

HERBICIDE

Glyphosate 360

A water soluble herbicide for
non-selective control of many
annual and perennial weeds

ACTIVE INGREDIENT:

Contains 360g/litre glyphosate as the
isopropylamine salt in the form of a
soluble concentrate.



Registrant: Ravensdown Ltd
292 Main South Road
Hornby, Christchurch 8042
New Zealand
Phone: 03 353 4600
ravensdown.co.nz

BATCH:
D.O.M:

NET CONTENTS
20 Litres

ravensdown 

GLYPHOSATE 360

**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 CLASSIFICATION: 6.1D, 6.4A, 9.1B

TOXICITY

Harmful - May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation.

ECOTOXICITY

Toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Non-selective herbicide - toxic to plants. Avoid contact with foliage or green stems of fruit crops, desirable plants and trees.

Decontaminate spray equipment before use on a sensitive crop. Do not apply directly into or onto water.

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 spray drift over aquatic environments. Aerial application is recommended in non-crop areas only.

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 area away from foodstuffs, fertilisers and seeds. Stores containing 1000L of GLYPHOSATE 360 are subject to signage and secondary containment. More than 1000L require emergency response plans.

PERSONAL PROTECTION

Avoid contact with skin, eyes and inhalation of spray mist.

When handling wear protective clothing such as waterproof gloves, 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.

RECORD KEEPING

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

EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use. DO NOT mix or store this product in galvanised or unlined steel (except stainless steel) containers or spray tanks. Glyphosate or solutions of glyphosate may react with such containers to produce hydrogen gas, which may form a highly combustible gas which may flash or explode if ignited.

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.

FIRST AID

Please replace the wording with "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. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor if you feel unwell.

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.

SHELF LIFE

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.

Registered pursuant to the ACVM Act 1997, P7129. See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSN0 Act 1996, Code: HSR000227. See 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

GENERAL DIRECTIONS

GLYPHOSATE 360 is a broad spectrum, non-selective, non-residual, foliar absorbed and translocated herbicide for control of emerged weeds only. It is deactivated immediately upon contact with the soil and does not provide residual weed control. Plants should be actively growing, free of stress with clean foliage at time of spraying. Do not treat plants that are silt laden or affected by drought, frost, water logging, grazing, or previous herbicide application.

Do not spray if rain is likely within 6 hours.

The effects of GLYPHOSATE 360 may not be apparent for 3-7 days depending on weather conditions, weed species and the herbicide rate used. Some perennial weeds may not show effects for 14-21 days.

Accelerate penetrant may be used with GLYPHOSATE 360 to increase the rate of uptake into certain weeds.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

APPLICATION

Boom Equipment

GLYPHOSATE 360 can be applied in spray volumes up to 200L per hectare using fan nozzles at pressures in the range of 240-280 kPa. Boom height should be set so a double overlap of nozzle pattern is achieved at the top of the target plants.

Aerial Equipment

For use in forest and non-crop areas only. GLYPHOSATE 360 can be applied by aircraft in spray volumes of up to 100L per hectare. Increase spray volumes in hilly terrain to ensure maximum target contact.

Handgun and Knapsack

Ensure a fine spray pattern to give complete coverage. Handgun spraying pressures of 1000-2000kPa and No.4 to No.6 spray tips recommended.

Wiper Equipment

Mix only enough for immediate use. Plants must be clean and dry and the wiper fully saturated. Apply up and down slopes for effective applications. High weed density: reduce speed and apply twice in opposing directions.

MIXING AND COMPATIBILITY

Reduced results may occur if dirty water (e.g. from ponds), hard water containing calcium salts or water containing metal ions (e.g. iron) is used. Ensure tank is free of any residue of previous spray materials.

Half fill the spray tank with clean water and add the required amount of GLYPHOSATE 360, agitate and continue to fill the tank. Add Accelerate penetrant where required. If mixing with other herbicides, ensure these are fully dispersed before adding Ravensdown GLYPHOSATE 360. Be sure to observe all precautions, especially plant back periods when using other herbicides. Use tank mixes promptly.

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 GLYPHOSATE 360 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 125g 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.

RESISTANCE MANAGEMENT

GLYPHOSATE 360 contains glyphosate, a **GROUP 9 HERBICIDE** from the glycine chemical group with the inhibition of EPSP synthase mode of action. Naturally occurring weed biotypes resistant to glyphosate are known to exist. These become more prevalent after many years of continuous use of the product. Species with known resistant biotypes include Italian and perennial ryegrass. To prevent or delay development of resistant biotypes, use GLYPHOSATE 360 in tank mixture or rotation with herbicides of a different mode of action against the weed. Consult www.resistance.nzpps.org/ for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

SITUATIONS FOR USE

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.

Situations	Crop	Critical comments
Aquatic areas - drains and waterways		Do not spray until 75% of the weed is above water level. Do not allow submergence for 6 hours post spraying.
Forestry - For control of all listed weeds prior to planting of forest or nursery or around established trees		For rates of weeds see Weed Control Table. Do not allow spray contact with established trees.
Industrial and non-agricultural areas - as a knockdown or selective if spot spraying		Treat weeds as per Weed Control Table.
Market gardens - as a knock down prior to seeding, transplanting and after harvest clean up	All vegetables.	For best results do not disturb weeds by grazing or cultivation for 1 day post spray of annual weeds and 10 days post spraying of perennial weeds. Cultivate within 21 days of spraying to ensure control. Do NOT sow until a satisfactory seed bed has been prepared. An appropriate residual herbicide can be used as a tank mix with GLYPHOSATE 360.
Minimum tillage - for total weed control prior to seeding	Cereals, forage brassicas, pasture & leguminous crops.	For best results, do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds, and 10 days post spraying of perennial weeds. To ensure control and avoid re-spraying newly germinated weeds work sprayed area by full cultivation or the seeding operation within 3 weeks of spraying. Do not sow until a satisfactory seed bed has been prepared. For improved control of white clover, tank mix with Multiple, Granit or Dicam 480. Read respective labels fully before applying, and observe recommended plant back periods.
Orchards and vineyards - as a knockdown prior to establishment or where plants are 3 years old or over	Apple, citrus, grapevines, kiwifruit, pears and stonefruit	Use a directed or shielded spray. DO NOT let spray contact green foliage or new growth. Spray before the bloom stage of crop. GLYPHOSATE 360 can be tank mixed with an appropriate herbicide for residual control.
Pre-Harvest - for control of emerged weeds and as a clean-up to enhance harvesting	Wheat, barley, oats and threshing peas.	Spray 7-12 days pre-harvest. Grain moisture should be below 30%. Withholding period: 7 days. Do not spray seed or malting crops. Do not spray undersown crops.
Recreational areas - for weed control prior to establishment and as a clean-up around established areas.	Lawns, ornamentals, parks and reserves	Established Plants: Use a directed or shielded spray or with a wiper around plants avoiding any spray contact on green or growing points of plant.

WEED CONTROL TABLE		
Weeds controlled	Rate	Critical comments
Amaranthus, barley grass, capeweed, cleavers, volunteer cereals, spiny emex, storksbill, fumitory, mintweed, Patersons curse, prairie grass, ryegrass, saffron thistle, vulpia hairgrass, subterranean clover, wild mustard, wild turnip	1-2L/ha Handgun: 200ml/100L of water Knapsack: 20ml/10L of water Wiper: 33% Solution	Use the high rate on weeds greater than 14cm across or 14cm high.
Australian sedge	6L/ha Handgun: 1L/100L of water Knapsack: 100ml/10L of water	Best results when sprayed in summer. Do not disturb for 4 weeks post treatment. Wiper: 33% solution
Floating sweet grass, reed sweet grass		
Johnson grass, kikuyu, mercer grass (non-aquatic)		Best results when plants are in early seed head.
Ragwort		Ensure adequate leaf area for spray uptake. Wiper: 33% solution. Plants should be above pasture to avoid non-target contact. Use a double pass for best results. Plants become more palatable to stock after treatment, so remove until brownout occurs.
Rattail		Use high water volumes (200L/ha) in autumn when foliage is green. Do not disturb treated plants for 21 days post spray.
Rautahi (cutty grass), rushes, tall fescue		Spray in Jan-March. Do not burn or slash for 4 weeks post spraying.
Californian thistle	4L/ha Handgun: 1L/100L of water Knapsack: 100ml/10L of water	Spray plants after flower bud stage. Improved results obtained when thistles are mowed 10 days post spraying.
Paspalum		Spray when plants are at early seed-head.
Couch	3-6L/ha Handgun: 1L/100L water Knapsack: 100ml/10L water	Spray at the early seed-head stage when plants are actively growing. Use the low rate for suppression only. Pre-Harvest: Use 4L/ha. GLYPHOSATE 360 will not control un-emerged growth.

WEED CONTROL TABLE		
Weeds controlled	Rate	Critical comments
Gorse	Handgun: 1L/100L of water	Add Accelerate at 200ml/100L. Spray when plants are at early seed-head. Ensure complete coverage. Re-growth may occur after 1 year. Retreat if required.
Nodding thistle	Wiper only: 33% solution	A double pass may be required for good coverage. Spray spring to autumn on actively growing plants with at least 10cm of growth exposed to wiper.
Old mans beard	Handgun: 1-2L/100L of water Knapsack: 200ml/10L of water	Apply before the first leaf browns off. Use the higher rate on plants with stems greater than 1cm in diameter. If complete coverage is not possible, cut plants in the winter and treat at the high rate when re-growth is at least 0.5-1m in length.
Pampas grass, toetoe	Handgun: 1-2L/100L of water Knapsack: 200ml/10L of water	Spray from spring to autumn. Do not spray flowering plants.
Ring fern	1-3L/ha Handgun: 300ml/100L of water Knapsack: 30ml/10L of water	Use the high rate for control Use 1-2L/ha for pasture manipulation.
Barberry	Handgun: 1L/100L of water Knapsack: 100ml/10L of water	Best results when sprayed mid to late Summer after flowering to full fruit.
Blackberry	9-20L/ha Handgun: 1-1.5L/100L of water Knapsack: 100ml/10L of water	Best results when sprayed mid to late summer after flowering to full fruit (Dec-Apr) but before frosts occur. Allow 6-10 weeks before slashing/burning or over-sowing. Use high rate for hard to kill blackberry, aerial applications and where no follow up treatment is planned.
Bracken	9L/ha Handgun: 1L/100L of water Knapsack: 100ml/10L of water	Spray mid summer to mid winter when fronds are open. Burning after treatment will help pasture establishment. The addition of Accelerate at 250ml/100L of water is recommended.
Broom		Spray late spring to early summer when plants are in full leaf. The use of Accelerate at 200ml/100L of water is recommended.
Buddleia		
Dock		Best results when sprayed spring-summer before seed heads form.
Indian doab, mercer grass (aquatic)	9L/ha Handgun: 1L/100L of water Knapsack: 100ml/10L of water	Best results when plants are at early seed head.
Willow		Spray to ensure good leaf coverage from mid to late summer.
Browntop	3L/ha Handgun: 0.5L/100L of water Knapsack: 50ml/10L of water	If plants are greater than 10cm high, graze or burn then treat re-growth.
Potato (self set)		The addition of Accelerate is recommended at 25-50ml/100L of water.
Ryegrass (perennial)	1.5-3L/ha	Use the low rate only when cultivation is to follow treatment. Use Accelerate 50-100ml/100L of water.
Yarrow	3-6L/ha	For best results cultivation should follow treatment. Only use the lower rate when a competitive crop is planted after treatment.

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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