

**DANGER – KEEP OUT OF REACH OF CHILDREN. ECOTOXIC**

  
**ravensdown**

**HERBICIDE**

# Pasture Guard<sup>®</sup> 2,4-D 680

A broadleaf herbicide for control of most species of thistles and many common weeds in pasture and non-crop situations.

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**ACTIVE INGREDIENT:**

Contains 680g/litre 2,4-D as the ethyl hexyl ester in the form of an emulsifiable concentrate.

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**Registrant: Ravensdown Ltd**

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BATCH:

D.O.M:

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



# PASTURE GUARD® 2,4-D 680 | 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, 6.3B, 6.5B, 6.9A, 9.1A, 9.2A, 9.3C	
<b>QUALIFIED PERSON:</b> This product must be under the control of a Qualified Person or Contractor, as per Part 4C of the Hazardous Property Controls EPA Notice.	
<b>TOXICITY</b> <b>Toxic</b> - May cause organ damage from repeated oral exposure at high doses. <b>Harmful</b> - Harmful if swallowed. May cause mild skin irritation. May cause sensitisation from prolonged skin contact.	<b>ECOTOXICITY</b> <b>Very toxic to aquatic organisms.</b> Avoid contamination of any water supply with chemical or empty container. Do not apply directly into or onto water. <b>Very toxic to the soil environment.</b> Selective herbicide - very toxic to some plant species. Decontaminate spray equipment before use on a sensitive crop. <b>Beware - apply this product carefully. Spray drift may cause serious damage to desirable plants.</b> Ensure compliance with any relevant regional air management plans. Do not allow spray drift over aquatic environments. Harmful to terrestrial vertebrates.

HANDLING PRECAUTIONS	
<b>STORAGE</b> 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. Avoid storing this product with Class 1, 2, 3.2, 4 or 5 substances. Stores containing 100L of PASTURE GUARD 2,4-D 680 are subject to signage and secondary containment. More than 100L require emergency response plans. <b>PERSONAL PROTECTION</b> Avoid contact with skin and eyes and do not inhale spray mist. When handling wear protective clothing such as chemically resistant gloves and boots, eye protection and overalls. 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.	<b>EQUIPMENT</b> Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use. <b>RECORD KEEPING</b> Records of use as described in NZS 8409 Management of Agrichemicals must be kept. <b>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. 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.

<b>FIRST AID</b> If medical advice is needed, have product container or label at hand. If swallowed, Rinse mouth. DO NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If skin irritation or rash occurs: Get medical advice. Wash contaminated clothing before reuse. If contact with eyes occurs, wash out immediately with water for several minutes. 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.	<b>MIXING</b> Mix required quantity in spray tank partly filled with water and maintain agitation through filling and spraying. <b>COMPATIBILITY</b> PASTURE GUARD 2,4-D 680 is compatible with most commonly used herbicides. <b>SPRAYER DECONTAMINATION</b> 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 PASTURE GUARD 2,4-D 680 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.
<b>SPILLAGE</b> In case of spillage, wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Prevent material coming into contact with Class 1, 2, 3.2, 4 or 5 substances. 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.	<b>PASTURE MANAGEMENT</b> Grazed the area prior to spraying to reduce clover leaf and to expose target weeds. Leave for one week to allow weeds to recover from grazing. <b>CLOVERS</b> PASTURE GUARD 2,4-D 680 may cause damage to clovers, particularly red, subterranean and suckling clover. Where possible use the lower recommended rate. <b>RESISTANCE MANAGEMENT:</b> PASTURE GUARD 2,4-D 680 contains 2,4-D, a [GROUP 01 HERBICIDE] from the phenoxy carboxylic acid chemical group with the action like indole acetic acid (synthetic auxins) mode of action. Naturally occurring weed biotypes resistant to phenoxy carboxylic acids are known to exist. These become more prevalent after many years of continuous use of the product. Species with known resistant biotypes include nodding thistle, slender winged thistle and buttercup. To prevent or delay development of resistant biotypes, use PASTURE GUARD2,4-D 680 in tank mixture, or rotation with herbicides of a different mode of action against the weed. Consult <a href="http://www.resistance.nzpps.org/">www.resistance.nzpps.org/</a> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

<b>EMERGENCY RESPONSE</b> In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call <b>0800 CHEMCALL (0800 243 622).</b> <b>SAFETY DATA SHEET</b> If additional safety information is required, refer to the Safety Data Sheet. For a copy, contact the customer centre on 0800 100 123. <b>TRANSPORT</b> Do not carry this product on a passenger service vehicle. <b>SHELF LIFE</b> 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.	<b>GENERAL DIRECTIONS</b> Before opening, carefully read warning statement, precautions instructions, first aid instructions and directions for use. Best results are obtained when weeds are in the seedling stage of growth and are actively growing. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. <b>APPLICATION</b> <b>Aerial:</b> Use 60-100L of water per hectare. <b>Boom:</b> Use 100-200L of water per hectare in most situations. For hard to kill weeds use 200-500L of water per hectare. <b>Spot Spraying:</b> Use 500ml PASTURE GUARD 2,4-D 680 per 100L of water and ensure thorough coverage of the plant. <b>Knapsack:</b> For annual weeds use 55ml per 15L of water. For perennial weeds use 90ml per 15L of water.
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RECOMMENDATIONS FOR PASTURE AND NON-CROP SITUATIONS		
<b>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.</b>		
Weed table	Rate	Critical comments
Alligator weed, alseed, apple of Peru, Australian flax, bachelors button, Bathurst bur, beggars tick, bitter cress, black nightshade, buttercups, Californian poppy, Canadian fleabane, cape tulip, castor oil plant, charlock, chicory, clovers, combind, cudweed, doves foot, fathen, field cress, groundsel, hawkbit, hawksbeard, hemp nettle, horehound, marsh cress, Mexican devil, mintweed, monkey musk, mouse-ear chickweed, oxtongue, penny cress, pipiriri, poroporo, red dead-nettle, selfheal, shepherds purse, tansy, teasel, thistles (sow, Scotch, star, welted), twin cress, vetch, wart cress, white mustard, wild carrot, wild mustard, wild parsnip, wild radish, wineberry	1.5-3L/ha	Use the lower rate for seedlings and the higher rate for plants past this growth stage.  Buttercups and thistles may be better controlled using Pasture Guard MCPA 750 and Pasture Guard Nurture.
Seedlings only: Cape weed, cut-leaved geranium, daisies, docks, fumitory, inkweed, lupin, Onehunga weed, spurrey, storksbill, tutu, vipers bugloss	1.5-3L/ha	These weeds will only be controlled in the seedling stage of growth. Plants should be actively growing and free from stress.
Annual buttercups, bur meddick, catsear, cresses, dandelion, hedge mustard, hemlock, redroot and Scotch thistle	0.75-1.5L/ha	Use the low rate on seedlings only.
Burdock, Californian thistle, creeping mallow, fennel, fireweed, foxglove, hoary cress, nettles, wild portulaca and willow weed	2-3L/ha	Spray when plants are young and actively growing. The addition of a surfactant is required when spraying foxglove.
Field bindweed, greater bindweed and Californian thistle	2-3L/ha	Spray when plants are young and actively growing. Repeat applications are needed for control.
Nodding thistle	1.5L/ha	For small rosette with a root crown less than 2cm in diameter.
	2L/ha	Rosette with a root crown of 2-4cm in diameter. Plants with a root crown greater than 4cm are not well controlled.
Parsley dropwort	1.5L-2L/ha	Spray when plants are actively growing.
Variegated thistle	1.5L/ha	Seedlings only
	2L/ha	Rosettes less than 15cm in diameter.
Winged thistle	1.5L/ha	Seedlings only
	2L/ha	Rosette prior to flower stalk emergence.

TREATMENT OF SPECIFIC WEEDS			
Weeds	Method	Rate	Critical comments
Australian sedge, rushes (without pith)	Aerial and boom	22L plus 8.8L Parable 250 in 500L of water	Use a surfactant. Over-sow treated area. Apply between November and April.
	Spot spraying	550ml plus 100ml Parable 250 in 100L of water.	Use a surfactant. Apply between November and April.
Cape tulip, goats rue seedlings	Boom	3-6L per hectare in 300-500L of water	
Ragwort	Boom	1.5-3L per hectare in 200-300L of water	PASTURE GUARD 2,4-D 680 will control seedling and many plants up to the rosette stage. Regrowth will not be controlled even with repeat applications.
Rushes (containing pith)	Boom	6L per hectare in 200L of water	Mow rushes and spray when regrowth is 30-40cm in height.
	Spot spraying	500ml per 100L of water	Use a surfactant. Best results when spraying in Spring.
Spanish heath	Boom	1.5L in 200L of water per hectare	Spray during active Spring growth.
	Spot spraying	500ml in 100L of water	Ensure spray gives thorough coverage.
Willows, poplars	Aerial	6L per hectare in 200-400L of water	Spray in late Spring to fully leaved trees. Two applications 12 months apart may be necessary.
	Hand Gun	350ml per 100L of water	
	Stump swabbing, frilling	250ml per 10L of diesel or waste oil	Apply to freshly cut surface or frill immediately with a paint brush or knapsack sprayer.

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

Registered pursuant to the ACVM Act, No.P8364.  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.  
Approved pursuant to the HSN0 Act 1996, Code: HSR000962. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

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