

DONAGHYS

Cronus

Controls clovers, yarrow, plantains, Californian and other thistles
in a range of crops, turf, forestry and pre-cultivation.

10
Litre

Active Ingredient:
Contains 300g/litre
clopyralid as the
monoethanolamine salt,
in the form of a soluble
concentrate.

KEEP OUT OF REACH OF CHILDREN - DANGER

INSTRUCTIONS - DONAGHYS CRONUS

DANGER

DIRECTIONS FOR USE – READ LABEL BEFORE USE

REGULATORY STATEMENTS: It is an offence for the users of this product to cause residues exceeding the relevant MRL in the Food

Notice: Maximum Residue Levels for Agricultural Compounds.

Before opening, carefully read warning statement, precaution instructions, first aid instructions and directions for use. Best results are obtained when weeds are not under stress. Donaghys Cronus is absorbed by 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.

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 Donaghys Cronus from mixing and spraying equipment as follows:

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Half fill tank with clean water and add 500 g of 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. Rinse the tank thoroughly with clean water, flush through hoses and boom and allow to drain.

MIXING:

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

COMPATIBILITY:

Donaghys Cronus is compatible with most commonly used herbicides.

WITHHOLDING PERIOD:

No withholding period is required when used as directed.

APPLICATION: Refer to booklet for application rates

IMPORTANT NOTICE - CONDITIONS OF SALE ACCEPTANCE AND USE OF THIS PRODUCT WILL BE DEEMED TO BE ACCEPTANCE OF THESE CONDITIONS OF SALE.

Results from the use of this product may be affected by factors beyond Donaghys control. These factors include but are not limited to mixing, use, time of application, weather, crop, crop lifecycle and resistance to the active ingredient, even though the product is reasonably fit for its stated purpose and label directions have been followed. Donaghys will replace any defective product free of charge, but to the extent permitted by law all other warranties, representations, conditions or obligations whether imposed or implied by law or otherwise, and the manufacturer's and supplier's liability for any indirect special or consequential losses or damages of any kind arising out of the supply and/or use of this product, including where it arises out of negligence, are expressly excluded. IN ANY EVENT, TO THE EXTENT PERMITTED BY LAW, THE MANUFACTURER'S AND SUPPLIER'S LIABILITY ARISING OUT OF THE SUPPLY AND OR USE OF THIS PRODUCT IS LIMITED TO THE AMOUNT PAID FOR THE SPECIFIC PRODUCT.

UN number: 3082 DG Class: 9 Packaging Group: III

Registered pursuant to the ACVM Act 1997, No P9127
See www.foodsafety.govt.nz for registration conditions.
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains clopyralid 300 g/L).
HSNO Number: HSR101196 (See www.epa.govt.nz for controls)

ZPA/PMB16 Jul19 PH-020886-2

HSNO HAZARD CLASSIFICATION: 8.3A, 9.1B, 9.2A, 9.3C

DONAGHYS
PERFORMANCE FIRST

REGISTERED TO AND MANUFACTURED BY:
DONAGHYS LTD.
16 SHEFFIELD CRESCENT,
PO BOX 20 449, CHRISTCHURCH,
FREEPHONE: 0800 942 006, WWW.DONAGHYS.COM



DONAGHYS CRONUS

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 1000-2000kPa and ensure complete coverage for high volume coverage.

MISTBLOWER: Use 40ml/L of water to control woody weeds. With a ULV attachment use 200ml/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.

ANIMAL SAFETY

Poisonous plants may become 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 may be drilled any time after application.

CROP RESIDUES

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

CLOVERS

Donaghys Cronus is damaging to clovers. A rate of 100ml/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 application.

APPLICATION RATES CROP AND PASTURE

SITUATION	RATE	COMMENTS
<p>Asparagus (established beds only) to control Californian thistle, yarrow, clover and thistles</p> <p>Pre-cutting</p> <p>During cutting</p> <p>Post-cutting</p>	<p>0.5-1L/ha</p> <p>0.5L/ha</p> <p>0.5-1L/ha</p>	<p>Spray to within 3 days of cutting.</p> <p>Do not cut within 3 days of application.</p> <p>Apply over spears. Use directed application if spears are opening and ferns are present. Some damage may occur if sprayed over open spears or mature fronds.</p>
<p>Fodder, Sugar Beet To control Californian thistle and yarrow</p>	0.5-1L/ha	Spray after the 2 true leaf stage of the crop and before bulbous root formation.
<p>Field Brassicas To control Californian thistle, other thistles and yarrow</p>	0.5-1L/ha	Apply after the 2 true leaf stage of the crop and before the crop closes over.
<p>Cereals Californian thistle and yarrow</p> <p>Volunteer potatoes</p>	<p>0.3-1L/ha</p> <p>1L/ha</p>	<p>Apply after the 2nd leaf but before the 2nd node crop stage. Donaghys Cronus can be tank mixed with Donaghys Broadleaf Kill MCPA to increase the spectrum of weeds controlled. When tank mixing with other herbicides use the timing recommended for that herbicide.</p> <p>Apply after full potato emergence but before tuber formation.</p>
<p>Maize, Sweetcorn Californian thistle, yarrow, Bathurst bur</p> <p>Volunteer potatoes</p>	<p>0.5-1L/ha</p> <p>1L/ha</p>	<p>Spray after the 3 expanded leaf stage of the maize but before the crop closes over.</p> <p>Apply after full potato emergence but before tuber formation.</p>
<p>Orchards Pipfruit, stone fruit and citrus To control weeds listed in amenity section</p>	See amenity section	For use in mature orchards to control susceptible weeds. Use as directed for turf amenity areas. Minimize contact with trees by direct spraying weeds.

APPLICATION RATES CROP AND PASTURE

SITUATION	RATE	COMMENTS
<p>Pasture Hard to control thistles</p> <p>Californian thistle</p>	<p>100-200ml/ha</p> <p>250ml/ha</p>	<p>To enhance the efficacy of Donaghys Broadleaf Kill 2,4-D Ester 680 or Donaghys Broadleaf Kill MCPA herbicides against thistles that are known to be difficult to control, Donaghys Cronus may be added to the normal rate of the mix partner.</p> <p>For use through a weedwiper. A double pass in opposite directions will give best results.</p>
<p>Shelter and ornamental trees</p>	<p>1-2L/ha</p>	<p>Apply as 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.</p>
<p>Forestry (Radiata pine) For the control of gorse, broom and wattle</p>	<p>10L/ha plus Donaghys Tri600 1L/ha</p>	<p>Apply as tree release. Add Donaghys Wetter Sticker 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 meter high for best results. For best control of wattle apply to actively growing plants less than 2 meters tall. Green wattle is not controlled. Silver and brush wattle are controlled.</p> <p>Temporary light tree damage in the form of distortion may occur particularly where trees are well above competing weeds.</p>
	<p>Handgun 0.5L/100L water</p> <p>Mistblower 40ml/L or 200ml/L (ULV)</p>	<p>Obtain full coverage. Add Donaghys Wetter Sticker penetrant to improve weed control. For handgun application use a No. 6-8 tip at 1000-2500kPa.</p> <p>For ULV spraying use No. 3 or 4 hole.</p>

CONSERVATION TILLAGE

In conservation tillage (minimum tillage or direct drilling), Donaghys Cronus controls a range of hard to control weeds such as clovers, Californian and other thistles, plantains and yarrow. For broad spectrum weed control, Donaghys Cronus may be tank mixed with other herbicides such as Donaghys Grunt 600. Observe the directions and recommendations stated on the partner products label.

**TURF AND AMENITY AREAS
(GOLF COURSES, SPORTS FIELDS AND PLAYING FIELDS)**

WEEDS	RATE			COMMENTS
	BROADCAST	SPOT SPRAY		
		HIGH VOLUME ML/100L	KNAPSACK ML/10L	
Clover	0.7L/ha	70	17	Apply to actively growing plants.
Californian thistle	1L/ha	100	25	Apply from rosette to early flower. Re-treatment may be needed.
Bathurst Bur, daisy, dandelion, hawkesbeard, hawkbit, medics, Onehunga weed, oxeye daisy, narrowleaved 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 mans beard	12-25L/ha	500	125	
Broom, gorse	Not recommended	500	125	Apply to actively growing plants Oct-Jan.
<p>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.</p>				

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

DONAGHYS CRONUS

HSNO HAZARD CLASSIFICATION: 8.3A, 9.1B, 9.2A, 9.3C

APPROVED HANDLER: This product must be used under the control of an approved handler when used in any quantity

TRACKING: This product must only be sold to an approved handler

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

WARNING: Read label before use. This substance may be harmful if swallowed, inhaled or absorbed through the skin. May cause respiratory sensitisation if inhaled. MAY CAUSE EYE IRRITATION. Avoid contact with eyes.

PERSONAL PROTECTION: Avoid contact with skin and eyes, and inhalation of spray mist. When applying or mixing, wear eye protection, water proof gloves, chemical resistant boots made of material such as rubber, nitrile, polyvinyl chloride and cotton overalls buttoned, to the neck and wrist. Do not eat, drink or smoke while using. Wash hands and exposed skin after use.

STORAGE: Store in original container tightly closed and away from foodstuffs in a cool, dry, secure area. Avoid contamination of seeds, fertilisers and other pesticides. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals NZS8409.

Stores containing 100L or more of Donaghys Cronus require secondary containment and are subject to signage. Stores containing more than 1,000L require emergency response plans. See the New Zealand Standard for the Management of Agrichemicals NZS 8409 and relevant Hazardous Substances Emergency Management and Identification Regulation for further information.

When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of this product if it is older than this.

RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals must be kept.

SPILLS: Do not touch or walk through spilled materials. Wear the protective equipment recommended above. Stop leak when safe to do so. Dam area and prevent entry into waterways and drains. Absorb with material such as sand, soil or sawdust. Collect spilled product and place in properly labelled, sealable container for disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

PRODUCT DISPOSAL: Dispose of this product only by using according to the label at an approved landfill or via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY 0800 247 326 for information about the type and quality of chemical acceptable for disposal.)

CONTAINER DISPOSAL: Triple rinse empty container and add rinsate to the spray tank. Triple rinsed containers containing the

Agrecovery logo on the label and that are free of all residues (liquid or dry) and have an intact legible label may be taken to an Agrecovery collection site. Otherwise crush or puncture and bury in a suitably approved landfill. Do not burn empty containers. Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

ENVIRONMENT: HARMFUL TO THE AQUATIC ENVIRONMENT. DO NOT contaminate an aquatic environment with chemical or empty container. DO NOT spray over or allow drift over, an aquatic environment. VERY TOXIC TO THE SOIL ENVIRONMENT. Selective herbicide, very toxic to some plant species.

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 clipping used for making compost, or made available for collection for, or deposited at a municipal green waste recycling depot.

SAFETY DATA SHEET: A safety data sheet is available from Donaghys Ltd. Visit www.donaghys.com, or call customer service Free on 0800 942 006

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 splashed in eyes, flush out immediately with running water for at least 15 minutes. Take to the hospital without delay. If spilt on skin or hair remove contaminated clothing and flush skin and hair with running water. Do not scrub the skin.

Registered pursuant to the ACVM Act 1997, No P9127

See www.foodsafety.govt.nz for registration conditions.

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains clopyralid).

HSNO Number: HSR101196 (See www.epa.govt.nz for controls)

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