

KEEP OUT OF REACH OF CHILDREN

ECOTOXIC/HARMFUL

**DONAGHYS**

**Broadleaf Kill**

***2,4-D Amine***

A selective herbicide for control of broadleaf weeds in cereals and pasture

Active Ingredient: Contains 400 g/L 2,4-D as the triethanolamine salt in the form of a soluble concentrate.



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# INSTRUCTIONS – BROADLEAF KILL 2,4-D AMINE

# ECOTOXIC/HARMFUL

## DIRECTIONS FOR USE –READ ENTIRE BOOKLET BEFORE USING

**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.

- Donaghys Broadleaf Kill 2,4-D Amine is a hormone type herbicide which is foliar absorbed and translocated through the plant.
- Use Donaghys Broadleaf Kill 2,4-D Amine to control buttercups (except giant), dandelions, Catsear, seedling docks, seedling ragwort, fathen, hedge mustard, plantains, and Scotch, variegated, winged, and nodding thistles in pasture.
- Best results are obtained when weeds are not under stress and are actively growing with clean foliage.
- Donaghys Broadleaf Kill 2,4-D Amine may be tank mixed with most other commonly used pesticides.

## WARNING

- High rates of Donaghys Broadleaf Kill 2,4-D Amine may cause temporary suppression of clovers, particularly red, subterranean and suckling species.
- After spraying, poisonous plants may become more palatable and stock should be kept off the treated area until the plants have died down.
- Decontaminate equipment before using on 2,4-D Amine sensitive crops. Crops susceptible to Donaghys Broadleaf Kill 2,4-D Amine include, but are not limited to: peas, lucerne, beans and other legumes; flowers, fruit trees, grapes, kiwifruit, ornamentals, shade trees and Pinus spp., potatoes, tomatoes and vegetables.

## TIME OF APPLICATION

- Apply over late autumn to early winter after clover growth has slowed. During mid winter when weeds are growing less actively, variable control can occur.
- Do not apply to weeds under growth stress (frost, drought).
- Do not spray if rain is likely within 6 hours. Do not allow spray contact with non target plants as severe injury may occur.

## PASTURE MANAGEMENT

- Graze the area before spraying to reduce clover leaf and expose the weeds to spray. Leave for one week to allow weeds to freshen prior to spraying.
- Delay grazing the sprayed paddock for 2 weeks as premature grazing of the treated weed may reduce the level of control.

## EQUIPMENT

- Apply using accurately calibrated and maintained equipment in accordance with New Zealand Standard for the Management of Agrichemicals (NZS8409).
- Flush equipment thoroughly with clean water before and after use, preferably with a chemical residue remover. Do not use chlorine based cleaners.
- Remove filters and nozzles and clean separately. Flush the sprayer system with clean water and allow it to drain. Repeat the cleaning procedure twice.

## MIXING

- Half fill clean spray tank with clean water, add required amount of Donaghys Broadleaf Kill 2,4-D Amine, mix well then fill with clean water.
- Agitate thoroughly before spraying.
- When tank mixing with other chemicals, add Donaghys Broadleaf Kill 2,4-D Amine after other water soluble products, but before flowables.

**APPLICATION:** Refer to inside pages.

**USE SITUATIONS:** Refer to inside pages.

## 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 P007647.

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, Approval No. HSR000607.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

## FOR FULL HAZARD AND SAFETY INFORMATION REFER TO BOOKLET

**HAZARD CLASSIFICATION:** Specific target organ toxicity - single exposure Category 3 respiratory tract irritation. Eye irritation Category 2. Specific target organ toxicity - repeated exposure Category 1. Hazardous to the aquatic environment chronic Category 1. Hazardous to soil organisms. Hazardous to terrestrial vertebrates.

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## APPLICATION

**BOOM SPRAYING:** In pasture use 100-200 litres of water per hectare. For difficult to control perennial weeds use 300 litres of water per hectare to obtain more complete coverage.

**CDA SPRAYING:** For pasture weeds use 15-50 litres of water per hectare using spray equipment which will produce a droplet size not less than 150 microns.

**AERIAL SPRAYING:** For pasture weeds use 60-100 litres water per hectare. Use the higher water volumes where maximum penetration into the crop canopy is required.

**SPOT SPRAYING:** For gun application use a pressure of 600-800 kPa through a No. 4 tip and apply as a fine wetting spray.

## USE SITUATIONS

### PASTURE

**Boom and Aerial Spraying:** Use 3 litres per hectare for seedling and young plants, and 6 litres per hectare on more mature weeds, in 200 litres water/ha.

**Spot Spraying:** For gun application use 1 litre Donaghys Broadleaf Kill 2,4-D Amine per 100 litres of water. For knapsack application use 10 ml per litre of water.

### WHEAT AND BARLEY

Spray from the 6 leaf stage to jointing (the appearance of nodes or joints at the base of the stem) with 2-3 litres of Donaghys Broadleaf Kill 2,4-D Amine per hectare. Do not apply to wheat or barley between jointing and flowering.

### OATS

Apply to autumn sown oats only. Oats should be treated the following spring when fully tillered. Use 2.0 litres Donaghys Broadleaf Kill 2,4-D Amine in 200 litres water/ha on autumn sown oats only. Rapidly growing spring sown oats should be sprayed with MCPA.

## CEREAL WEED CONTROL

| Weeds controlled in cereals   | Rate litre/ha | Comments   |
|---|---------------|--|
| Fathen, hedge mustard, wild turnip, nettles and shepherds purse.  | 2             | Seedlings only will be controlled. For large plants use 3 litre/ha.  |
| Black nightshade, dock seedlings, thistles and calandrinia.   | 3             |  |
| Fumitory, spurrey, wireweed, willow weed, yarrow, regrowth docks, cornbind, vetches and stinking mayweed, chamomiles. | 3             | Only checked with Donaghys Broadleaf Kill 2,4-D Amine; use a suitable alternative cereal herbicide for best results. |

## **CAUTION**

### **SPRAY DRIFT:**

Apply this product carefully. Spray drift may cause serious damage to other desirable plants. It is an offence under the Pesticide Regulations to use this product in a manner that results in damage outside the treated property. Avoid spray drift onto desirable plants especially vegetables, flowers, fruit trees, ornamentals, shrubs, pine species, grapes and tomatoes. To minimise the risk of damage from drift of this product, especially where susceptible vegetation is within 0.5 km, use low drift nozzles which minimise the production of small droplets (less than 100 microns). Maintain a water rate of at least 30 litres/ha for aerial spraying. Do not add additional surfactant / wetter unless specified on label. Preferred wind conditions for spraying are a light constant breeze away from any sensitive crop.

# BROADLEAF KILL 2,4-D AMINE

# ECOTOXIC/HARMFUL

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## Approved Handler/Tracking

### DANGER

**Read label before use:** May be harmful if inhaled. Causes serious eye irritation. Slightly toxic by ingestion. Causes damage to organs from repeated oral exposure at high doses. If exposed, call the National Poisons Centre (0800 764 766) or doctor/physician. This product must be under the control of an approved handler during use.

### PERSONAL PROTECTION

When mixing or loading wear overalls and impervious gloves. Wear eye protection. Do not breathe fumes or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke whilst using this product.

### STORAGE

Store locked up in original container, tightly closed and in a dry, cool, well-ventilated area away from foodstuffs and in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact the proprietor for further information about the use of this product if it is older than this. Storage containing more than 100L Donaghys Broadleaf Kill 2,4-D Amine (or substance of the same hazard class) requires secondary containment and are subjected to signage. See the Hazardous Substances Emergency Management Regulations and NZS8409 for further information.

### SPILLS AND DISPOSAL

**Avoid release to the environment:** Exclude all bystanders from the vicinity of the spill and prevent material from entering drains and waterways. When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain and absorb with suitable inert absorbent material and store in properly labeled, sealed drums for safe disposal. Collect spillage. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### PRODUCT DISPOSAL

If possible dispose of by using the product according to the label, otherwise dispose of in an approved landfill or bury below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

### CONTAINER DISPOSAL

Triple rinse container and add residue to spray tank. If circumstances, especially wind direction permit, the empty containers may be burned, otherwise crush and bury in a suitable land fill.

### ENVIRONMENT

**Very toxic to aquatic life with long lasting effects.** Avoid contamination of any water supply with product or empty container. Toxic to plants: Handle and apply with care, spray drift may cause severe damage to other desirable plants. Very toxic to the soil environment and toxic to terrestrial vertebrates.

### APPROVED HANDLER

This product must be under the control of an Approved Handler.

### SAFETY DATA SHEET

A safety data sheet is available from Donaghys Ltd.  
Call customer service Toll Free on 0800 942 006.

### FIRST AID

If medical advice is needed, have product container or label at hand.

**IF SWALLOWED:** Do NOT induce vomiting. Rinse mouth and then drink plenty of water. Call a POISON CENTRE or doctor/physician if you feel unwell.

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before use.

**IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician.

**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.

**National Poisons Centre 24 hour phone:  
0800 POISON (0800 764 766)**

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