



**TOXIC • ECOTOXIC**  
**KEEP OUT OF REACH OF CHILDREN**

**Nufarm**  
**BARRACK®**  
**BETTERSTICK**

**FREE RECYCLING**



**AGRECOVERY**

[www.agrecovery.co.nz](http://www.agrecovery.co.nz)



04-17/PS/A0255-10LNZ1.2

Active Ingredient: 720g/litre chlorothalonil  
in the form of a suspension concentrate.

**A broad-spectrum protectant fungicide for the  
control of a wide range of diseases of fruit,  
vegetables and turf.**

**Net: 10 Litres**



**Grow a better tomorrow.**

**HAZARD CLASSIFICATION**

6.1B, 6.3B, 6.4A, 6.5B, 6.7B, 6.9A, 9.1A, 9.2B, 9.3B

**APPROVED HANDLER**

This product must be under the control of an approved handler, or secured.

**TRACKING**

Location and movement of this product must be recorded at each stage of its lifecycle.

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

**TOXICITY**

- Toxic – May be fatal if swallowed, inhaled or absorbed through the skin. May cause eye irritation. May cause mild skin irritation or an allergic skin reaction. Limited evidence of a carcinogenic effect in animal studies. May cause kidney damage from repeated oral exposure at high doses.

**ECOTOXIC**

- Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
- Toxic to the soil environment.
- Toxic to terrestrial invertebrates.

**HANDLING PRECAUTIONS****STORAGE**

- Store in original container tightly closed, in a locked, dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.
- Stores containing 100 litres are subject to signage and secondary containment and more than 100 litres require emergency response plans.

**PERSONAL PROTECTION**

- Avoid skin and eye contact and inhalation of spray mist.
- When handling wear full protective clothing such as eye protection, impervious gloves, respirator, waterproof hat, coat and trousers (worn outside rubber boots).
- Do not eat, drink or smoke when using.
- Remove protective clothing and wash hands and face thoroughly before meals and after work.
- Wash protective clothing daily after work.

**EQUIPMENT**

- Apply using well maintained and accurately calibrated equipment. Clean equipment thoroughly after use.

**DISPOSAL**

- Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an approved landfill.

**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 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 victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

**SPILLAGE:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

**TRANSPORT:** Do not carry Barrack Betterstick on a passenger service vehicle.

**RECORD KEEPING:** Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

**MIXING:** Thoroughly shake or roll the pack several times before opening. Half fill the spray tank with water and with the agitation system running, add the required amount of Barrack Betterstick.

**WETTING AGENTS:** Do not use surfactants with Barrack Betterstick unless they are specifically recommended on this label.

**COMPATIBILITY:** Barrack Betterstick is compatible with most commonly used wettable powder insecticides and fungicides. Do not use with Bordeaux mixture or lime sulphur. Do not tank mix with oils or emulsifiable concentrates unless experience has shown the mixture to be physically compatible and non-injurious to the crop. When using Streptomycin, add Barrack Betterstick to the half filled spray tank, top up, and then add Streptomycin.

**By law the following restrictions must be complied with:** As Barrack Betterstick contains minute quantities of HCB, a compound that can be taken up by grazing stock to give unacceptable residues in meat and milk, the following restrictions on the use of this product must be observed. DO NOT graze treated crops. DO NOT feed any part of a treated crop to stock. CULTIVATE treated areas thoroughly (i.e. not direct drilling or other minimum tillage techniques) before sowing pasture or any animal feed crop.

**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.**

**It is an offence to use this product on animals.**

Batch No.:

D.O.M.:

PROPER SHIPPING NAME	CLASS	UN No.	HAZCHEM	PACKING GROUP
PESTICIDE, LIQUID, TOXIC, N.O.S. (chlorothalonil 72%)	6.1	2902	2X	III

**DIRECTIONS FOR USE:** For effective disease control a good leaf cover of Barrack Betterstick must be achieved before widespread disease outbreak occurs. To ensure adequate coverage the volume of water applied should be increased as plants grow. The rates suggested are for high volume spraying to run-off. For concentrate spraying adjust dilution rates accordingly.

<b>VEGETABLE CROPS</b>		
<b>CROP</b>	<b>DISEASE</b>	<b>RATE</b>
Beans (Broad, Pole, Butter, Green)	Rust	210-240ml/100 litres water or 2.1 litres per hectare
Vegetable brassicas (Cabbage, Cauliflower, Broccoli, Brussels Sprouts)	Downy mildew Ring spot	175-210ml/100 litres water or 1.4 litres per hectare on mature crops
Celery	Septoria leaf spot	210-240ml/100 litres water or 2.1 litres per hectare on mature crops
Cucurbits (Cucumber, Melons, Squash)	Downy mildew Powdery mildew	175-210ml/100 litres water or 1.4 litres per hectare on mature crops
Potatoes	Early blight Late blight	135ml/100 litres water or 1 litre per hectare
Outdoor Tomatoes	Early blight Late blight Botrytis*	210-240ml/100 litres water or 2.1 litres per hectare
Lettuce	Ring spot	210ml/100 litres water or 2.1 litres per hectare

<b>ORNAMENTALS</b>		
<b>CROP</b>	<b>DISEASE</b>	<b>RATE</b>
Ornamentals (Camellias, Chrysanthemum, Geranium, Statice, Roses)	Blackspot, Botrytis*, Downy mildew, Powdery mildew, Flower blight	175-210ml/100 litres water

<b>NOTES</b>
Apply at emergence and then at 10-21 day intervals, or at first appearance of disease.
Treat at transplanting or seedling emergence and repeat every 7-21 days. Use the high rate for ring spot control.
Apply every 7-14 days from planting.
Apply every 10-14 days from seedling emergence.
Apply every 7-14 days, depending on disease conditions.
Treat every 10-14 days from planting until harvest.
Apply at emergence or transplanting, then every 7-10 days.

<b>NOTES</b>
Apply at 10-21 day intervals. Do not spray when flower buds are showing petal colour as flower damage may occur.

FRUIT CROPS		
CROP	DISEASE	RATE
Pipfruit (Non-bearing)	Blackspot	210-240ml/100 litres water (minimum 2.1 litres per hectare)
Stonefruit	Leaf curl	160-210ml/100 litres water (minimum 2.1 litres per hectare)
	Brown rot (Blossom Blight)	160-210ml/100 litres water (minimum 2.1 litres per hectare)
	Rust	
Grapes	Botrytis* Black spot Powdery mildew Downy mildew	210-240ml/100 litres water (minimum 2.1 litres per hectare)
Strawberries	Botrytis* Alternaria Mycosphaerella (Frog's Eye leaf spot)	210-240ml/100 litres water (minimum 2.1 litres per hectare on mature plants).
Canefruit (Blackberries, Loganberries, Boysenberries)	Botrytis* Dryberry	210ml/100 litres water (minimum 2.1 litres per hectare)
Blackcurrants	Leaf spot	210ml/100 litres water (minimum 2.1 litres per hectare)

\*Botrytis: Barrack Betterstick will prevent botrytis when applied as a full season spray programme. Under conditions of high infection pressure (e.g. wet humid weather) use a specific botrytis fungicide.

NOTES
Apply at 14-21 day intervals. Do not use on bearing trees as fruit russet may occur.
Apply before bud swell. When disease pressure is high apply every 7-14 days from pink until shuckfall. Apply every 7-14 days from pink until shuckfall.
Beginning at bud burst apply every 7-14 days throughout the season. Use the shorter interval when disease pressure is high. Use on wine grapes, especially white varieties, after the start of flowering, may result in fruit russet. Do not use on table grapes as fruit russet may occur.
Apply every 7-14 days throughout the season. Use the shorter interval when disease pressure is high.
Apply every 10-14 days from budburst until harvest. Use the shorter interval when disease pressure is high. To control dryberry in primocanes, post harvest autumn treatment is required.
Apply every 10-14 days from budburst. Use the shorter interval when disease pressure is high.

<b>TURF and COTULA</b>	
<b>DISEASE</b>	<b>RATE ml/100 square metres</b>
Dollar Spot	70 – 140
Leaf spot / Melting out	70 – 140
Brown patch	70 – 140
Red thread	100 – 200
Anthracnose	100 – 200
Fusarium patch	100 – 200

**WITHHOLDING PERIODS:** Strawberries, cucurbits – 1 day; Grapes – 28 days; Stonefruit – do not apply after shuckfall; Lettuce – 10 days; Other crops – 7 days.

Registered pursuant to the ACVM Act 1997, No. P7690.

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

Approved pursuant to the HSNO Act 1996, Approval Code HSR000670.

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

©Barrack is a registered trademark of Crop Care Australasia Pty Ltd.

**CONDITIONS OF SALE:**

**CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER**

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.

When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

**NOTES**

Apply as necessary and repeat at 10-14 day intervals when conditions favour disease. Use the low rate preventatively and the high rate as a curative. Use sufficient water to thoroughly wet the foliage (7.5 – 10 litres / 100 square metres). Tank mix with a suitable wetting agent to improve thatch penetration.

DO NOT USE ON AREAS TO BE GRAZED.

Marketed by:

Nufarm Limited

6 Manu Street, Otahuhu, Auckland, N.Z.

Telephone 0-9-270 4157

[www.nufarm.co.nz](http://www.nufarm.co.nz)

Nufarm emergency phonenumber: 0800-651 911 toll free 24 hours

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