

**ECOTOXIC**  
**KEEP OUT OF REACH OF CHILDREN**

**MANCOWALL**

**FUNGICIDE**

Contains 750 g/kg mancozeb in the form of a water dispersible granule (WG)

A protectant fungicide for the control of fungal diseases in a wide range of crops



Registered pursuant to the ACVM Act 1997 No: P009359  
See [www.foodsafety.govt.nz/acvm/](http://www.foodsafety.govt.nz/acvm/) for registration conditions.  
Approved pursuant to HSNO Act 1996 No HSR002701  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions

Date of manufacture:  
Batch no:  
Net contents: 10kg

**Distributed by:**  
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**HSNO CLASS**

6.4A, 6.5B, 6.9B, 6.9B, 9.1A

**TOXICITY**

- **HARMFUL:** May cause eye irritation  
May cause sensitisation from prolonged skin contact  
May cause organ damage from repeated oral exposure at high doses.

**ECOTOXICITY**

- **VERY TOXIC:** Very toxic to aquatic organisms with long lasting effects. Not to be applied directly onto or into water. **Avoid contamination of any water supply with product or empty container.**

**APPROVED HANDLER**

- This product must be under the control of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.
- This product must not be used for any purpose or in any manner contrary to this label unless authorised under appropriate legislation

**PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN**
- Avoid contact with skin, eyes and inhalation of spray mist.
- When handling, wear eye protection, waterproof gloves, boots and overalls.
- Remove protective clothing and wash hands and face thoroughly before meals and after work.
- Do not eat, drink or smoke while using.

**STORAGE**

- Store in the original container in a cool well-ventilated area away from foodstuffs. Avoid storage at temperatures below 5°C and above 35°C
- Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.

**DISPOSAL**

- Dispose of product only by using according to the label or at an approved landfill.
- Triple rinse empty container and add rinsate to the spray tank.
- Recycle empty container. Otherwise crush and bury empty container in suitable landfill. Do NOT use the container for any other purpose.
- Avoid contamination of any water supply with chemical or empty container.

**SPILLAGE**

- Wear appropriate protective clothing and prevent material from entering waterways.
- Sweep up spilled material, collect and store in properly labelled, sealed drums for safe disposal. Avoid creating dust.
- If spray mixture is spilled, contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material and collect in drums as above then transfer the recovered spilt material to a properly labelled container.
- Dispose of waste safely in an approved landfill. If contamination of drains, streams, watercourses etc is unavoidable, warn the local water authority.

**RECORD KEEPING**

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

**FIRST AID**

If swallowed do NOT induce vomiting. If splashed in eyes, hold eyelids apart and flush the eye continuously for at least 15 minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, move the victim to fresh air immediately, give artificial respiration, preferably mouth to mouth. **For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor immediately.**

**GENERAL INSTRUCTIONS**

MANCOWALL is a fungicide with protective properties for the control of fungal diseases in a wide range of fruit, vegetable crops and ornamentals.

**APPLICATION METHODS**

MANCOWALL is non-corrosive and almost non-abrasive. MANCOWALL can be applied with conventional spraying equipment. Do not use strainers finer than 300 micrometres. Use a finer droplet size for more uniform coverage. Ensure the undersides of leaves are treated. Wash equipment thoroughly after use.

Application rates are given for high volume dilute spraying. **For low volume concentrate sprays, adjust the spray tank concentration to apply the same quantity of MANCOWALL per hectare as for dilute sprays.**

**MIXING**

MANCOWALL is not water soluble, it is dispersible and must have direct contact with water to disperse. MANCOWALL mixes readily with water. Add the required amount of MANCOWALL into a partly filled spray tank then add the remaining water while agitating. The spray mixture should be kept agitated before and during spraying and before spraying after a stoppage.

**COMPATIBILITY**

MANCOWALL is compatible with most commonly used fungicides and insecticides. Do NOT use with lime Sulphur or Bordeaux mixture. For hard to wet vegetables such as onions the addition of a non-ionic wetting agent at label rates will improve coverage.

**RESISTANCE MANAGEMENT**

<b>GROUP</b>	<b>M3</b>	<b>FUNGICIDE</b>
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MANCOWALL is a group M3 (Multi-site) fungicide from the dithiocarbamate group of fungicides. Resistance to this fungicide and related products could develop in some disease situations from repeated use. To minimize this risk use strictly in accordance with label instructions. For further information see [www.resistance.nzpps.org](http://www.resistance.nzpps.org).

**DIRECTIONS FOR USE**

**This product must not be applied at rates exceeding 3.2 kg mancozeb /hectare (4.27 kg MANCOWALL) and must not be applied to the same area more than six times per year.**

The following rates are for dilute spraying to the point of run-off. For low volume concentrate spraying, adjust the dilution rate accordingly.

A) FRUIT CROPS			
CROP	DISEASE	DOSAGE RATE	CRITICAL COMMENTS
Apples Pears	Blackspot <i>Glomerella</i> Ripe spot Sooty blotch	110-160g/100 litres	Apply at Green tip and repeat at 10-14 day intervals. Use the highest rate and shortest spray interval early in the season or where severe disease exists. Maintain the high rate for <i>Glomerella</i> . <b>Note:</b> Early season use under frosty conditions may cause russet.

CROP	DISEASE	DOSAGE RATE	CRITICAL COMMENTS
Booyesen berries Loganberries Raspberries	Downy Mildew (Dryberry) Leaf spot Rust	210g/ 100 litres	Apply at green tip and repeat at 10-14 day intervals.
Citrus	Brown rot	210g/ 100 litres	Apply in May. Where severe disease exists, apply at 4-6 week intervals from April to late winter.
	<i>Alternaria</i>		Apply from October to April at 14-28 day intervals.
	<i>Verrucosis</i>		Apply at petal fall.
	Citrus rust mite		Apply at first signs of mite activity (Dec/Jan). Apply at 21-28 day intervals.
Red currants Black currants Gooseberries	Leaf spot	210g/ 100 litres	Apply at green tip and repeat at 10-14 day intervals.
Grapes	Anthrachnose (Black spot) Downy Mildew	210g/ 100 litres	Apply at bud burst and repeat at 10-14 day intervals.
Nectarines Peaches	Rust	210g/ 100 litres	Apply in early November. Repeat application if disease is severe. <b>Note:</b> To avoid spray deposits, DO NOT spray within 6 weeks of harvest. DO NOT allow drift onto plums as foliage damage and defoliation may occur.
Strawberries	Mycosphaerella leaf spot (Frogs eye)	210g/ 100 litres or 2kg / hectare	Apply from mid-June. Apply at 10-14 day intervals. In wet weather repeat at 7 day intervals.
<b>B) ORNAMENTALS</b>			
Ornamentals	Blights, Spots and Rust	210g/ 100 litres	Apply at 7-14 day intervals throughout the growing season.
<b>C) VEGETABLES</b>			
Beans	<i>Anthrachnose</i> Rust	160-210g/ 100 litres	Apply at the first signs of disease and repeat at 7-10 day intervals.
Broccoli Brussel sprouts Cabbage Cauliflower	Downy mildew	160-210g/ 100 litres	Apply at 7-10 day intervals. In wet weather apply to seedbed at 3-4 day intervals.
Carrots	<i>Cercospera</i> leaf Spot	160-210g/ 100 litres	Apply at the first signs of disease and repeat at 7-10 day intervals.
Celery	<i>Septoria</i> leaf spot	160-210g/ 100 litres	Seedbed: Apply at 3-5 day intervals. Field: Apply at 7-10 day intervals.
Cucurbits Cucumber Melons Pumpkin Squash	<i>Anthrachnose</i> <i>Alternaria</i> <i>Cercospera</i> leaf spot Downy mildew	160-210g/ 100 Litres	Apply as plants begin to run or at first signs of disease. Repeat at 5-7 day intervals.

CROP	DISEASE	DOSAGE RATE	CRITICAL COMMENTS
Lettuce	Downy mildew Leaf spot Ring spot	160-210g/ 100 litres	Apply at the first signs of disease and repeat at 7-10 day intervals.
Maize Sweetcorn	Northern leaf Blight	2.1 kg/hectare	Apply as an aerial treatment at the first signs of disease. Apply in sufficient water to give maximum coverage.
Onions	<i>Botrytis</i> Downy mildew	160-210g/ 100 litres	Apply at 7-10 day intervals.
Potatoes	Early blight (Target spot) Late blight	1.6-2.1 kg / Hectare	Apply lower rate as crop emerges and the higher rate as vines size. Repeat at 7-10 day intervals. In wet weather repeat at 3-4 day intervals.
Tomatoes	Anthrachnose Early blight Late blight <i>Septoria</i> leaf spot	160-210g/ 100 litres	Apply at 7-10 day intervals. Use highest rate and shortest interval where severe disease conditions occur. DO NOT use on young tomato seedlings in glass houses or tunnel houses as injury may occur.

**WITHHOLDING PERIODS:** 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.

CROP	WITHHOLDING PERIOD
Cucurbits, tomatoes	1 Day
Apples, beans, boysenberries, broccoli, brussel sprouts, cabbage, carrots, cauliflower, celery, citrus, currants (red and black), gooseberries, grapes, lettuce, loganberries, maize, nectarines, onions, peaches, pears, potatoes, raspberries, strawberries and sweetcorn	14 days
Export crops	Check with your exporter or industry crop adviser.

### GRAZING RESTRICTIONS

The following restrictions on the use of this product **must** be observed. Do **not** feed treated crops or pasture to stock other than sheep used for leaf plucking in vineyards. Take care not to allow this product to drift onto pasture or crops that may be grazed. Do not graze stock in orchards which have been treated with MANCOWALL.

### VINEYARDS

Do **not** graze stock other than sheep in vineyards which have been treated with MANCOWALL. For the purpose of leaf plucking, sheep may graze vineyards providing they are not slaughtered for 2 months after leaving the vineyard.

Registered to: Global Agrichem Limited, Suite 4, Level 1, 38 Whitaker Place, Grafton, Auckland 1010.  
Phone 022 1915641

### CONDITIONS OF SALE

The use of MANCOWALL being beyond the control of the suppliers, no Warranty expressed or implied, beyond that covered under the Fair trading Act, is given by the manufacturer regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not, and the manufacturer accepts no responsibility whatsoever resulting from the use of this product.