

**CAUTION**

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**BARMAC**

**ZINEB**

Fungicide

ACTIVE CONSTITUENT: 800g/kg ZINEB

GROUP **Y** FUNGICIDE

For the control of certain diseases of Turf, Fruit Trees, Vegetables and Ornamentals.as per the  
Directions for Use

NET CONTENTS 25 Kg



**BARMAC INDUSTRIES PTY LTD**

**31 Brecknock Street, Archerfield Qld. 4108**

**Phone 07 3255 6000**

Batch Number .....

Date of Manufacture.....

Expiry Date: 2 years after date of Manufacture

NRA APPROVAL NUMBER 30628/....

## DIRECTIONS FOR USE

### Non Tree and Non Vine Crops

Situation	Pest	State	Rate	WHP	Critical Comments
TURF Bowling Greens	Helminthosporium (damping off)	NSW, VIC, SA, TAS, QLD	1.5Kg/800litres water/full size green	N/A	Apply as preventative every 14-21days when disease threatens, or apply when disease first appears and repeat in 10 days.
Lawns, Golf Greens, Tennis Courts	Helminthosporium (damping off)	NSW, VIC, SA, TAS, QLD	100g/50 litres water/100m <sup>2</sup>		
Beans	Rust, Anthracnose	NSW, VIC, SA, WA,TAS only QLD only	150g/100 litres water 175g/100 litres water	7 Days	Apply when disease threatens and repeat every ten days as required.
Bananas	Cercospora Leaf Spot, Speckle	QLD, NSW, WA only	2Kg + 4 litres summer oil/100 litres water/ha		Apply at two week intervals or as required from December to May. Water misting.
Beets	Cercospora Leaf Spot	All States	150g/100 litres water		Apply when disease threatens. Repeat if necessary.
Carrots	Cercospora Leaf Spot ,Alternaria Leaf Spot	NSW, VIC, SA WA, TAS only QLD only	150g/100 litres water 175g/100 litres of water		Apply when disease threatens and repeat at 7 day intervals or as required. Add 100ml of Barmac Maxwet per 100 litres of water to improve coverage.
Cauliflower & Cabbages	Downy Mildew Cercospora Leaf Spot	NSW, VIC, SA, WA, TAS only QLD only	150g/100 litres water 175g/100 litres water		Apply when disease threatens, repeat at seven day intervals or as required. Add 100ml of Barmac Maxwet per 100 litres of water to improve coverage.
Celery	Cercospora Leaf Spot (Early Blight)  Septoria (leaf spot)	NSW, VIC, SA, WA, TAS only QLD only	150g/100 litres water 175g/100 litres water		Apply when plant first comes through ground in seedbed Repeat after 7-10 days or as required. Add 100ml of Barmac Maxwet per 100 litres of water to improve coverage.
Cucurbits	Downy Mildew Anthracnose	NSW, VIC, SA, WA, TAS only QLD only	150g/100 litres water 175g/100 litres water	7 Days	Apply when weather favours disease and repeat at 7 day intervals or as required.
Egg Plant	Early Blight, Late Blight	All States	150g/ 100 litres water		Apply when weather favours disease and repeat at 7 day intervals or as required.
Onions	Downy Mildew, Purple Blotch, Blue Mould	NSW, VIC, SA, WA, TAS only QLD only	150g/100 litres water 175g/100 litres water		Apply when disease threatens and repeat at 7-10 day intervals or as required. Add 100ml of Barmac Maxwet per 100 litres of water to improve coverage.

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Peas, Crucifers	Downy Mildew	All States	125g/100 litres water	7 Days	Apply every 7-14 days or as required
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Snow Peas, Sugar Snap Peas				3 Days	Apply a maximum of 5 applications when disease threatens at 7-14 day intervals.
Peppers	Early Blight, Late Blight	All states	150g/100 litres water	7 Days	Apply when disease threatens and at 7-10 day intervals.
Potatoes	Early Blight (Target Spot) Late Blight	All States	1.7 kg per Hectare	N/A	Apply in at least 650 L water/ha increasing the volume with heavy growth to ensure complete coverage. Commence sprays at flowering or when disease is first expected and continue at two week intervals. For aerial or low volume spraying, apply in 10-20 L spraying oil or 50-100 litres water/ha.
Roses, Zinnias, Carnations, Chrysanthemum	Rust, Leaf spot, Downy mildew	NSW, VIC, SA, TAS, WA only	150g/100 litres water	N/A	Apply when disease threatens and at 7-10 day intervals or as required
Snapdragons, Gladioli	Anthracoese Curvalaria	QLD only	175g/100 litres water		
Strawberries	Leaf Blight	QLD, WA only	175g/100 litres water	7 Days	Apply when disease threatens and as required
	Scorch	TAS only	150g/100 litres water		
Tobacco	Blue mould	NSW, VIC only	170g/100 litres water	N/A	Apply at weekly intervals during weather conditions which favour disease.
		QLD only	230g/100 litres water		
Tomatoes	Early Blight (Target spot), Late Blight, Anthracoese & Septoria	NSW, VIC, SA only	150g/100 litres water	14 Days	Apply every 14 days when weather favours disease. A thorough coverage of leaves is essential.
		QLD only	175g/100 litres water		

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**Tree and vine crops**

<b>RATE</b>			<b>CRITICAL COMMENTS</b>		
In the following table, all rates are given for dilute spraying. For concentrate spraying refer to the Mixing/Application section.			For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.		
<b>CROP</b>	<b>DISEASE</b>	<b>STATE</b>	<b>RATE</b>	<b>WHP</b>	<b>CRITICAL COMMENTS</b>
Citrus	Black Spot Speckled Blotch	NSW, SA TAS only	150g/100 litres water	7 Days	Add 25ml of white oil per 10 litres of water. Spray 6-12 weeks after Bordeaux spray at petal fall. When mixing dilute white oil with water before adding Zineb. Apply as an overall spray at the first signs of activity on fruit.
	Scab	QLD only	175g/100 litres water		
	Brown Citrus Rust Mite Citrus Rust Mite Citrus Bud Mite	QLD only	160g/100 litres water.		
	Brown Citrus Rust Mite Citrus rust mite	NSW only	100g/100 litres of water		
Grape vines	Downy Mildew	NSW, VIC, SA, WA, TAS only	150g/100 litres of water		Apply at 10 day intervals during moist humid weather or as required.
		QLD only	175g/100 litres water		
Pome Fruit	Bitter Rot, Sooty Blotch, Black Spot of pears	All States	150g/100 litres water	14 Days	Apply following green tip spray at pink bud, calyx stage and cover sprays. Mid summer sprays are important for best bitter rot control.
	Black spot of apples	NSW, TAS, SA, QLD, VIC only			
Peaches, Prunes, Plums (not early varieties), Nectarines	Rust	All states	150g/100 litres water	14 Days	Add 50ml of White Oil per 10 litres of water. Apply monthly between December and March.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

**WITHHOLDING PERIOD:** Snow Peas, Sugar Snap Peas – Do not harvest for 3 days after application.

Beans, Bananas, Beets, Carrots, Cauliflowers, Cabbages, Celery, Citrus, Cucurbits, Eggplants, Grape Vines, Onions, Peas and Crucifers, Peppers and Strawberries - Do not harvest for 7 days after application.

Pome Fruit, Stone Fruit and Tomatoes - Do not harvest for 14 days after application.

Potatoes, Tobacco – Not required when used as directed.

(Main Label)

## GENERAL INSTRUCTIONS

### Mixing/Application

**DILUTE SPRAYING:** (Tree and Vine Crops) Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of runoff. Avoid excessive runoff. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of runoff. The required dilute spray volume will change and the sprayer setup and operation may also need to be changed as the crop grows.

**CONCENTRATE SPRAYING** (Tree and Vine Crops): Use a sprayer designed and set up for concentrate spraying (i.e. A sprayer which applies water volumes less than those required to reach the point of runoff) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop using your chosen water volume. Determine an appropriate dilute spray volume (See dilute spraying above) for the crop canopy. This is needed to calculate the mixing rate. The mixing rate for concentrate spraying can be calculated in the following way:

**EXAMPLE ONLY:**

Dilute spray volume as determined above. E.g. 1500 L/ha

Your chosen spray volume. E.g. 500 L/ha

The concentration factor in this example is 3X (i.e.  $1500\text{L}/500\text{L} = 3$ )

If the dilute rate is 150g/100L, then the concentrate rate becomes  $3 \times 150\text{g}$ , that is 450 g/100L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water and the sprayer setup and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry best practices.

### FUNGICIDE RESISTANCE WARNING:

GROUP <b>Y</b> FUNGICIDE
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For fungicide resistance management Barmac Zineb Fungicide is a Group Y fungicide. Some naturally occurring individual fungi resistant to Barmac Zineb Fungicide and other Group Y fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Barmac Zineb Fungicide and other Group Y fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Barmac Industries Pty Ltd accepts no liability for any losses that may result from the failure of Barmac Zineb Fungicide to control resistant fungi.

**PROTECTION OF LIVESTOCK:** DO NOT graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock.

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**PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:**

Toxic to fish. Do not contaminate streams, rivers or waterways with the chemical or used containers.

**PROTECTION OF CROPS, NATIVE AND NON TARGET PLANTS:** Do not apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

**STORAGE AND DISPOSAL** Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.

For Rigid Containers:(Plastic Drums & Pails)

Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling replace cap and return clean container to designated collection point. If not recycling break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

For Non Rigid Containers (Paper or Cardboard Bags or Boxes)

Puncture, shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

For Plastic Bags

Single rinse bags before disposal. Add rinsings to spray tank. Puncture, shred and bury empty bags in a local authority landfill. If no landfill is available, bury the bags below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and product should not be burnt.

**SAFETY DIRECTIONS:** May irritate eyes, nose, throat and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. Wash hands after use.

**FIRST AID:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126

**MATERIAL SAFETY DATA SHEET:** Additional information is listed on the Material Safety Data Sheet available from Barmac Industries Pty. Ltd or at our internet site [www.barmac.com.au](http://www.barmac.com.au)

**NOTICE**

This product is designed only for the particular purposes indicated on the label. Failure to use the product strictly as directed may be illegal, prove dangerous and render the product ineffective. The buyer or user is responsible for any misuse or negligence in the handling, storage, use of or disposal of this material. Barmac Industries Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply and use of this product other than those responsibilities mandatorily imposed by Statutes applicable to the sale and supply of these goods

(Main Label)