

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

BARMAC
MANCOZEB DG
FUNGICIDE



ACTIVE CONSTITUENT: 750g/kg MANCOZEB

GROUP Y FUNGICIDE

FOR CONTROL OF VARIOUS FUNGAL DISEASES IN CERTAIN VEGETABLES, FRUIT & FIELD CROPS AND ORNAMENTALS AS PER DIRECTIONS FOR USE.

The inner bag must not be sold separately. Do Not destroy outer container while product still remains.

IMPORTANT: Read the Attached Booklet before use.

NET WEIGHT 10, 20, 25 Kg



BARMAC INDUSTRIES PTY LTD

14 Annie Street, ROCKLEA. QLD 4106

Batch Number

Expiry Date

NRA Number : 41117/0701

DIRECTIONS FOR USE

CROP	DISEASE	STATE	RATE PER 100L	RATE PER HA	WITH-HOLDING PERIOD	CRITICAL COMMENTS
TURF	Fusarium, Rhizoctonia Helminthosporium	All States	200 to 250g/100m ²		-	Spray in sufficient water for adequate coverage. Apply every 7 days throughout susceptible periods.
ORNAMENTALS Carnations	Rust Alternaria leaf spot	TAS only	150 to 200g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-14 day intervals.
Flowers, Shrubs, Ferns	Septoria leaf spot Botrysis leaf spot	NSW only	150 to 200g/100L spray Ferns only 75 to 100g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-14 day intervals.
Gladioli, Chrysanthemums	Grey mould (Botrysis) Septoria leaf spot	All States	150 to 200g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-10 day intervals.
	Rust	TAS only			-	
Roses	Black Spot	All States	150 to 200g/100L spray		-	

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

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for use, Precautionary Statements, Safety Directions and First Aid. This product is a protectant fungicide for the control of certain fungus diseases in many crops. For best results, apply product thoroughly to the treated crop in a regular spray programme.

APPLICATION:

This product may be applied as a ground application through spray booms or using hand held sprayers. Adjust the rate to ensure that the correct amount is applied per 100m² from the particular equipment used. Use the higher rate when weather conditions favour the development of disease.

SPRAY TIMING:

Apply treatments when weather conditions favour disease outbreak and continue until the threat of disease has passed. Repeated applications are necessary to protect new plant growth and as conditions favour disease development reduce the spray interval.

MIXING:

Partly fill spray tank with water and agitate while adding this product steadily. Continue agitation after filling and during spraying to ensure spray mixture is uniform and to prevent product settling out. For low volume or aerial application prepare a slurry or premix when adding to the spray tank. Additional insecticides, fungicides, surfactants, etc. should be added after the product is in suspension. Rinse out spray tank, pumps and nozzles at the end of the day.

COMPATIBILITY:

This product may be harmful to *Typhlodramus pyn* and should not be used in orchards where integrated control methods are practised. Most commonly used agricultural fungicides and insecticides are compatible with Mancozeb, however, reference should be made to the other manufacturers recommendations before preparing tank mixes.

FUNGICIDE RESISTANCE WARNING:

GROUP Y FUNGICIDE

For fungicide resistance management Barmac Mancozeb DG Fungicide is a Group Y Fungicide. Some naturally occurring individual fungi dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Barmac Mancozeb DG 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 Mancozeb DG Fungicide to control resistant fungi.

PROTECTION OF LIVESTOCK:

Do not feed grass clippings from treated areas to poultry or other animals. Do not graze livestock on peanut or soybean crops treated with product. Do not use treated seed potatoes for food or feed purposes.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:

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

STORAGE AND DISPOSAL:

Single rinse plastic bag (where applicable) before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bag in a local authority landfill. If no landfill is available, bury the bag below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty container and product should not be burned.

Triple rinse drums and pails before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals in site. If recycling, replace cap and return containers to recycler or designated collection point. If not recycling, crush or puncture and bury empty container in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty container and product should not be burned.

SAFETY DIRECTIONS:

May irritate the 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 13 11 26. Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET: Additional information is listed on the Material Safety Data Sheet available from Barmac Industries Pty Ltd or from our internet site 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 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.

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The inner bag must not be sold seperately. Do Not destroy outer container while product still remains.

IMPORTANT: Read the Attached Booklet before use.

NET WEIGHT 500g, 1, 2, 4, 6, 7, 15 Kg



BARMAC INDUSTRIES PTY LTD

14 Annie Street, ROCKLEA. QLD 4106

Batch Number

Expiry Date

NRA Number : 41117/0400

DIRECTIONS FOR USE

CROP	DISEASE	STATE	RATE PER 100L	RATE PER HA	WITH-HOLDING PERIOD	CRITICAL COMMENTS
TURF	Fusarium, Rhizoctonia Helminthosporium	All States	200 to 250g/100m ²		-	Spray in sufficient water for adequate coverage. Apply every 7 days throughout susceptible periods.
FIELD CROPS Peanuts	Cercospora leaf spot Rust	QLD, NSW & WA only		1.7 to 2.2 Kg	14 days	Apply at 10-14 day intervals commencing when disease symptoms first appear. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
Soybeans	Rust	All States		2.2 Kg	7 days	Commence spraying at first sign of disease and then at 7-10 day intervals while warm, rainy conditions prevail
Tobacco	Blue Mould Brown Spot	QLD, NSW & VIC only	200 g	2.2 Kg	-	Spray at 7 day intervals following a spray at transplanting. Spray to wet seedlings without runoff. Start spraying when plants 1.5cm across and then twice weekly. Field Treatments: Apply at 7 day intervals commencing 10 days after transplanting and ceasing 7-10 days before the first harvest.
	Frog eye leaf spot	QLD only			-	
VEGETABLES Beans	Rust Anthracnose	All States	150 to 200 g	1.7 to 2.2 kg	7 days	Spray at first sign of disease. Repeat at 7-10 day intervals. For improved coverage and spray retention add Spraymate Bond Adjuvant at 100-140mL per 100L of spray.
Broadbeans (including faba beans)	Angular Leaf Spot	QLD & NSW only				
	Chocolate spot (Botrytis fabae)	NSW, TAS, VIC & SA only.				
	Suppression of leaf blight (Ascochyta fabae)	NSW, TAS & SA only				
	Rust (Uranyces viciae-fabae)	TAS & SA		1.7 to 2.5 Kg		
NSW, VIC		1.7 to 2.2 Kg				
Carrots	Cercospora leaf spot Alternaria leaf spot	All States	150 to 200 g	1.7 to 2.2 Kg	7 days	Spray at first sign of disease, then at 7- 10 day intervals or more frequently depending on blight conditions.
Celery	Septoria leaf spot (leaf blight)	All States	150 to 200 g	1.7 to 2.2 Kg	7 days	Spray at first sign of disease. Repeat at 7-10 day intervals.
COLE CROPS Cabbage, Cauliflower, Brussell Sprouts	Anthracnose, Downy Mildew, Alternaria spot, Ring Spot	All States	150 to 200 g	1.7 to 2.2 Kg	7 days	Spray at first sign of disease. Repeat at 7-10 day intervals.
Broccoli		NSW, WA, SA, TAS & QLD only				

CROP	DISEASE	STATE	RATE PER 100L	RATE PER HA	WITH-HOLDING PERIOD	CRITICAL COMMENTS
CUCURBITS Cucumber, Canteloupe Pumpkins, Melons Zucchini Squash	Downy Mildew Anthracnose Gummy Stem Blight	All States	150 to 200 g	1.7 to 2.2 kg	7 days	Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use higher rate and shorter spray intervals during weather conditions favourable to disease development.
	Pumpkin	Septoria Spot				
Lettuce	Downy Mildew, Anthracnose, Septoria leaf spot	All States	150 to 200 g	1.7 to 2.2 Kg	14 days	
Onions	Downy Mildew	All States	150 to 200 g	2.2 to 3.5 Kg	7 days	
	Purple Blotch	QLD & NSW only				
Potatoes	Early Blight (Target-spot) Late Blight (Irish Blight)	All States	150 to 200 g	1.7 to 2.2 Kg	7 days	
Rhubarb	Downy Mildew	All States	150 to 200 g	1.7 to 2.2 Kg	14 days	
	Rust	NSW & TAS only				
Spinach Silver Beet Beetroot	Downy Mildew Cercospora leaf spot	All States	150 to 200 g	1.7 to 2.2 Kg	14 days	
Tomatoes	Early Blight (target spot), Late Blight (Irish blight), Anthracnose Leaf mould (Fulvia fulva)	All States	150 to 200 g	2 to 3 Kg	14 days	
	Grey Leaf Spot Phoma Rot	NSW & QLD only				
FRUITS POME FRUITS Apples & Pears	Pear Scab	All States	150 to 200 g	3 to 6 Kg	14 days	Spray at 7-14 day intervals following green tip copper spray. Use the higher rate and shorter spray interval during prolonged wet conditions. Product not suitable for integrated mite control programmes (Tas only).
	Apple Scab (Black Spot)	VIC, TAS, SA, QLD & NSW only				
	Target Spot, Bitter rot, Sooty blotch, Fly speck	All States				
	Ripe Fruit spot	QLD only				

CROP	DISEASE	STATE	RATE PER 100L	RATE PER HA	WITH-HOLDING PERIOD	CRITICAL COMMENTS
STONE FRUIT Peaches, Cherries, Apricots, Plums (except Wilson plums)	Rust Shot hole Freckle	All States	150 to 200 g	3 to 6 Kg	14 days	Spray at early bloom(1-10%), mid to full bloom (50-100%) petal fall, and at shuck fall. Then at intervals of 14 days
	Brown Rot	NSW, VIC, TAS & SA only				
Nectarines	Brown Rot	SA & TAS only	150 to 200 g	3 to 6 Kg	14 days	
Almonds		SA only			14 days	
OTHER FRUIT Bananas	Leaf spot (Mycosphaerella musicola)	QLD & NSW only	200 g plus 600 mL polyphase summer oil	2.2 to 4.5 Kg (NSW 2.2 Kg) plus 3.5 to 4.2 L polyphase summer oil or miscible summer oil	14 days	Apply when weather conditions favour disease outbreak. Repeat treatments in accordance with locally recommended spray schedules. Use sufficient water to ensure coverage. NSW:and QLD Apply at three week intervals from Dec-Jan until May. Northern QLD: Apply every two weeks during the wet season Extend to three weeks after this and then
	Leaf speckle	QLD & NSW only	200 g	2.2 Kg		to four to five weeks during the drier months returning to three weeks prior to the next wet season.
	Cordana leaf spot Fruit Speckle Black pit	QLD only	200 g	2.2 Kg		
Citrus	Black Spot	QLD, NSW, TAS, VIC & SA only	200 g	8 to 16 Kg	-	HEAVY SOIL: Spray at 8 and 15 weeks following a Bordeaux (5-5-100) spray at petal fall. LIGHT SOIL: Spray at six and 13 weeks following a Bordeaux spray (3½-3½- 100) plus 100-140ml Spraymate Bond Adjuvant per 100L of spray. In Qld use a Bordeaux Spray mixture of 8-8-100.
	Citrus Rust Mite Brown Citrus Mite	QLD only			-	Spray at first sign of rust or citrus mite (usually December to May).
	Citrus Bud Mite	QLD only			-	Bud mite: Apply when blossom malformation is observed (usually Feb).
Grapevines	Black Spot	All States	200 g	2 to 3 kg	14 days	For black spot control spray commencing at bud burst. Repeat every 10 to 14 days. If downy mildew is expected begin spray application at 10-15cm stage of shoot growth. Continue the programme at intervals of 10-14 days until disease threat over.
	Downy Mildew	QLD, NSW, VIC, SA & TAS only				
	Dead Arm	QLD only	150 to 200 g	2 to 3 Kg		Apply at bud burst and repeat 7-10 days later

CROP	DISEASE	STATE	RATE PER 100L	RATE PER HA	WITH-HOLDING PERIOD	CRITICAL COMMENTS
Mangoes	Anthracoise (Collectotrichum glocosporiodes)	QLD & NSW only	200 g	2 to 3 Kg	14 days	Spray at weekly intervals during flowering then monthly until near harvest. Use sufficient water for good coverage.
Passion Fruit	Septoria spot Brown spot (Alternaria passiflorae)	QLD only	150 g	1.7 Kg	14 days	Apply at 10 to 14 day intervals from October to May and every 21 to 28 days for remainder of year.
	Anthracoise	NSW only	200g to 600ml miscible summer oil	2 to 3 Kg		Spray at weekly intervals during flowering then fortnightly until near harvest.
ORNAMENTALS Carnations	Rust Alternaria leaf spot	TAS only	150 to 200g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-14 day intervals.
Flowers, Shrubs, Ferns	Septoria leaf spot Botrysis leaf spot	NSW only	150 to 200g/100L spray Ferns only 75 to 100g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-14 day intervals.
Gladioli, Chrysanthemums	Grey mould (Botrysis) Septoria leaf spot	All States	150 to 200g/100L spray		-	Apply when disease symptoms first appear and then repeat at 7-10 day intervals.
	Rust	TAS only			-	
Roses	Black Spot	All States	150 to 200g/100L spray		-	

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WITHHOLDING PERIOD: Beans, Celery, Carrots, Onions, Cole Crops, Cucurbits, Soybeans.- DO NOT APPLY later than 7 days before harvest. Tomatoes, Lettuce, Spinach, Silver Beet, Beetroot, Rhubarb, Pome and Stone Fruit, Nectarines, Almonds, Bananas, Passionfruit, Mangoes, Grapevine, Peanuts - DO NOT APPLY later than 14 days before harvest.

DO NOT graze Stock on Peanuts or Soybean Crops treated with this product or feed treated crops and/or trash to Livestock

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for use, Precautionary Statements, Safety Directions and First Aid. This product is a protectant fungicide for the control of certain fungus diseases in many crops. For best results, apply product thoroughly to the treated crop in a regular spray programme.

APPLICATION: High volume Dilute Spray: This product may be applied as a high volume dilute spray to fruit tree crops and some row crops. The spray volume will vary according to the treated crop and should be increased when spraying large or dense plants to ensure thorough coverage. The spray volume should also be increased throughout the growing season as the crop increases in size. Suitable spray volumes for mature crops are as follows: Bananas, Tobacco, Vines and other row crops - 200 to 1100L/ha. Pome and stone fruit - 1100 to 4000L/ha. Citrus 4000 to 8000L/ha.

Concentrate and Ground Application Sprays: This product may be applied as a concentrate spray through low volume air blast equipment or as a ground application through spray booms. Adjust the rate to ensure that the correct amount is applied per hectare from the particular equipment used. Use the higher rate on larger plants and when weather conditions favour the development of disease.

SPRAY TIMING: Apply treatments when weather conditions favour disease outbreak and continue until the threat of disease has passed. Repeated applications are necessary to protect new plant growth and as conditions favour disease development reduce the spray interval.

MIXING: Partly fill spray tank with water and agitate while adding this product steadily. Continue agitation after filling and during spraying to ensure spray mixture is uniform and to prevent product settling out. For low volume or aerial application prepare a slurry or premix when adding to the spray tank. Additional insecticides, fungicides, surfactants, etc. should be added after the product is in suspension. Rinse out spray tank, pumps and nozzles at the end of the day.

ADJUVANTS: The use of Spraymate Bond Adjuvant may improve spray disposition and rainfastness and should be used according to label directions.

COMPATABILITY: This product may be harmful to *Typhlodramus pyn* and should not be used in orchards where integrated control methods are practised. Most commonly used agricultural fungicides and insecticides are compatible with Mancozeb, however, reference should be made to the other manufacturers recommendations before preparing tank mixes.

PROTECTION OF LIVESTOCK: Do not feed grass clippings from treated areas to poultry or other animals. Do not graze livestock on peanut or soybean crops treated with product. Do not use treated seed potatoes for food or feed purposes.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT: Toxic to fish. Do not contaminate streams, rivers or waterways with the chemical or used containers.

(booklet)

FUNGICIDE RESISTANCE WARNING: For fungicide resistance management Barmac Mancozeb DG Fungicide is a Group Y Fungicide. Some naturally occurring individual fungi dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Barmac Mancozeb DG 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 Mancozeb DG Fungicide to control resistant fungi.

STORAGE AND DISPOSAL: Single rinse plastic bag (where applicable) before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bag in a local authority landfill. If no landfill is available, bury the bag below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty container and product should not be burned.

Triple rinse drums and pails before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals in site. If recycling, replace cap and return containers to recycler or

designated collection point. If not recycling, crush or puncture and bury empty container in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty container and product should not be burned.

SAFETY DIRECTIONS: May irritate the 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 13 11 26. Avoid giving alcohol.

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NOTICE: This information is not intended to replace the product label. Failure to use any product in a manner consistent with the label may be illegal, prove dangerous and render the product ineffective. While every endeavour has been made to ensure that this information is accurate and up to date Barmac Industries Pty Ltd will not accept any responsibility for any use of this product based on the information herewith if this use is inconsistent with the label supplied at the time of purchase.