



# Mancozeb® 750 WG

FUNGICIDE

## IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

### ACTIVE CONSTITUENT:

750 g/kg Mancozeb

### PACK SIZES:

10 – 50 kg



GROUP	Y	FUNGICIDE
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For the control of certain fungus diseases of fruit, field crops, tobacco, turf, vegetables and ornamentals as per the Directions for Use Table

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet that can be obtained from [www.fmccrop.com.au](http://www.fmccrop.com.au)

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

## GENERAL INSTRUCTIONS

Mancozeb® 750 WG Fungicide is a protectant fungicide for the control of certain fungus diseases in many crops.

For best results, apply as a regular spray programme. Thorough coverage of the treated crop is essential.

### FUNGICIDE RESISTANCE WARNING

GROUP	Y	FUNGICIDE
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For fungicide resistance management Mancozeb® 750 WG Fungicide is a Group Y fungicide. Some naturally occurring individual fungi resistant to Mancozeb® 750 WG 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 Mancozeb® 750 WG 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, Australia Pty Ltd accepts no liability for any losses that may result from the failure of Mancozeb® 750 WG to control resistant fungi.

### MIXING

Slowly place into spray tank as it is being filled, or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, surfactants etc. after Mancozeb® 750 WG Fungicide has been placed into suspension.

Maintain sufficient agitation during mixing and spraying to prevent the product settling out and to ensure a uniform spray mixture. Rinse out spray tank, pumps and nozzles at the end of the day. When preparing spray solutions

for use in hand sprayer, premix as a slurry in a small container, and then add to sprayer containing one-third to half desired final water volume.

### SURFACTANTS

The addition of agricultural surfactants to Mancozeb® 750 WG Fungicide will improve initial spray deposits, fungicide redistribution and weatherability. Use a Spreader-Sticker per label directions if needed.

### APPLICATION

#### Dilute Spraying – Tree and Vine Crops only

Use a sprayer designed to apply high volumes of water up to the point of run-off and match 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 first run-off. Avoid excessive run-off. 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 run-off. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

#### Concentrate Spraying – Tree and Vine Crops only

Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.

Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.

Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. Consult your local advisor, agronomist or Department of Agriculture to determine this volume. This is needed to calculate the concentrate-mixing rate.

The mixing rate for concentrate spraying can then be calculated in the following way.  
Concentrate Spraying Example

1. Dilute spray volume as determined above:  
e.g. 1,000 L/ha;
2. Your chosen concentrate spray volume:  
e.g. 500 L/ha;
3. The concentration factor is  $2 \times (1,000 / 500)$ : and
4. If the dilute label rate is 150 g/100 L, then the concentrate rate becomes  $2 \times 150$ , i.e. 300 g/100 L of concentrate spray.
  - The chosen spray volume, amount of product per 100 L of water and the sprayer set up 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.
  - For concentrate application, use a spray volume of 20 L or more per hectare.
  - For dilute application, apply to run-off. See Dilute Spraying above.

#### **AERIAL APPLICATION**

May be applied by agricultural aircraft.

Use at least 30 to 50 litres of spray mixture per hectare. Consult the Direction For Use for the correct rate to be applied in specific crop situations.

#### **SPRAY TIMING**

Treatments should begin prior to disease infection and continue until the threat of disease has passed.

Repeated applications are necessary to protect new plant growth.

Reduce the spray interval when weather conditions favour disease development.

#### **COMPATIBILITY**

Mancozeb® 750 WG Fungicide may be harmful to *Typhlodromus pyri*, and its use in orchards where integrated control is practiced should be avoided.

This product is compatible with most commonly used agricultural fungicides and insecticides, however, before preparing tank mixes, the user is advised to check compatibility with the other manufacturer's recommendations.

#### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

This product is toxic to fish. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighbouring areas. **DO NOT** contaminate ponds, waterways or drains with the chemical or used containers. **DO NOT** re-use container.

#### **STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from fire and sparks. **DO NOT** allow to become wet or overheated in storage: decomposition, impaired activity or fire may result.

**DO NOT** store near food, feedstuffs, fertilizers or seed. Users are reminded this product should be used before the stated expiry date. Shake empty bag into spray tank. **DO NOT** dispose of undiluted chemicals on-site.

Puncture or shred and bury empty containers in a local authority landfill. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

#### **SAFETY DIRECTIONS**

May irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. **DO NOT** inhale dust. Wash hands after use.

## DIRECTIONS FOR USE

### NON-TREE & VINE CROPS

FIELD CROPS					
CROP	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
<b>Cotton</b> – Pima var. only	Alternaria Leaf Spot	–	2.5 kg	14 days (H)	Mancozeb® 750 WG is a protectant fungicide. To maximise control ensure thorough coverage of all plant surfaces. Begin applications as soon as disease symptoms appear. Repeat before each infection period (eg. dew or rain) but no later than 7 to 10 days after the last application. <b>DO NOT</b> apply more than 4 sprays per season.
<b>Fennel</b> (Tas only)	Leaf Blight ( <i>Cercosporidium</i> )	150-200 g	2.2 kg		Apply as a ground spray if disease symptoms are present in November, allowing for one repeat treatment 10-14 days later. Aerial application may be required in prolonged wet periods.
<b>Peanuts</b>	Cercospora Leaf Spot, Rust	–	1.7-2.2 kg	14 days (H)  14 days (G)	Apply at 10 to 14 day intervals commencing when disease symptoms first appear. If Rust is anticipated, apply at 7 to 10 day intervals. Use higher rate and shorter spray interval during weather conditions favourable to disease development.
<b>Sunflowers</b>  For parent & hybrid seed production	Rust	–	2.2 kg	DO NOT GRAZE	Apply when disease symptoms first appear and repeat at 7 to 10 day intervals while warm rainy weather conditions prevail. It is crucial to ensure application provides excellent coverage.
<b>Poppies</b>	Downy Mildew	–	2.5 kg	7 weeks (H)	Apply as protectant spray when weather conditions favour disease development. Repeat spray on 14 day intervals if conditions persist.
<b>Tobacco</b>	Blue Mould, Brown Spot, Frog Eye Leaf Spot	200 g	2.2 kg	Not required	<b>Field Treatments:</b> Apply at 7 day intervals commencing 10 days after transplanting and ceasing 7 to 10 days before the first harvest. Increase the spray volume accordingly as plant size increases.  <b>Seed bed Treatments:</b> Apply when seedlings are 1.5 cm across and then repeat twice weekly. Wet the seedlings evenly without run-off.
<b>Soybeans</b>	Rust	–	2.2 kg	7 days (H) 14 days (G)	Apply when disease symptoms first appear and repeat at 7 to 10 day intervals while warm rainy weather conditions prevail.

FRUIT					
CROP	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
Bananas	Leaf Spot ( <i>Mycosphaerella musicola</i> ), Leaf Speckle, Cordana Leaf Spot, Fruit Speckle, Black Pit	200 g plus spray oil (used according to its label directions)	1.25-1.60 kg plus 4-6 L Polyphase summer oil	Nil (H)	<p>Apply when weather conditions favour disease outbreak. Good deleafing practices are essential for effective disease control. Remove infected leaf regularly. Use higher rates when spray coverage of Mancozeb® 750 WG is compromised by aerial application conditions or terrain. Control of Leaf Spot may be improved by aerial application and suppression of leaf speckle may be improved with application by airblast sprayers from the ground.</p> <p><b>North Queensland, WA, NT:</b> Repeat sprays at 2-4 week intervals. <b>DO NOT</b> extend spray intervals beyond 2 weeks until the plantation has been thoroughly de-leafed. <b>DO NOT</b> extend spray intervals beyond 2 weeks if conditions are favourable for disease, for example, wet and/or humid weather or if disease pressure is high.</p> <p><b>South Queensland, NSW:</b> Repeat sprays at 2-3 week intervals during the warm, humid and/or wet months (ie. December or January to May).</p>

VEGETABLES					
CROP	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
<b>Capsicum</b>	Target Spot	150-200 g	2-3 kg	14 days (H)	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
<b>Tomatoes</b>	Early Blight (Target Spot), Late Blight (Irish Blight), Anthracnose Leaf Mould ( <i>Fulvia fulva</i> ), Grey Leaf Spot, Phoma Rot			7 days (H)	
<b>Onion and Garlic</b>	Downy Mildew, Purple Blotch		2.2-3.5 kg	14 days (H)	
<b>Celery</b>	Septoria Leaf Spot (Leaf Blight)		1.7-2.2 kg		
<b>Carrots</b>	Cercospora Leaf Spot, Alternaria Leaf Spot				
<b>Lettuce</b>	Anthracnose, Downy Mildew, Septoria Leaf Spot				
<b>Spinach, Silver Beet, Beetroot</b>	Downy Mildew, Cercospora Leaf Spot		Not required		
<b>Rhubarb</b>	Downy Mildew, Rust				
<b>Potatoes</b>	Early Blight (Target Spot), Late Blight (Irish Blight)				
<b>COLE CROPS and CUCURBITS</b>					
<b>Cabbage, Cauliflower, Brussels Sprouts, Broccoli</b>	Anthracnose, Downy Mildew, Alternaria Spot, Ring Spot	7 days (H)			
<b>Cucumber, Cantaloupe, Pumpkin, Melons, Zucchini, Squash</b>	Anthracnose, Downy Mildew, Gummy Stem Blight, Septoria Spot				

PULSES GROWN FOR DRY BEANS					
CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS	
<b>Broad Beans / Faba Beans</b>	Ascochyta Blight, Cercospora Leaf Spot, Chocolate Spot, Rust	1.0-2.2 kg	4 weeks (H)	Spray when leaves, flowers or pods on most plants first show signs of infection and weather conditions are likely to remain humid or wet and favour disease development and repeat at 7-10 day intervals. If disease pressure is severe and weather conditions favour spread of the disease, repeat the spray treatment at 2-3 week intervals in order to protect new growth and developing pods. Use higher rate for dense crops and if disease is severe. Repeat more frequently if severe disease persists. For improved coverage add a registered surfactant at 10-20 mL/100 L of spray.	
<b>Chickpeas</b>	Ascochyta Blight, Botrytis Grey Mould		14 days (G)		
<b>Field Peas</b>	Ascochyta Blight, Black Spot, Botrytis Grey Mould, Rust				
<b>Lentils and Vetch</b>	Ascochyta Blight, Botrytis Grey Mould, Rust				
<b>Lupins</b>	Botrytis Grey Mould, Anthracnose				
<b>Beans</b> ( <i>Phaseolus</i> spp.)	Anthracnose, Ascochyta Blight, Angular Leaf Spot, Rust				

PEAS & BEANS GROWN FOR FRESH CONSUMPTION				
CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
<b>Broad Beans / Faba Beans</b>	Cercospora Leaf Spot, Rust	1.7-2.2 kg	7 days (H)  14 days (G)	Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development. Spray when leaves, flowers or pods show first sign of infection and weather conditions are likely to remain humid or wet and favour disease development.
	Chocolate Spot, Ascochyta Blight (suppression only)			If disease pressure is severe and weather conditions favour spread of the disease, repeat the spray treatment at 2-3 week intervals in order to protect new growth and developing pods. Use higher rate for dense crops and if disease is severe.
<b>Peas</b> ( <i>Pisum</i> spp.)	Ascochyta Leaf Blight (suppression only)			<b>Volume of application:</b> For ground equipment apply 100 L/ha; For aircraft spray apply at least 30 L/ha.
	Rust			
<b>Green Beans</b> ( <i>Phaseolus</i> spp.)	Anthracnose, Angular Leaf Spot, Rust			Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development. Spray when leaves, flowers or pods show first sign of infection and weather conditions are likely to remain humid or wet and favour disease development.

TURF AND ORNAMENTALS			
CROP	DISEASE	RATE /100 L	CRITICAL COMMENTS
<b>Turf</b>	Fusarium, Rhizoctonia, Helminthosporium	200-250 g/100 sq. metres	Apply as a protective spray schedule at 7 day intervals throughout the susceptible season. Use sufficient water for adequate coverage. <b>DO NOT</b> feed grass clippings from treated areas to poultry or animals.
<b>Roses</b>	Black Spot	150-200 g	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.  <b>Caution:</b> This product may be Phytotoxic to some ornamental species (in particular some varieties of ferns). It is recommended to test a few plants before widespread use.
<b>Gladioli, Chrysanthemums</b>	Grey Mould (Botrytis), Septoria Leaf Spot, Rust		
<b>Carnations</b>	Alternaria Leaf Spot, Rust		
<b>Flowers, Shrubs</b>	Septoria Leaf Spot		
<b>Ferns</b>	Botrytis Leaf Spot	75-100 g	

TREE AND VINE CROPS				
RATE				CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application Section.				
CROP	DISEASE	RATE /100 L	WHP	
<b>Pome Fruits</b> Apples, Pears	Pear Scab, Apple Scab (Black Spot), Target Spot, Bitter Rot, Sooty Blotch, Fly Speck, Ripe Fruit Spot	150-200 g	14 days (H)	Apply at 7 to 14 day intervals following a copper spray at green tip. Use the higher rate and shorter spray interval during prolonged wet conditions. This product may be harmful to <i>Typhlodromus pyri</i> and its use in orchards where integrated control is practiced should be avoided.
	<b>Stone Fruit</b> Almonds, Peaches, Apricots, Plums (except early plums such as Wilson & Wickson), Nectarines, Cherries			Brown Rot, Freckle, Rust, Shot Hole
<b>Passion Fruit</b>	Brown Spot ( <i>Alternaria passiflorae</i> ), Septoria Spot	150 g	1 day (H)	Apply at 10 to 14 day intervals from October to May and every 21 to 28 days for remainder of year.
	Anthracnose	200 g plus 600 mL miscible summer oil		Spray at weekly intervals during flowering and then fortnightly until near harvest.
<b>Pawpaws</b> (Papaya)	Black Spot	200 g	1 day (H)	Apply Mancozeb® 750 WG plus a wetting agent at 10-14 day intervals during periods conducive to disease.
<b>Custard apples</b>	Pseudocercospora Fruit Spot			<b>DO NOT</b> apply during flowering. Apply as 3-4 week intervals from first fruit set until harvest. Apply at 2 week intervals in wet, cloudy weather.
<b>Mangoes</b>	Anthracnose ( <i>Collectotrichum gloeosporioides</i> )			Apply at weekly intervals during flowering and then monthly intervals until harvest.
<b>Grapevines</b>	Black Spot, Downy Mildew		30 days (H)	For Black Spot control apply at budburst and then repeat 10 to 14 days later. If Downy Mildew is expected, continue spray programme at 10 to 14 day intervals until the threat of disease has passed. Use the shorter spray interval during weather conditions favourable to disease development.
	Phomopsis Cane, Leaf Spot	150-200 g		Apply at budburst and then repeat 7 to 10 days later.

<b>RATE</b>				<b>CRITICAL COMMENTS</b>
<b>CROP</b>	<b>DISEASE</b>	<b>RATE /100 L</b>	<b>WHP</b>	
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application Section.				<b>For all uses in this table:</b> Apply by dilute or concentration spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
<b>Citrus</b>	Black Spot, Citrus Rust Mite, Brown Citrus Mite	200 g plus spray oil (used according to directions)	Not required	
	Citrus Bud Mite			Add an adjuvant (spreader/sticker) according to the adjuvant label recommendation per 100 L. Choose a spray oil recommended for use on citrus.  <b>On heavy soil:</b> Spray at eight and at 15 weeks following a Bordeaux (5-5-100) spray at petal fall.  <b>On light soil:</b> Spray at six and at thirteen weeks following a Bordeaux (3.5-3.5-100) spray at petal fall.  <b>Queensland:</b> Spray at six and twelve weeks after a copper spray at ½ to ¾ petal fall. Apply at first sign of mite activity on fruit, usually between December and May.  Apply when blossom malformation is observed, usually February. Choose a spray oil recommended for use on citrus.

#### Harvest (H), Grazing (G)

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

#### WITHHOLDING PERIODS:

##### Withholding Period prior to Harvest:

**BANANAS:** Not Required when used as directed.

**MANGOES, PASSION FRUIT, CUSTARD APPLES:** DO NOT Harvest for 1 day after application.

**PAWPAWS (PAPAYA):** DO NOT HARVEST FOR 1 DAY AFTER APPLICATION. Papaya leaves must not be made available for Human consumption.

**BULB VEGETABLES, CELERY, CARROTS, COLE CROPS, CUCURBITS, TOMATOES, SOYBEANS, GREEN BEANS:** DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

**CAPSICUMS, LETTUCE, SPINACH, SILVER BEET, BEETROOT, RHUBARB, POME AND STONE FRUIT, NECTARINES, ALMONDS, PEANUTS, FENNEL:** DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

**GRAPEVINES:** DO NOT HARVEST FOR 30 DAYS AFTER APPLICATION.

**BROAD BEANS, FABA BEANS, PEAS:**

**HARVEST for FRESH CONSUMPTION:** DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

**HARVEST for DRY CONSUMPTION:** DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

**CHICKPEAS, FIELD PEAS, LUPINS LENTILS, VETCH:** DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

**POPPIES:** DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION.

**CITRUS, POTATOES, TOBACCO:** Not Required when used as directed.

##### Withholding Period prior to Grazing:

**SOYBEANS, PEANUTS:** DO NOT graze or cut for stockfeed for 14 days after application.

**BEANS, FIELD PEAS, CHICKPEAS, LENTILS, LUPINS, VETCH:** DO NOT graze or cut for stockfeed for 14 days after application.

**PAWPAWS (PAPAYA):** DO NOT use or supply treated papaya including leaves for stock food.

**COTTON:** DO NOT graze livestock on treated crops or feed treated crops, stubble and/or trash (including cotton gin trash) to livestock.

**SUNFLOWERS:** DO NOT graze livestock on treated crops or feed treated crops and/or trash to livestock.



## **NOTICE TO BUYER**

To the extent permitted by the Competition and Consumer Act (2010) or any relevant legislation of any State or Territory (the "Legislation") all conditions and warranties and statutory or other rights of action, whether arising in contract or tort or whether due to the negligence of FMC or Seller, which buyer or any other user may have against FMC or Seller are hereby excluded provided however that any rights of the buyer pursuant to non-excludable conditions or warranties of the Legislation are expressly preserved. FMC hereby gives notice to buyer and other users that to the extent permitted by the Legislation it will not accept responsibility for any indirect or consequential loss of whatsoever nature arising from the storage, handling or use of this Product. Where permitted by the Legislation FMC's liability shall in all circumstances be limited to the replacement of the product, or a refund of the purchase price paid therefor.

The Product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of FMC or the Seller. Buyer accepts these risks.

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**IN A MEDICAL EMERGENCY CALL 1800 033 111 ALL HOURS**

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