

# CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# MANZATE<sup>®</sup>

## 750 WG FUNGICIDE

ACTIVE CONSTITUENT: 750 g/kg MANCOZEB



GROUP

**M3**

FUNGICIDE

**For the control of certain diseases of field crops, fruit, ornamentals, turf and vegetables as per the directions for use.**

**NET CONTENTS: 20KG**

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QR CODE  
30W X  
35H



**DIRECTIONS FOR USE:**

For use in all States when appropriate for the crop and/or disease

CROP	DISEASE	RATE/100 L	RATE/HA	WHP Harvest (H) Grazing (G)	CRITICAL COMMENTS
<b>FIELD CROPS</b>					
Cotton – Pima variety only	Alternaria leaf spot	-	2.5 kg	14 days (H)	Manzate 750 WG Fungicide 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 (e.g. dew or rain) but no later than 7 to 10 days after the last application. <b>DO NOT apply more than 4 sprays per season.</b>
Peanuts	Cercospora leaf spot Rust	-	1.7 to 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.
Poppies	Downy mildew	-	2.5 kg	7 weeks (H)	Apply as protectant spray when weather conditions favour disease development. Repeat spray at 14 day intervals if conditions persist.
<b>PEAS AND BEANS (grown for fresh consumption)</b>					
Broadbeans/ Faba beans	Rust, Cercospora leaf spot	-	1.7 to 2.2 kg	14 days (H) 14 days (G)	Apply when disease symptoms first appear and 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 and pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development. <b>DO NOT apply more than 4 applications per season.</b>
Peas ( <i>Pisum</i> spp.)	Rust	-	-	-	-
Green beans ( <i>Phaseolus</i> spp.)	Rust, Anthracnose, Angular leaf spot	-	-	-	-
Broadbeans/ Faba beans	Chocolate spot, Ascochyta blight (suppression only)	-	1.7 to 2.5 kg	-	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 pressure is severe. Volume of application: for ground apply 100 L/ha; for aircraft apply at least 30 L/ha. <b>DO NOT apply more than 4 applications per season.</b>
Peas ( <i>Pisum</i> spp.)	Ascochyta leaf blight (suppression only)	-	-	-	-
<b>PULSE CROPS (grown for dry beans)</b>					
Broadbeans/ Faba beans	Ascochyta blight, Black spot, Botrytis grey mould, Chocolate spot, Rust	-	1 to 2.2 kg	4 weeks (H) 14 days (G)	Spray when leaves, flowers or pods on plants first show signs of infection and weather conditions are likely to remain humid or wet and favour disease development. If disease pressure is severe and conditions favour spread of disease repeat sprays at 2 to 3 weeks to protect new growth and developing pods. Use higher rate for dense crops and if disease is severe and repeat more frequently if severe disease persists. For improved coverage add a registered surfactant at 10 to 20 mL per 100 L of spray. <b>DO NOT apply more than 4 applications per season.</b>
Chickpeas	Ascochyta blight, Botrytis grey mould	-	-	-	-
Field Peas	Ascochyta blight, Black spot, Botrytis grey mould, Chocolate spot, Rust	-	-	-	-
Lentils & Vetch	Ascochyta blight, Botrytis grey mould, Rust	-	-	-	-
Lupins	Botrytis grey mould, Anthracnose	-	-	-	-
Beans ( <i>Phaseolus</i> spp.)	Rust, Anthracnose, Angular leaf spot	-	-	-	-
Soybeans	Rust	-	2.2 kg	7 days (H) 14 days (G)	Apply when disease symptoms first appear and repeat at 7 to 10 day intervals from flowering to pod filling, while warm, rainy weather conditions prevail.
Tobacco	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 runoff. <b>DO NOT apply more than 10 applications per season.</b>
<b>FRUIT</b>					
Bananas	Leaf spot ( <i>Mycosphaella muscolata</i> )	200 g* product plus spray oil (used according to its label directions)	2.2 to 4.5 kg plus spray oil (used according to its label directions)	Nil (H)	Apply when weather conditions favour disease outbreak. Repeat treatments in accordance with locally recommended spray schedules. Use sufficient water to ensure coverage. <b>New South Wales:</b> Ground Application: Apply at three week intervals from December or January until May. Aerial Application: Apply at 7 to 10 day intervals from December or January until May. <b>South Queensland:</b> Apply at three week intervals from December or January until May. <b>North Queensland and NT:</b> Apply every two weeks during the wet season. Extend to three weeks after this and then four to five weeks during the drier months returning to three weeks prior to the next wet season. For concentrate spraying using misters, refer to Concentrate Spraying under APPLICATION to determine appropriate rate.
	Black pit, Cordana leaf spot, Fruit speckle, Leaf speckle	200 g	2.2 kg	-	-
<b>ORNAMENTALS</b>					
Carnations	Rust, Alternaria leaf spot	150 to 200 g/100 L spray	-	-	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. During weather conditions favourable to disease development, use the higher rate and shorter spray interval.
Chrysanthemums, Gladioli	Grey mould ( <i>Botrytis</i> ), Septoria leaf spot	-	-	-	Caution: Manzate 750 WG Fungicide may be phytotoxic to some ornamental species (in particular some varieties of ferns). It is recommended to test a few plants before widespread use.
	Rust	-	-	-	-
Flowers Shrubs	Septoria leaf spot	-	-	-	-
Roses	Black spot	-	-	-	-
Ferns	Botrytis leaf spot	75 to 100 g/100 L spray	-	-	-
Turf	Fusarium, Helminthosporium, Rhizoctonia	200 to 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>VEGETABLES</b>					
Beetroot, Silverbeet, Spinach	Cercospora leaf spot, Downy mildew	-	1.7 to 2.2 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.
Capsicum	Target Spot	-	2 to 3 kg	14 days (H)	-
Carrots	Alternaria leaf spot, Cercospora leaf spot	-	1.7 to 2.2 kg	7 days (H)	-
Celery	Septoria leaf spot (leaf blight)	-	-	-	-
<b>Cole Crops</b> Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Alternaria spot, Anthracnose, Downy Mildew, Ring spot	-	-	-	-
<b>Cucurbits</b> Cantaloupe, Cucumber, Melons, Pumpkin, Squash, Zucchini	Anthracnose, Downy mildew, Gummy stem blight, Septoria spot	-	-	-	-
Fennel (Tas only)	Leaf blight ( <i>Cercosporidium</i> )	-	2.2 kg	14 days (H)	Apply as a ground spray if disease symptoms are present in November, allowing for one repeat treatment 10 to 14 days later. Aerial application may be required in prolonged wet periods.
Lettuce	Anthracnose, Downy Mildew, Septoria leaf spot	150 to 200 g	1.7 to 2.2 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.
Onions & Garlic	Downy mildew, Purple blotch	-	2.2 to 3.5 kg	7 days (H)	-
Potatoes	Early blight (Target spot), Late blight (Irish blight)	-	1.7 to 2.2 kg	Not required	-
Potato seed pieces	Fusarium seed piece decay	250 g	-	-	Clean potatoes and dip whole or pre-cut tubers in the mixture. Place treated tubers in clean container following treatment and plant as soon as possible. Spread in a cool place if held before planting.
Rhubarb	Downy mildew, Rust	150 to 200 g	1.7 to 2.2 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.
Tomatoes	Anthracnose, Early blight (target spot), Grey leaf spot, Late blight (Irish blight), Leaf mould (Fulvia fulva), Phoma rot	150 to 200 g	2 to 3 kg	7 days (H)	-

CROP	DISEASE	RATE/100L	WHP Harvest (H), Grazing (G)	CRITICAL COMMENTS
<b>TREE AND VINE CROPS (Continued)</b>				
<b>RATE:</b> In the following table all rates are given for dilute spraying. For concentrate spraying refer to the Application Section.		<b>CRITICAL COMMENTS:</b> For all uses in this table: 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>CROP</b>	<b>DISEASE</b>	<b>RATE/100L</b>	<b>WHP Harvest (H), Grazing (G)</b>	<b>CRITICAL COMMENTS</b>
Passion Fruit	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 (NSW only)	200 g + 600 mL miscible summer oil	-	Spray at weekly intervals during flowering then fortnightly until near harvest.
Pawpaws (Papaya)	Black spot	200 g	1 day (H)	Apply Manzate 750 WG Fungicide plus a wetting agent at 10 to 14 day intervals during periods conducive to disease.
<b>POME FRUITS</b> Apples, Pears	Apple Scab (Black spot), Bitter rot, Fly speck, Pear Scab, Ripe fruit spot, Sooty blotch, Target spot	150 to 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. Manzate 750 WG Fungicide may be harmful to <i>Typhlodromus pyri</i> and its use in orchards where integrated control is practiced, should be avoided.
<b>STONE FRUITS</b> Almonds, Apricots, Cherries, Nectarines, Peaches, Plums* (see Critical Comments*)	Brown rot, Freckle, Rust, Shot hole	-	-	Apply at early bloom (1-10%), then repeat at mid to full bloom (50 -100%); at petal fall, and at shuck fall. Continue with a protective spray program at two week intervals. * Caution: Manzate 750 WG Fungicide may be phytotoxic to Wilson, Wickson and Bellarosa varieties of plums. It is advisable to test any new plum variety on a small scale with Manzate 750 WG Fungicide before applying to the whole crop.

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

**WITHHOLDING PERIODS**

**HARVEST**

**ALMONDS, BEETROOT, COTTON, CAPSICUM, FENNEL, LETTUCE, PEANUTS, POME AND STONE FRUIT, RHUBARB, SILVERBEET, SPINACH: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

**BANANAS, CITRUS, POTATOES, TOBACCO: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.**

**BEANS, CARROTS, CELERY, COLE CROPS, CUCURBITS, GARLIC, ONIONS, PEAS, SOYBEANS, TOMATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

**CUSTARD APPLES, PAWPAWS (PAPAYA), PASSIONFRUIT, MANGOES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

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

**GREEN LEGUMES, PULSE CROPS (EXCEPT SOYBEANS):**

**- GREEN CROPS: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

**- GRAIN CROPS: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

**POPPIES: DO NOT HARVEST FOR 49 DAYS AFTER APPLICATION.**

**GRAZING**

**COTTON - DO NOT ALLOW LIVESTOCK TO GRAZE COTTON CROP, STUBBLE OR GIN TRASH THAT HAS BEEN TREATED WITH MANZATE 750 WG FUNGICIDE.**

**GREEN LEGUMES, PEANUTS, PULSE CROPS, SOYBEANS - DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER LAST APPLICATION.**

**PAPAYA - DO NOT USE OR SUPPLY TREATED PAPAYA INCLUDING LEAVES FOR STOCK FOOD.**

**GENERAL INSTRUCTIONS:**

Manzate 750 WG Fungicide is a protectant fungicide for the control of certain fungus diseases in many crops. It affects the germination of spores by inhibiting the respiration process (multi-site action on several enzymes). For best results, the product should be applied as a regular spray program and is only effective when applied preventively before infection. When applied preventively, the potential for resistance is very low. Thorough coverage of the treated crop is essential.

**APPLICATION**

**Dilute Spraying**

- Use a sprayer designed to apply high volumes of water up to 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. Apply sufficient water to cover the crop to the point of runoff. 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.
- Always apply sufficient water to cover the crop to the point of runoff, otherwise under-spraying will occur and disease control may be inadequate.

**Concentrate Spraying**

- 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. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

**Example Only**

- Dilute spray volume as determined above: For example 1500 L/ha
- Your chosen concentrate spray volume: For example 500 L/ha
- The concentration factor in this example is: 3 times (i.e. 1500 L divided by 500 L = 3)
- If the dilute label rate is 150 g/100 L, then the concentrate rate becomes 3 x 150, that is, 450 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.

**AERIAL APPLICATION**

The product may be applied by agricultural aircraft. Use at least 30 to 50 L of spray solution per hectare. For Bananas use a total spray volume of 30 to 35 L/ha.

**SPRAY TIMING**

The product treatments should begin prior to disease infection and continue until the threat of disease has passed. Repeat applications are necessary to protect new plant growth. Where two rates of application and/or two time intervals are recommended use the higher use rate and/or shorter time interval when weather conditions favour disease development.

**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 Manzate 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 a hand sprayer, pre-mix as a slurry in a small container, and then add to sprayer containing one-third to half the desired volume of water.

**SURFACTANTS**

For improved coverage and spray retention add a surfactant according to its label instructions.

**TANK CLEANOUT**

Immediately after application, completely drain equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Loosen and physically remove visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Take all necessary precautions when cleaning equipment.

**FUNGICIDE RESISTANCE WARNING**

<b>GROUP</b>	<b>M3</b>	<b>FUNGICIDE</b>
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Manzate 750 WG is a member of the multi-site mode of action group of fungicides. For fungicide resistance management the product is a Group M3 fungicide. Some naturally occurring fungal populations resistant to the product and other Group M3 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product and other Group M3 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, UPL Australia Pty Ltd accepts no liability for any losses that may result from failure of this product to control the resistant fungi. Strategies to minimise the risk of fungicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local UPL Australia Pty Ltd Representative.

**COMPATIBILITY**

This product is compatible with most other fungicides, common insecticides and miticides including the organophosphorus compounds, the carbamate insecticides, the dithiocarbamate fungicides and wettable sulphur. This product is not compatible with lime sulphur. Before preparing tank mixes, the user is advised to check the compatibility with other manufacturers' 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 streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL**

Never allow the product to become wet during storage. This may lead to certain chemical changes, which will reduce the effectiveness of the product as a fungicide and create vapours, which may be flammable. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seeds and fertilisers. Single-rinse or shake remainder into spray tank. Do not dispose of undiluted chemicals on site. Puncture and deliver empty packaging to an approved waste management facility. 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 the eyes and skin. DO NOT inhale dust or spray mist. Wash hands after use.

**FIRST AID**

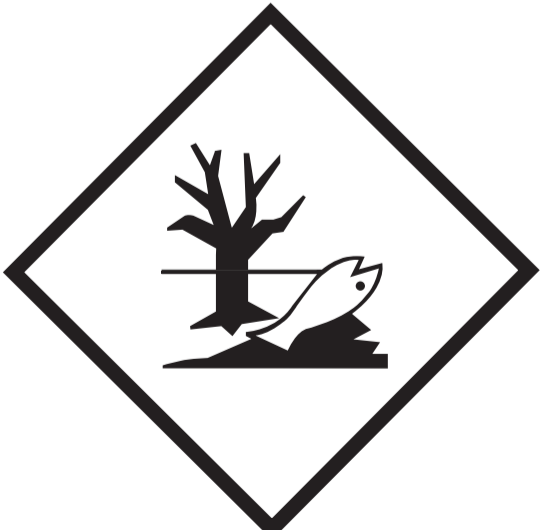
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. Avoid giving alcohol.

**SAFETY DATA SHEET**

Additional information is listed in the Safety Data Sheet that can be obtained from the supplier.

**CONDITIONS OF SALE:** UPL Australia Pty Ltd accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

<b>Additional statements required by Globally Harmonised System for classification and labelling of chemicals (GHS) and Safe Work Australia:</b>	
May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Read label before use. Obtain special instructions before use. Wash hands, face and all exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as required.	



<b>UN No.</b> <b>3077</b>	<b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB)</b>
In an Emergency Dial <b>000</b> Police or Fire Brigade	24 Hour Emergency Response Service Australia <b>1800 033 111</b> International <b>+61 3 9663 2130</b>
<b>P.G.III</b>	<b>HAZCHEM CODE: 22</b>

**BATCH NO**

**DOM**

**EXP: 3 years after production date.**

APVMA Approval No: 30582/136521  
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