

CAUTION

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

innova

Mancozeb 750

FUNGICIDE

ACTIVE CONSTITUENT: 750 g/kg MANCOZEB

GROUP

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FUNGICIDE

For the control of certain fungal diseases of field crops, fruit, ornamentals, tobacco, turf and vegetables as per the Directions for Use

25 kg NET

Syngenta Crop Protection Pty Limited
Level 1, 2-4 Lyon Park Road, North Ryde NSW 2113

APVMA Approval No: 61356/25/0906
IMa0806



DIRECTIONS FOR USE

For use in All States where appropriate for crop and/or disease

Restraint: DO NOT incorporate this product with an integrated mite control program

FIELD CROPS					
Crop	Disease	Rate		WHP	Critical Comments
		/100 L	/ha		
Cotton Pima variety only	Alternaria Leaf Spot	-	2.5 kg	14 days (H)	INNOVA MANCOZEB 750 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 last application. DO NOT apply more than 4 sprays/season.
Peanuts	Cercospora Leaf Spot, Peanut Rust		1.7 to 2.2 kg	14 days (H/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.
Pulses grown for dry beans					
Beans (<i>Phaseolus</i> spp)	Angular Leaf Spot, Anthracnose, Ascochyta Blight, 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. Repeat more frequently if severe disease persists. For improved coverage add a registered surfactant at 10 to 20 mL/100 L spray.
Broadbeans, Faba Beans,	Ascochyta Blight, Cercospora, Chocolate Spot, Rust				
Chickpeas	Ascochyta Blight, Botrytis Grey Mould				
Field peas	Ascochyta Blight, Black Spot, Botrytis Grey Mould, Rust				
Lentils, Vetch	Ascochyta Blight, Botrytis Grey Mould, Rust				
Lupins	Botrytis Grey Mould, Anthracnose				
Tobacco	Blue Mould, Brown Spot, Frog Eye Leaf Spot	200 g		-	

FRUIT				
Crop	Disease	Rate		Critical Comments
		/100 L	/ha	
Bananas	Black Pit, Cordana Leaf Spot, Fruit Speckle, Leaf Speckle	200 g	2.2 kg	Apply when weather conditions favour disease outbreak. Repeat treatments in accordance with locally recommended spray schedules. Use sufficient water to ensure good coverage. NSW: Ground application: Apply at 3 week intervals from December or January to May. Aerial application: Apply at 7 to 10 day intervals from December or January to May. Nth Qld: Apply every 2 weeks during the wet season. Extend to 3 weeks after this and then every 4 to 5 weeks during the drier months, returning to 3 weeks prior to the next wet season. Sth Qld: Apply at 3 week intervals from December or January to May.
	Leaf Spot	200 g plus spray oil used according to its label directions	2.2 to 4.5 kg plus spray oil used according to its label directions	

ORNAMENTALS			
Crop	Disease	Rate/100 L	Critical Comments
Carnations	Alternaria Leaf Spot, Rust	150 to 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. Caution: 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.
Chrysanthemums, Gladioli	Botrytis, Septoria Leaf Spot		
Roses	Black Spot		

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.				For all uses in this table apply by dilute or concentrate spraying equipment.
Crop	Disease	Rate/100 L	WHP	Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
Citrus	Black Spot	200 g plus spray oil used according to its label instructions	-	Heavy soil: Spray at 8 and 15 weeks following a Bordeaux spray (5-5-100) at petal fall. Light soil: Add an adjuvant (spreader/sticker) according to label recommendations/100 L. Spray at 6 and 12 weeks following a Bordeaux spray (3.5-3.5-100) at petal fall. Qld, NT: Spray at 6 and 13 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. Choose a spray oil recommended for use on citrus. Apply when blossom malformation is observed, usually February. Choose a spray oil recommended for use on citrus.
	Brown Citrus Mite, Citrus Rust Mite			
	Citrus Bud Mite			
Custard Apples	Pseudocercospora Fruit Spot	200 g	1 day (H)	DO NOT apply during flowering. Apply at 3 to 4 week intervals from first fruit set until harvest. Apply at 2 week intervals in wet, cloudy weather.

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.				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.
Crop	Disease	Rate/100 L	WHP	
Grapevines	Black Spot, Downy Mildew	200 g	30 days (H)	For Black Spot control apply every 10 to 14 days commencing at budburst. If Downy Mildew is expected, continue spray program 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.
	Leaf Spot, Phomopsis Cane	150 to 200 g		Apply at budburst and then repeat 7 to 10 days later.
Mangoes	Anthracnose (<i>Colletotrichum gloeosporioides</i>)	200 g	1 day (H)	Spray at weekly intervals during flowering and then at monthly intervals until near harvest.
Passionfruit	Anthracnose (NSW only)	200 g plus 600 mL miscible summer oil		Spray at weekly intervals during flowering and then fortnightly until near harvest.
	Brown Spot (<i>Alternaria passiflorae</i>), Septoria Leaf Spot	150 g		Apply at 10 to 14 day intervals from October to May and every 21 to 28 days for remainder of year.
Pawpaws (Papaya)	Black Spot	200 g	Apply with a wetting agent at 10 to 14 day intervals during periods conducive to disease.	
Pome Fruit Apples, Pears	Apple Scab (Black Spot), Bitter Rot, Fly Speck, Sooty Blotch, Target Spot	150 to 200 g	14 days (H)	Apply at 7 to 14 day intervals following a cover copper spray at green tip. Use higher rate and shorter interval between sprays where conditions favour disease. This product can be mixed with Systhane* 400WP Fungicide for the control of Apple Scab (Black Spot). Read and follow all recommendations on the label of the tank mix partner. This product may be harmful to <i>Typhlodromus pyri</i> and its use in orchards where integrated control is practiced should be avoided.
				Stone Fruit Almonds, Apricots, Cherries, Nectarines, Peaches, Plums [#]

TURF			
Crop	Disease	Rate/100 m ²	Critical Comments
Turf	Fusarium, Helminthosporium, Rhizoctonia	200 to 250 g	Apply as a protective spray schedule at 7 day intervals throughout the susceptible season. Use sufficient water for adequate coverage. DO NOT feed grass clippings from treated areas to poultry or animals.

VEGETABLES

Crop	Disease	Rate		WHP	Critical Comments
		/100 L	/ha		
Beans, Peas grown for fresh consumption					
Broadbeans, Faba Beans	Cercospora Leaf Spot, Rust	-	1.7 to 2.2 kg	7 days (H/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. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.
	Chocolate Spot, Suppression of Ascochyta Blight		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 to 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 Ground application: Apply 100 L/ha Aerial application: Apply minimum 30 L/ha
Green Beans (<i>Phaseolus</i> spp)	Angular Leaf Spot, Anthracnose, Rust		1.7 to 2.2 kg		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. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.
Peas (<i>Pisum sativum</i>)	Suppression of Ascochyta Leaf Blight		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 to 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 Ground application: Apply 100 L/ha Aerial application: Apply minimum 30 L/ha
	Rust		1.7 to 2.2 kg		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. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.
Beetroot, Silver Beet, Spinach	Cercospora Leaf Spot, Downy Mildew	150 to 200 g	1.7 to 2.2 kg	14 days (H)	Spray at first sign of disease, then 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		

VEGETABLES					
Crop	Disease	Rate		WHP	Critical Comments
		/100 L	/ha		
Carrots	Alternaria Leaf Spot, Cercospora Leaf Spot	150 to 200 g	1.7 to 2.2 kg	7 days (H)	Spray at first sign of disease, then at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
Celery	Septoria Leaf Spot				
Cole Crops Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Alternaria Spot, Anthracnose, Downy Mildew, Ring Spot				
Cucurbits 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, allow for 1 repeat treatment 10 to 14 days later. Aerial application may be required in prolonged wet periods.
Garlic, Onions	Downy Mildew, Purple Blotch	150 to 200 g	2.2 to 3.5 kg	7 days (H)	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use higher rate and shorter spray interval during weather conditions favourable to disease development.
Lettuce	Anthracnose, Downy Mildew, Septoria Leaf Spot			14 days (H)	
Potatoes	Early Blight, Late Blight			-	
Rhubarb	Downy Mildew, Rust			14 days (H)	
Tomatoes	Anthracnose, Early Blight (Target Spot), Grey Leaf Spot, Late Blight (Irish Blight), Leaf Mould, Phoma Rot			2 to 3 kg	

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

WITHHOLDING PERIODS

Harvest

Custard Apples, Mangoes, Pawpaws (Papaya):

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

PAPAYA LEAVES MUST NOT BE MADE AVAILABLE FOR HUMAN CONSUMPTION

Beans, Carrots, Celery, Cole crops, Cucurbits, Garlic, Green Legumes (green crops), Onions, Peas, Pulse crops (green crops), Tomatoes:

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

Almonds, Beetroot, Capsicums, Cotton, Fennel, Lettuce, Passionfruit, Peanuts, Pome fruit, Rhubarb, Silver Beet, Spinach, Stone fruit:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

Green Legumes (grain crops), Pulse crops (grain crops):

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION

Grapevines:

DO NOT HARVEST FOR 30 DAYS AFTER APPLICATION

Poppies:

DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION

Bananas, Citrus, Potatoes, Tobacco:

NOT REQUIRED WHEN USED AS DIRECTED

Grazing

Cotton:

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED COTTON CROP, STUBBLE OR GIN TRASH

Papaya:

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

Beans, Peas (for fresh consumption):

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION

Green Legumes, Peanuts, Pulse crops (grown for dry beans):

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

GENERAL INSTRUCTIONS

INNOVA MANCOZEB 750 is a protectant fungicide for the control of certain fungal diseases in many crops. For best results, apply as a regular spray program. Thorough coverage of the treated crop is essential.

Mixing

Slowly add the required amount of product to the spray tank as it is being filled or thoroughly premix in a nurse tank for concentrate or aerial spraying. Add other products after INNOVA MANCOZEB 750 is in suspension.

Continue agitation while 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, premix as a slurry in a small container, and then add to sprayer containing $\frac{1}{3}$ to $\frac{1}{2}$ the desired final water volume.

Compatibility

INNOVA MANCOZEB 750 may be harmful to *Typhlodromus pyri* and its use in orchards where integrated pest control is practiced should be avoided.

This product is compatible with most commonly used insecticides and miticides such as azinphos, carbaryl, dicofol, endosulfan, pirimicarb, propargite, sulphur powder, wetting agent or spreader-sticker. Also compatible with D-C-Tron.

As formulations of other manufacturers' products are beyond the control of Syngenta and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

Surfactants

The addition of a surfactant will improve initial spray deposits, fungicide redistribution and weatherability. Refer to manufacturers label instructions for further details.

Application

Dilute spraying: 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 water. Spray to the point of runoff. 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: 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 runoff) 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:

1. Dilute spray volume as determined above, eg 1500 L/ha
2. Your chosen concentrate spray volume, eg 500 L/ha
3. The concentration factor is 3 x (ie $1500/500 = 3$)
4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, ie 30 mL/100 L of concentrate spray.

The chosen spray volume, amount of product/100 L 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 always follow Industry Best Practices.

For fruit trees and some row crops apply as a high volume dilute spray.

The spray volume will vary according to the type of crop to be treated and should be increased in heavy growth and on large plants to ensure thorough coverage. The spray volume should also be increased as the size of treated crops increases throughout the growing season. As a guide for mature crops:

Bananas, tobacco, vines, other row crops	200 to 1100 L/ha
Pome, stone fruit	1100 to 4000 L/ha
Citrus	4000 to 8000 L/ha

Aerial application: May be applied by agricultural aircraft. Use at least 30 to 50 L spray mixture/ha.

Spray timing

Treatment should begin prior to disease infection and continue until the threat of disease passes.

Repeated applications may be required to protect new growth. Reduce the spray interval when weather conditions favour disease development.

Fungicide Resistance Warning

GROUP	Y	FUNGICIDE
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INNOVA MANCOZEB 750 Fungicide is a member of the multi site activity group of fungicides. For fungicide resistance management the product is a Group Y fungicide. Some naturally occurring individual fungi resistant to INNOVA MANCOZEB 750 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 INNOVA MANCOZEB 750 or 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, Syngenta Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of INNOVA MANCOZEB 750 to control resistant fungi.

PROTECTION OF LIVESTOCK

DO NOT graze treated turf/grass or feed turf/grass clippings from any treated area to poultry or livestock.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS, ENVIRONMENT AND OTHERS

Toxic to fish.

Drift and runoff 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.

DO NOT re-use containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Shake bag contents into spray tank until the bag is empty. DO NOT dispose of undiluted chemicals on site. Puncture or shred and bury empty bags 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. Empty bags and product should not be burnt.

SAFETY DIRECTIONS

May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. DO NOT inhale dust.

When opening the container and preparing spray, wear:

- cotton overalls, over normal clothing, buttoned to the neck and wrist
- washable hat
- elbow length PVC gloves
- goggles
- disposable dust mask covering mouth and nose

When using the prepared spray wear:

- cotton overalls, over normal clothing, buttoned to the neck and wrist
- washable hat
- elbow length PVC gloves

Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.



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APVMA Approval No: 61356/25/0906

IMa0806

Batch No	
Date of Manufacture	
Expiry Date	2 years from date of manufacture

UN-3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB) MARINE POLLUTANT PACKING GROUP III HAZCHEM 2X	
	
In a transport emergency dial 000, Police or Fire Brigade For specialist advice in an emergency only, call 1800 033 111 (24 hours)	