

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

MEDLEY[®] MZ

SYSTEMIC AND PROTECTIVE FUNGICIDE

**ACTIVE CONSTITUENTS: 640g/kg MANCOZEB
80g/kg METALAXYL**

GROUP	D	Y	FUNGICIDES
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**For control of Downy mildew and certain other foliar diseases on Grapevines,
Vegetables, Ornamentals, Poppies and Tobacco
as per the Directions for Use.**

**CONTAINS 2 X 1.25kg MEASURE PACKS (water soluble bags)
WHICH IT IS ILLEGAL TO SELL SEPARATELY**

NET CONTENTS: 2.5kg

Crop Care Australasia Pty Ltd, Unit 15/16 Metroplex Avenue, Murarrrie Qld 4172

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NOT TO BE SOLD SEPARATELY
BEFORE USE READ ALL DIRECTIONS ON THE OUTER PACK

WATER SOLUBLE PACKAGING - KEEP DRY

NET CONTENTS 1.25 kg

APVMA Approval No.: 62251/1.25MP/0807

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**For control of Downy mildew and certain other foliar diseases on Grapevines,
Vegetables, Ornamentals, Poppies and Tobacco
as per the Directions for Use.**

NET CONTENTS: 10 & 25kg

Crop Care Australasia Pty Ltd, Unit 15/16 Metroplex Avenue, Murarrrie Qld 4172

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply more than four sprays per season (except for tobacco). Use a recommended non-systemic fungicide for further applications.

DO NOT apply if rain is expected within 6 hours.

DO NOT apply as a curative spray as this will favour the development of resistant disease strains. Application should be on a protectant program basis only.

DO NOT use MEDLEY MZ for disease control in greenhouse crops.

VINE CROPS

Crop	Disease Controlled	State	Rate	WHP	Critical Comments
Grapevines	Downy mildew (<i>Plasmopara viticola</i>)	Qld, NSW, Vic, Tas, SA & WA only	Dilute spraying 250 g/100 L water Concentrate spraying Refer to the Application section	14 days	<p>Apply by dilute or concentrate spraying equipment.</p> <p>Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>This use is subject to a CropLife Australia Fungicide Resistance Management Strategy.</p> <p>Use in a protectant program commencing before disease occurs. Limit the use of Group D fungicides to periods when conditions favour disease development. Commence disease control sprays when the grapevine shoots are approximately 200 mm long and continue spraying at 7 to 21 day intervals, using a protectant or non-phenylamide fungicide (not Group D). Use the shorter interval under prolonged humid and wet conditions.</p> <p>When conditions favour Downy mildew development (prolonged humid and wet conditions) apply two consecutive sprays of MEDLEY MZ. Apply before the first sign of oil spots or as soon as possible after the infection period. DO NOT apply more than two consecutive sprays of a Group D product. Resume the program of protectant sprays. Apply a maximum of four MEDLEY MZ sprays per season.</p> <p>DO NOT apply to grapevines in flower in Queensland. Minor phytotoxic reactions on some varieties of grapes may occur under certain conditions.</p> <p>Dilute spraying: Apply to the point of runoff. Use a minimum of 500 litres mixture per hectare before flowering, increasing volume to a minimum of 1000 litres per hectare when vines are in full foliage.</p> <p>Concentrate spraying: Use a minimum of 125 litres mixture per hectare before flowering, increasing volume to a minimum of 250 litres per hectare when vines are in full foliage.</p>

OTHER CROPS

CROP	DISEASE	STATE	RATE			WHP	CRITICAL COMMENTS
			Boom Spraying/ Low Volume Application	Aircraft Spraying	High Volume Application		
Cucurbits	Downy mildew	All States	2.5 kg in 200 to 500 litres of water per ha	2.5 kg in 20 to 40 litres of water per ha	250 g per 100 litres of water	7 days	This use is subject to a phenylamide anti-resistance strategy. Maintain a regular spray program. Commence spraying early (ie. before main disease infection period) with a registered fungicide from a different activity group, eg. mancozeb. When conditions favour disease development apply 2 consecutive sprays of MEDLEY MZ at 7 to 10 day intervals and then resume the program of protectant or non-Group D fungicides. DO NOT wait for the disease to appear. Use the shorter interval when infection pressure is severe. Ensure thorough coverage of plants. DO NOT apply more than 4 sprays of MEDLEY MZ per season. Add a non-ionic surfactant such as 'Shirwet' 600 to the spray mix. Spraying can commence when plants have 3 to 4 true leaves.
	Anthracnose, Gummy stem blight, Alternaria leaf spot; also Septoria spot (Pumpkins)	Qld only					
Lettuce	Downy mildew, Septoria leaf spot, Anthracnose	All States	2.5 kg in 200 to 500 litres of water per ha		250 g per 100 litres of water; 35 g per 15 litres of water	14 days	This use is subject to a phenylamide anti-resistance strategy. Maintain a regular spray program. Commence spraying early (ie. before main disease infection period) with a registered fungicide from a different activity group, eg. mancozeb. When conditions favour disease development apply 2 consecutive sprays of MEDLEY MZ at 7 to 10 day intervals and then resume the program of protectant or non-Group D fungicides. DO NOT wait for the disease to appear. Use the shorter interval when infection pressure is severe. Ensure thorough coverage of plants. DO NOT apply more than 4 sprays of MEDLEY MZ per season. Add a non-ionic surfactant such as 'Shirwet' 600 to the spray mix. Spraying can commence when plants have 3 to 4 true leaves.
		Qld, Vic, SA, WA & Tas only		2.5 kg in 20 to 40 litres of water per ha			

CROP	DISEASE	STATE	RATE			WHP	CRITICAL COMMENTS
			Boom Spraying/ Low Volume Application	Aircraft Spraying	High Volume Application		
Onions	Downy mildew	All States	2.5 kg in 200 to 500 litres of water per ha	2.5 kg in 20 to 40 litres of water per ha	250 g per 100 litres of water	7 days	<p>This use is subject to a phenylamide anti-resistance strategy. Maintain a regular spray program. Commence spraying early (ie. before main disease infection period) with a registered fungicide from a different activity group, eg. mancozeb. When conditions favour disease development apply 2 consecutive sprays of MEDLEY MZ at 7 to 10 day intervals and then resume the program of protectant or non-Group D fungicides. DO NOT wait for the disease to appear. Use the shorter interval when infection pressure is severe. Ensure thorough coverage of plants. DO NOT apply more than 4 sprays of MEDLEY MZ per season. Add a non-ionic surfactant such as 'Shirwet' 600 to they spray mix.</p>
	Purple blotch	Qld only	2.5 kg in 500 litres of water per ha				
Ornamentals	Downy mildew	All States	2.5 kg in 200 to 500 litres of water per ha		150 g to 250 g per 100 litres of water	-	
Potatoes	Late blight, Early blight	All States	2.5 kg in 200 to 500 litres of water per ha	2.5 kg in 30 to 50 litres of water per ha	250 g per 100 litres of water	7 days	
	Pink rot	Vic, Tas, SA & WA only					<p>Make the first application 4-6 weeks after planting to crops previously treated at planting with MEDLEY MZ. Repeat applications at 14-day intervals then apply a program of protectant or non-Group D fungicides.</p>

CROP	DISEASE	STATE	RATE			WHP	CRITICAL COMMENTS
			Boom Spraying/ Low Volume Application	Aircraft Spraying	High Volume Application		
Poppies	Downy mildew (<i>Peronospora arborescens</i>)	Tas only	2.5 kg/ha			7 weeks	Commence spraying early (ie before main disease infection period) with a registered non-Group D fungicide eg mancozeb. When conditions favour disease development (high humidity, still weather, overcast skies) apply two applications of MEDLEY MZ at 7 to 10 day intervals and then resume the program of protectant or non-Group D fungicides. Use the shorter interval when infection pressure is severe. DO NOT wait for disease to appear. Ensure thorough coverage of plants. DO NOT apply more than 2 sprays per season of MEDLEY MZ. Add a non-ionic surfactant such as 'Shirwet' 600 to the spray mix.
Rhubarb	Downy mildew (<i>Peronospora jaapiana</i>)	All States	2.5 kg in 200 to 500 litres of water per hectare			14 days	Maintain a regular spray program. Commence spraying early (ie before main disease infection period) with a registered non-Group D fungicide eg mancozeb. When conditions favour disease development apply two consecutive applications of MEDLEY MZ at 7 to 10 day intervals and then resume the program of protectant or non-Group D fungicides. DO NOT wait for disease to appear. Use the shorter interval when infection pressure is severe. Ensure thorough coverage of plants. Note: Add a non-ionic surfactant such as 'Shirwet' 600 to the spray mix.

CROP	DISEASE	STATE	RATE			WHP	CRITICAL COMMENTS
			Boom Spraying/ Low Volume Application	Aircraft Spraying	High Volume Application		
Strawberries (non-fruiting)	Eye spot (<i>Mycosphaella fragariae</i>), Leaf blight (<i>Dendrophoma obscurans</i>), Root rot (<i>Phytophthora nicotianae</i> var. <i>parasitica</i>), Scorch (<i>Diplocarpon earlianum</i>)	All States			100 g in 100 litres of water	7 days	Apply as a dip for runners after digging. For control of diseases only in Strawberry Runner Approval Schemes.
Tobacco-Field	Blue mould, Brown spot	Qld, NSW & Vic only			250 g per 100 litres of water	7 days	Spray at 7-day intervals commencing 10 days after transplanting. Spray to thoroughly wet leaves. Apply initially - 200 litres per hectare Plants 1m high - 500 litres per hectare Fully grown - 800 litres per hectare
	Frog eye leaf spot	Qld only					
Tobacco-Seedbed	Blue mould	Qld, NSW & Vic only			18 g per 15 litres of water per 60 to 80 square metres	-	Spray at 7 day intervals commencing 5 weeks after emergence. Make final application on the day before planting out. Spray to thoroughly wet leaves. DO NOT drench. DO NOT apply to seedbeds until 5 weeks after emergence.

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

WITHHOLDING PERIODS:

CUCURBITS, ONIONS, POTATOES, STRAWBERRIES AND TOBACCO: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

GRAPES, LETTUCE, RHUBARB: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

POPPIES: DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

MEDLEY MZ is a fungicide combining the systemic properties of metalaxyl with the protective properties of Mancozeb. MEDLEY MZ should be applied as a protective fungicide before disease occurs. However if infection has already occurred, MEDLEY MZ should be applied as soon as possible after the infection period and preferably before oil-spots appear to obtain optimum control of downy mildew.

Fungicide Resistance Warning

GROUP D	Y	FUNGICIDES
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MEDLEY MZ is a combination of a Phenylamide and a Multi-site activity fungicide. For fungicide resistance management MEDLEY MZ is both a Group D and a Group Y fungicide.

Some naturally occurring individual fungi resistant to MEDLEY MZ and other Group D and 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 MEDLEY MZ and other Group D and 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, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of MEDLEY MZ to control resistant fungi.

Mixing

Fill the spray tank with $\frac{1}{4}$ of the required volume of water and start agitating. Add the required amount of product and allow to disperse. Add the remainder of the water while continuing to agitate. Ensure that the product is thoroughly mixed before spraying starts. Continue agitation during spraying. Agitate vigorously from the bottom of the spray tank if mixture is left to stand.

Water Soluble Bags: If MEDLEY MZ is supplied in water soluble bags, follow these instructions.

The water soluble bags dissolve easily in water. DO NOT excessively handle water soluble bags or expose to moisture. DO NOT touch bags with wet hands. Return unused bags to a primary pack. For mixing adhere to the following recommendations.

1. Partly fill the spray tank with water.
2. Throw in the required number of water soluble bags (or premix bags in bucket and add slurry to spray tank).
3. Ensure agitation system is fully engaged. Ensure bag does not enter filter system.
4. Top up with correct volume of water. Bag should be completely dissolved before spraying commences. Continue agitation to ensure MEDLEY MZ is in suspension during spraying.
5. DO NOT store prepared spray solution, when spray solution has been allowed to stand in the spray tank thoroughly re-agitate before using.

Tank Mixing

When mixing MEDLEY MZ and other water dispersible granule (WG) or wettable powder (WP) formulations, ensure that they are added and mixed well prior to adding emulsifiable concentrate (EC) or suspension concentrate (SC) products. Wettable powder (WP) formulations should be pre-mixed separately and then added to the spray tank.

Compatibility

MEDLEY MZ is compatible with Supracide[®] 400, Lannate[®] L, Shirwet[®] 600 Spray Activator Wetting and Spreading Agent and some formulations of carbaryl, endosulfan, sulphur and copper oxychloride.

Application

Special Instructions for Vines

Dilute Spraying

- ◆ Use a sprayer designed to apply high spray volumes, 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 spray solution to cover the crop to the point of run-off. Avoid excessive run-off.
- ◆ The required spray volume to achieve point of run off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other 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 to achieve point of run off 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 spray 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 spray 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: For example 1500 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
3. The concentration factor in this example is: 3 X (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
4. If the dilute label rate is 250 g/100 L, then the concentrate rate becomes 3 x 250, that is 750 g of product per 100 L water for concentrate spraying.

- ◆ 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.

PRECAUTIONS

Re-Entry Period

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and chemical resistant gloves. Clothing must be laundered after each day's use.

Flaggers

DO NOT use human flaggers unless they are protected by engineering controls such as vehicles with cabs.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Shake empty container into spray tank. Do not dispose of undiluted chemicals on site. 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. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

May irritate the eyes, nose and 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.* Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET

Additional Information is listed in the Material Safety Data Sheet which can be obtained from your supplier or the Crop Care website: www.cropcare.com.au

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE
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'Medley', 'Lannate', 'Shirwet' and 'Supracide' are registered trademarks.



Crop Care Australasia Pty Ltd
ACN 061 362 347
Unit 15/16 Metroplex Avenue
Murarrie Qld 4172
Tel: (07) 3909 2000

bar code and
print code to
be inserted

APVMA Approval No. : 62251/2.5kg/0807
62251/10kg/0807
62251/25kg/0807

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