

Goldazim[®]

FUNGICIDE

GROUP 1 FUNGICIDE

Active Constituent: 500g/L CARBENDAZIM

Poison Schedule: S6 (POISON)

APVMA Approval No: 53587



Eligible containers

5 L

10L

For control of fungal diseases on various crops and situations as specified in the Directions for Use Table

Pack Size:

5L (4 x 5L per carton)

10L

Dangerous Goods Class:

9

DIRECTIONS FOR USE

RESTRAINTS: DO NOT use if tolerant strains of the fungus are present. Refer to the RESISTANCEWARNING statement in the GENERAL INSTRUCTION section of this label.

- DIRECTIONS FOR USE TABLE STARTS ON NEXT PAGE -

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DIRECTIONS FOR USE					
1.Fruit					
Crop	Disease	State	Rate	WHP	Critical Comments
Apples	Black Spot (Scab) (<i>Venturia in-aequalis</i>)	NSW, ACT,Vic, Tas, SA,WA only	40 to 50mL/100L water	7 days	Spray at 7 to 10 day interval until petal fall. Use the higher rate when disease pressure is high
	Powdery Mildew (<i>Podospharea leucotricha</i>)	All states			
Pears	Black Spot (Scab) (<i>Venturia in-aequalis</i>)	NSW, ACT,Vic, Tas, SA,	25 to 50mL/100L water		
Apples, Pears	Blue Mould (<i>Penicillium expansum</i>)	All states	50mL/100L water	-	Post Harvest Dipping: Submerge fruit for approximately 30 seconds. Dipping should occur no later than 24 hours after harvest. Top up dip at the recommended application rate of 50mL/100L. Tas only . Always apply this treatment whenever the apples are to be dipped in diphenylamine prior to storage. This use is subject to an Avcare fungicide resistance strategy:: See Post-harvest Dipping Strategy under General Instructions.
Custard Apples	<i>Cylindrocladium spp</i> <i>Pseudocercospo- ra spp</i>	Qld, NSW only	50mL/100L water	3 days	DO NOT apply Goldazim in tank mixes with products containing copper oxychloride. Apply a maximum of 4 sprays. First spray to be applied at fruit set after flowering. Where disease has occured previously apply a second sparay 2-4 weeks later. If high disease pressure should occur, a further 2 sprays may be applied. All sprays must be applied at a minimum interval of 14 days.
Bananas	Crown Rot Harvest (<i>Colletotrichum musae</i>)	Qld, NSW,WA only	40mL/100L water	-	Submerge fruit for approximately 30 seconds. This use is subject to an Avcare See Post-Dipping Strategy under General fungicide resistance strategy:
Citrus	Blue and Green Moulds (<i>Pencillium spp</i>)	Qld, NSW, ACT, Vic, SA, WA only	100mL/100 water	-	

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DIRECTIONS FOR USE continued:					
Crop	Disease	State	Rate	WHP	Critical Comments
Grapes	Grey Mould (Bunch rot) (<i>botrytis</i>)	All states	100mL/100L water OR 1.1L/ha	1 day	Applications should be made in sufficient water to obtain through coverage of the crop. For application close to harvest this would require a minimum of 1100L/ha. Spray pressure should be high enough to ensure penetration of the leaf canopy and coverage of the bunches. This use is subject to an Avcare fungicide resistance strategy: 1. Apply at early flowering, 80-100% cap-fall and pre-bunch closure. Further applications may be necessary at veraison and pre-harvest, if wet weather favours infection. 2. Do not apply more than two consecutive sprays of a Group A or Group B fungicide in this programme. Alternate or tank mix with a registered protectant fungicide. 3. Do not apply more than four Group A or four Group B sprays in a season.
Mango	As post-harvest dip for anthracnose (<i>Colletotrichum</i> spp) and stem-end rot (<i>Dothiorella</i> spp)	Qld, NSW, WA, only	100mL/100L water	-	Submerge fruit for approximately 5 minutes at 52OC. This use is subject to an Avcare fungicide resistance strategy: See Post-harvest Dipping Strategy under General Instructions
Macadamia Nuts	Macadamia husk spot (<i>Pseudocercospora</i> spp.)	All states	50mL plus a wetting agent at 100mL/100L	14 days (H,G)	Apply at 5 and 8 weeks after main flowering - Stage 2 anthesis (white flowering stage). Remove any fallen nuts from under trees prior to spraying. DO NOT apply more than 2 applications of Goldazim per season.

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DIRECTIONS FOR USE continued:					
Crop	Disease	State	Rate	WHP	Critical Comments
Stone Fruit	Blossom Blight (<i>Monilinia fructicola</i>)	Qld, NSW, ACT, Vic, Tas, SA only	25mL to 50mL	1 day	Apply at pink or white bud stage. 10% of blossom and petal fall. Apply the higher rate when disease pressure is high. This use is subject to an Avcare fungicide resistance strategy: 1. Do not apply more than two consecutive sprays of fungicide from the same group before changing to another group. 2. A post-harvest dip should also be counted as an application. 3. The last blossom blight spray and the first pre-harvest brown rot spray should be regarded as consecutive sprays.
	Brown Rot (<i>Monilinia fructicola</i>)		40mL/100L		
Stone Fruit	As post harvest dip for Brown Rot (<i>Monilinia</i> , <i>Sclerothinia</i> spp).		50mL to 100mL/100L water	-	Submerge fruit for approximately 30 seconds. Use the higher rate where disease pressure is severe or where longer term storage is required. This use is subject to an Avcare fungicide resistance strategy: See Post-harvest Dipping Strategy under General Instructions
Rockmelons	Fusarium Fruit Rot (<i>Fusarium</i> spp) Sour Rot (<i>Geotrichum candidum</i>) Alternaria Fruit Rot (<i>Alternaria</i> spp) Rhizopus Soft Rot (<i>Rhizopus stolonifer</i>) Pink Mould Rot (<i>Trichothecium roseum</i>)	Qld, NSW, Vic, SA,WA,NT only	100mL plus 130mL Campbell Zanoctine plus 10mL non-ionic wetter/100L water	-	Dip fruit for 45 seconds within 24 hours of harvest.

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DIRECTIONS FOR USE continued:					
Crop	Disease	State	Rate	WHP	Critical Comments
Strawberries	Grey Mould (<i>Botrytis cinerea</i>)	NSW, ACT, Vic, Tas, SA, WA only	40 to 50mL/100L water	2 days	<p>Begin application at start of flowering and repeat at 7-14 day intervals. Use higher rate and shorter intervals when disease pressure is high.</p> <p>This use is subject to an Avcare fungicide resistance strategy:</p> <ol style="list-style-type: none"> 1. Apply a programme of protectant fungicides during flowering. If conditions favour disease development during this period, tank mix the protectant with a Group A fungicide. 2. Applications of Group A fungicides on their own should be confined to the harvest period only. 3. Avoid applying more than two successive sprays of a fungicide of the same chemical group during flowering and fruit ripening. 4. Alternate or tank mix different fungicide groups during fruit ripening. 5. Reduce background levels of disease by removing plant debris and rotted fruit.

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DIRECTIONS FOR USE continued:

2. Vegetable Spices

Crop	Disease	State	Rate	WHP	Critical Comments
Cucurbits	Powdery Mildew (<i>Spherotheca fuliginea</i>)	NSW, ACT, Vic, Tas, SA, WA, Qld only	40 to 50mL/100L water OR 400 to 500mL/ha	-	<p>Use the higher rate when disease pressure is high and plants are growing rapidly.</p> <p>This use is subject to an Avcare fungicide resistance strategy: Start disease control early. Do not wait for powdery mildew to appear before spraying, but start as soon as practicable after crop emergence.</p> <p>Use protectant sprays in early crop growth. Apply protectant sprays up to the fruit set stage of the crop if the disease normally occurs during this period. If this schedule is interrupted (e.g. by rain) use a tank mix of protectant plus systemic before recommencing the protectant programme.</p> <p>After fruit set, use systemic fungicides in one or more of the following ways:</p> <p>a) tank mix Goldazim with a protectant fungicide AND use fungicides from at least 2 different systemic activity groups per crop;</p> <p>b) alternate Goldazim with a protectant fungicide AND use fungicides from at least 2 different systemic activity groups per crop;</p> <p>c) alternate systemic fungicides (such as Goldazim) with fungicides from at least 3 different activity groups per crop.</p>
Ginger Seed Pieces	Rhizome (set) Rot (<i>Fusarium</i> spp.)	Qld only	200mL/100L water	-	<p>Cut seed pieces to desired length from Rhizomes free of rot. Submerge for 5 minutes and allow to dry before planting.</p>

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DIRECTIONS FOR USE continued:

3. Clover, Pasture, Ornamentals, Turf and Sugar Cane

Crop	Disease	State	Rate	WHP	Critical Comments
Turf	Dollar spot (<i>Sclerotinia homeocarpa</i>)	All States	60mL/ 100m ²	-	Apply sufficient water to give good coverage.. Commence application at beginning of damp weather and repeat at 4 weekly intervals.
Red Clover, Subterranean Clover	Clover Scorch (<i>Kabatiella caulivora</i>)	Vic, Tas, SA, WA only	300 to 550mL/100L water PLUS 1.5L white oil in 150L water/ha	14 days	Apply at 'closing up' of pasture in a minimum spray volume of 150L/ha. Repeat 30 days later if build up to disease is well established at closing up. Repeat with higher rate 30 days later if disease continues to develop.
	<i>Cercospora zebrina</i>)	WA only			
Roses	Powdery Mildew (<i>Oidium</i> or <i>Spaerotheca</i> spp.)	All States	25mL/100L water PLUS 1.0L oil (98-99% summer oil)	-	Begin application when disease first appears and repeat at 7 to 14 day intervals throughout the growing season. Shorten intervals during humid weather.
	Black Spot (<i>Diplocarpon rosae</i>)		50mL/100L water		
Sugarcane setts	Pineapple Disease (<i>Ceraatocystis paradoxa</i>)	Qld, NSW only	65mL/100L water	-	Apply to cut setts as a dip or spray so as to obtain thorough wetting. After dipping allow to drain. When replenishing dip, top up with 125mL Goldazim in 200L water.
Pasture	Clover Scorch (<i>Kabatiella caulivora</i>)	Vic, Tas, SA, WA only	300 or 500mL/ha plus 1L sum- mer spray- ing oil	14 days	Apply at 'closing up' of pasture in a minimum spray volume of 150L/ha. Repeat 30 days later if there is a build up of disease. Use the higher rate if disease is well established at closing up; repeat with higher rate 30 days later if disease continues to develop.
	<i>Cercospora zebrina</i>)	WA only			
Chickpeas, faba beans, lentils and vetch	Chocolate spot (<i>Botrytis fabae</i>) Grey mould (<i>Botrytis cinera</i>)	All States	500mL/ha	4 weeks (H,G)	Apply a maximum of two consecutive applications at a 14 day interval. Apply a maximum of 100L of water per hectare.

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

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WITHHOLDING PERIODS:

Stone Fruit (Spray), Grapes: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

Strawberries: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.

Apples & Pears (Spray): DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

Macadamia Nuts: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION. DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION IN TREATED PLANTATIONS FOR 4 WEEKS

AFTER APPLICATION. DO NOT CUT VEGETATION IN TREATED PLANTATIONS FOR STOCK FEED FOR 4 WEEKS AFTER APPLICATION.

Pasture (including clover): DO NOT GRAZE OR CUT FOR STOCKFEED FOR 14 DAYS AFTER APPLICATION.

Chickpeas, Faba Beans, Lentils and Vetch: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION. DO NOT GRAZE OR CUT FOR STOCKFEED FOR 4 WEEKS AFTER

APPLICATION.

Custard Apples: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

Turf: DO NOT FEED GRASS CLIPPINGS FROM TREATED AREAS TO POULTRY OR ANIMALS.

Post Harvest Dips: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS:

Fungicide Resistance Warning

GROUP	1	FUNGICIDE
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Resistance Strategy:

Goldazim is a member of the benzimidazole group of fungicides. For fungicide resistance management Goldazim is a Group 1 Fungicide. Some naturally occurring individual fungi resistant to Goldazim and other Group 1 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 fungi will not be controlled by Goldazim and other Group 1 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, Colin Campbell (Chemicals) Pty Ltd accepts no liability for any losses that may result from the failure of Goldazim to control resistant fungi.

1. General

To minimise the risk of development of fungicide resistant strains, it may be necessary to tank mix or alternate Goldazim with a registered fungicide from a different chemical group. Consult a Campbell representative or your local distributor for further information and refer to critical comments for specific instructions.

2. Postharvest

The use of Goldazim as a post-harvest dip is subject to an AFRAC anti-resistance strategy;

- a) Handle fruit carefully to minimise potential infection sites caused by injury.
- b) Ensure diseased fruit is promptly removed from the field and packing house and is destroyed.
- c) Dip fruit promptly after harvest.
- d) Do not store fruit in the packing house – move it through the packing house quickly.
- e) For the last pre-harvest spray, use a fungicide with a different mode of action to the fungicide planned for use as a post-harvest dip.
- f) Resistant strains of fungi can develop within the packing house. Where alternatives are available, rotate to use as many different modes of action as possible.
- g) Remove mouldy fruit from storage – isolate from other fruit.
- h) Do not move fruit between packing houses – especially mouldy fruit.

Mixing

Mix the required quantity of product with a small amount of water to form a slurry. Pour this slurry into the partly filled spray tank and agitate or stir. Complete filling while stirring or agitating. Ensure that the spray mixture is properly suspended before re-starting after stoppage.

When using this product as a dip, dip ingredients MUST NOT be mixed together in concentrated form. Add separately to the full volume of water in the dip tank. To restore the original volume in the dip tank, add the required volume of water and then the appropriate amounts of product/s. Dip should be replaced when dirt begins to accumulate.

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Addition of Wetting Agent

Add 20mL non-ionic wetting agent per 100 litres spray mixture to improve the distribution of the spray on hard to wet plants.

Compatibility

As formulations of other manufacturers' products are beyond the control of Colin Campbell (Chemicals) Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

Turf Nutrition

Turf with a low nutritional status may react adversely to application of Goldazim. Where possible it is recommended that a fertiliser programme be applied to turf with a low nutritional status prior to treatment with Goldazim

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 closes, original container in a dry, well-ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on-site. Break, crush, puncture, or bury empty containers in a local authority landfill. If not available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

Safety Directions

WARNING:Contains carbendazim which causes birth defects in laboratory animals.Women of childbearing age should avoid contact with carbendazim.Harmful if inhaled or swallowed.Will irritate the eyes and skin. Do not inhale vapour or spray mist. When opening container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and a half facepiece respirator. After use and before eating, drinking or smoking,wash hands, arms and face thoroughly with soap and water. After each day's use,wash gloves and contaminated clothing.

First Aid

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

Material Safety Data Sheet

For further information, refer to the Material Safety Data Sheet (MSDS 71)

CONDITIONS OF SALE

Agricultural, horticultural and pastoral preparations in their application involve varying factors such as differing conditions, soil, climate and methods of application over which the vendor does not have control, Whilst Colin Campbell (Chemicals) Pty. Ltd believes that all goods sold by it are true to label and are effective and safe for purpose indicated the company and the seller hereby expressly negate and exclude any express or implied condition, statement or warranty, statutory or otherwise, as to quality or fitness of any goods sold for any purpose or purposes whatsoever except such warranties and conditions, if any, as are implied by the Trade Practices Act 1974 (Commonwealth). The company and the seller accept no responsibility for any loss, harm or damage whatsoever suffered from the use of such goods for any purpose or purposes irrespective of whether or not the buyer was acting in reliance upon the advice recommendation or representation of the seller or any representative agent of employee of the company as to such use except in respect of breaches of conditions and warranties, if any, implied by the Trade practices Act and in respect of such breaches the liability of the company and the seller shall be limited to the replacement of the goods or the supply of equivalent goods, or the payment of the cost of replacing the goods.

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