

Product Name: HYDROCOP WG FUNGICIDE/BACTERICIDE
APVMA Approval No: 62910/140381



Label Name:	HYDROCOP WG FUNGICIDE/BACTERICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	500 g/kg COPPER (CU) PRESENT AS CUPRIC HYDROXIDE
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Mode of Action:	GROUP M1 FUNGICIDE
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Statement of Claims:	A fine dry flowable fungicide for the control of various diseases of fruits and vegetables as indicated in the Directions for Use table.
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Net Contents:	1kg-15kg
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Restraints:	<p>RESTRAINTS: DO NOT apply when temperature exceeds 35°C. DO NOT apply when slow drying conditions prevail. DO NOT apply to copper-shy crops or cultivars. DO NOT apply if it is likely to rain before the spray is dry. DO NOT apply to wet crops. DO NOT use in spray solutions with a pH of less than 6.5.</p> <p>SPRAY DRIFT RESTRAINTS Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift DO NOT allow bystanders to come into contact with the spray cloud. DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.</p>
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DO NOT apply unless the wind speed is between 3 and 15 kilometres per hour at the application site during the time of application.
DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

Directions for Use: This section contains file attachment.

Other Limitations:

Withholding Periods: ALL CROPS EXCEPT ALMONDS: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

ALMONDS: NOT REQUIRED WHEN USED AS DIRECTED

Trade Advice:

General Instructions: This section contains file attachment.

Resistance Warning: FUNGICIDE RESISTANCE WARNING

GROUP M1 FUNGICIDE

For fungicide resistance management Hydrocop WG Fungicide/Bactericide is a group M1 fungicide. Some naturally occurring individual fungi resistant to Group M1 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 Hydrocop WG Fungicide/Bactericide and other Group M1 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, Grochem Australia Pty Ltd accepts no liability for the losses that may result from the failure of Hydrocop WG Fungicide//Bactericide to control resistant fungi.

Precautions:

Protections: PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

Storage and Disposal:

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Shake and empty contents into spray tank or dip. Do not dispose of undiluted chemicals on site. Break, crush, or 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.

Spent dips: Unused or spent dips should be disposed of carefully to avoid contamination of wetlands or watercourses. Dispose of dip in an authorised dip disposal facility. If an authorised dip disposal facility is not available, the spent dip should be evenly spread over flat land not exceeding 20,000 L/ha. The disposal site must be dedicated and adequately bunded (soil at least 15 cm high). DO NOT dispose unwanted spent dip in the same place repeatedly, as repeated depositions in one location may, over time, create a contaminated site.

Safety Directions:

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.

First Aid Instructions:

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia: 13 11 26, New Zealand 0800 764 766. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

First Aid Warnings:

GENERAL INSTRUCTIONS

Hydrocop WG Fungicide/Bactericide is a protectant fungicide. Applications should begin prior to any sign of disease.

MIXING:

Fill the spray vat with good quality water. Remove top strainer from spray vat. With the agitation system operating, pour the required quantity of Hydrocop WG Fungicide/Bactericide into the spray vat in a steady stream. DO NOT attempt to pre-mix Hydrocop WG Fungicide/Bactericide in water before adding to the spray vat. If other pesticides are being used, fully mix the Hydrocop WG Fungicide/Bactericide in the spray tank before adding other products. Always add and mix the Hydrocop WG Fungicide/Bactericide first. Sprays containing Hydrocop WG Fungicide/Bactericide should be used within 3 hours of preparation and they should be agitated continuously during this period.

Application to Tree Crops

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 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 100L 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 run-off, otherwise underdosing 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 be then 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: $3 \times$ (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
4. If the dilute label rate is 150 mL/100L, then the concentrate rate becomes 3×150 , that is 450 g/100L of concentrate spray.
5. 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.

DO NOT use a concentrated factor higher than that specified in the Critical Comments and the following table.

Crop	Maximum Concentration Factor
Almonds	2 times
Deciduous fruit	2 times
Avocadoes and Mangoes	3 times
Vines	3 times
Citrus, Litchis, Walnuts	Dilute application only

For further technical 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 minimum spray volume of 250 L per hectare.

Application to Vegetables General:

Thorough coverage of the plant is essential for maximum effectiveness. To achieve thorough coverage:

1. Spray volumes need to be increased as the plant grows.
2. The configuration of the sprayer may need to be altered as the plants grow and change shape.

The coverage provided by the sprayer should be checked prior to each application and adjusted if necessary. This should only be done with water plus any required wetting agent.

Dilute Sprays:

Apply using a sprayer fitted with cone nozzles operated at pressures that produce a MEDIUM to FINE spray. The following volumes per SPRAYED HECTARE are suggested as a guide, since the required volumes will vary with foliage density and size of the plants.

Carrots, Parsnips, Potatoes, Silver beet, Spinach:

400 litres on plants up to 10 cm tall, increasing to 1000 to 1200 litres on mature plants.

Cucurbits, Lettuce:

400 litres on plants up to 10 leaves, increasing to 1000 to 1200 litres on mature plants.

Brassicas, Trellis Tomatoes:

400 litres on plants up to 10 leaves, increasing to 1000 to 1200 litres on mature plants.

Beans, Capsicum, Celery, Faba Beans, French Beans, Peas, Rhubarb, Bush Tomatoes: 400 litres on plants up to 15 cm tall, increasing to 1000 to 1200 litres on mature plants.

Olives: The sensitivity of foliage and fruit of all olive cultivars has not been fully evaluated, particularly of the high rate of copper application. It is therefore advisable, to only treat a small number of olive trees to ascertain their reaction before treating part or the whole of a grove in order to avoid host damage.

Red Beet: 400 litres on plants up to 8 leaves, increasing to 800 litres on mature plants.

Concentrate Sprays:

Hydrocop WG Fungicide/Bactericide may be applied to vegetables at lower water volumes than those specified for dilute application, provided the CONCENTRATION of Hydrocop WG Fungicide/Bactericide is INCREASED in inverse proportion to the reduction in volume from the specified dilute volume.

Example only:

If the spray volume is half the specified dilute volume, Hydrocop WG Fungicide/Bactericide should be applied at double the dilute rate. Spray volumes for concentrate sprays should not be less than 1/3 of the equivalent dilute volume. Thus spray concentration should not exceed 3 times the dilute concentration. Apply using a sprayer fitted with cone nozzles operated at pressures that produce a FINE spray. Refer to VEGETABLES: DILUTE SPRAYS for dilute volumes.

Rhubarb Dip

Dispose of the spent dip solution in a disposal pit. See Storage and Disposal for details.

Wetting Agents

The addition of a wetting agent is required when Hydrocop WG Fungicide/Bactericide is being applied to BRASSICAS, FABA BEANS, PEAS, and ONION, irrespective of the method of application. The addition of a wetting agent is also required when Hydrocop WG Fungicide/Bactericide is applied as a concentrate spray or by aircraft. Add a Wetting Agent at label rates when suitable for these purposes, irrespective of the spray volume applied. Where a Wetting Agent is not required for Hydrocop WG Fungicide/Bactericide, one may be added if required for other pesticides.

Application by Aircraft

Apply in a minimum of 20 litres of water per hectare. May be applied with hydraulic nozzles or rotary atomisers operated to produce fine droplets. Avoid application in calm or very windy conditions or when temperature and humidity cause rapid drying. To ensure good spray coverage, applications should ideally be made in a light crosswind.

Compatibility

Hydrocop WG Fungicide/Bactericide is compatible with most insecticides/ pyrethroids, dormant spraying oils, Manzate, Mancozeb, Ziram, Wettable Sulphur and Urea. Mixtures with more than one of the above products is not recommended.

Such mixtures may be ineffective or may cause serious damage. Hydrocop WG Fungicide/Bactericide may NOT be compatible with some foliar fertilisers and a test should be conducted before use. Always add Hydrocop WG Fungicide/Bactericide to the spray solution and dissolve before other products are added.

DIRECTIONS FOR USE

All rates for tree and vine crops are for dilute spraying. For concentrate spraying rates, refer to the Mixing/ Application section. If using concentrate application, apply the same amount of product to the target crop.

Tree/Vine Crop	Disease	State	Dilute/Spraying Rate	Critical Comments
Almonds	Shothole (<i>Stigmina carpophila</i>)	All States	105 g/100L	1. Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING 2. Commence post-flowering applications 5-7 days after petal fall is complete, and apply at 10-14 day intervals as the season dictates, to a maximum of 4 applications. Apply as a dilute or concentrated spray. DO NOT use a concentration greater than 2. DO NOT apply more than one application past shuck fall.
	Leaf Curl (<i>Taphrina deformans</i>)			CORRECT TIMING IS CRITICAL FOR EFFECTIVE CONTROL. Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2. For a given variety, the time of bud opening will vary from year to year, depending on the weather and in any year it will vary between varieties. Thus, the bud development of each variety in the orchard should be monitored each year to determine the correct time of application. Blocks containing more than 1 variety may not be treated more than once, to treat each variety at the correct time. Where leaf curl is, or is likely to be a severe problem, based on previous experience, the following program should be followed. 1. AUTUMN – apply at leaf fall. 2. Apply at the FIRST SIGN OF BUD SWELL and REPEAT ONE WEEK LATER PRIOR TO SIGNS OF BUD OPENING. DO NOT apply more than one application past shuck fall.
Apples	Black Spot, Scab (<i>Venturia inaequalis</i>)			Apply at green tip. NOTE: Crop injury (russetting) may occur from late application. Discontinue use when green tip on the earliest developing buds reaches 1 cm. Before applying to recently introduced varieties, ascertain their tolerance of copper sprays from relevant authorities. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
Avocados	Anthraxnose (<i>Glomerella cingulata var. minor</i>)			Spray every 4 weeks from the end of flowering to harvest. During extended wet weather, spray every 14 days. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 3.
Apricots	Shothole (<i>Stigmina carpophila</i>), Freckle (<i>Venturia carpophila</i>)			Apply at bud swell but before the earliest sign of leaf bud development. Apply at least 1 post harvest spray. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
	Bacterial gummosis (<i>Pseudomonas syringae</i>)	Vic, Tas, SA and WA Only	135 g/100L	Autumn: Apply at 25 to 50% leaf fall. Apply again at 90 to 100% fall. Winter: Apply in mid winter. Spring: Apply at first sign of bud movement. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
		NSW only	105 g/100L	
	NSW, Vic, Tas, SA, and WA only		70 g/ 100L	Apply 1 week after petal fall. Repeat application 7 to 10 days later. These sprays control the leaf population of bacteria in mid to late spring. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.

Tree/Vine Crop	Disease	State	Dilute/Spraying Rate	Critical Comments
Bananas	Cercospora leaf spot (<i>Cercospora musae</i>)	Qld, NSW and WA only	105 g/100L + 600 mL Polyphase or Miscible Summer oil	Apply at 3 to 4 weekly intervals from December to May when weather conditions favour disease development.
Cherries	Shothole (<i>Stigmina carpophila</i>)	All States	105 g/100L	Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
	Bacterial gummosis (<i>Pseudomonas syringae</i>)	Vic, Tas, SA and WA only	135 g/100L	Autumn: Apply at 25 to 50% leaf fall. Apply again at 90 to 100% fall. Winter: Apply in mid winter.
		NSW only	105 g/100L	Spring: Apply at first sign of bud movement. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
		NSW, Vic, Tas, SA, and WA only	70 g/ 100L	Apply 1 week after petal fall. Repeat application 7 to 10 days later. These sprays control the leaf population of bacteria in mid to late spring. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
Citrus	Black Spot, Melanose, Smoky Blotch (<i>Gloeodes pomigena</i>), Scab (lemons) (<i>Elsinoe fawcettii</i>)	All States	105 to 160 g/100L + 600 mL Polyphase or Miscible Summer oil	Apply at petal fall. Use higher rates in coastal districts. Apply as a dilute application only.
Litchis	Parasitic algae (<i>Cephaleuros virescens</i>)	Qld and NSW only	210 g/100L + a suitable wetting agent	Apply at affected trunks and limbs until runoff occurs. Apply monthly during the wet season. Apply as a dilute application only.
Macadamias	Husk Spot (<i>Pseudocercospora macadamiae</i>)	Qld, NT, NSW only	105 g/100L	Good spray penetration of foliage is essential. Apply from nut set (late September) to December. Apply at least 3 sprays at 3-4 week intervals.
	Anthraxnose (<i>Colletotrichum spp.</i>)			Good coverage inside the tree is essential. Spray from early summer (December) to May at monthly intervals.
	Pink limb blight (<i>Corticium salmonicolor</i>)			Good coverage of infected limbs from early summer (December) to May at monthly intervals.
Mangoes	Anthraxnose (<i>Glomerella sp.</i>) (<i>Glomerella cingulata var. minor</i>)	NSW, Qld, SA, WA, NT only	160 g/100L	Spray over 4 weeks from the end of flowering to harvest. During extended wet weather, spray every 14 days. Use in rotation with alternate chemistry. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 3.
	Bacterial black spot (<i>Xanthomonas campestris pv. mangiferaeindicae</i>)		105 to 160g/100L	Apply as a preventive spray. Repeat at 10–14 day intervals while weather conditions favour disease development. Use higher rate when conditions are highly favourable for infection. Use in rotation with alternate chemistry. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 3.

Tree/Vine Crop	Disease	State	Dilute/Spraying Rate	Critical Comments
Nectarines and Peaches	Shothole (<i>Stigmina carpophila</i>)	All States	105 g/100L	Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
	Leaf curl (<i>Taphrina deformans</i>)			CORRECT TIMING IS CRITICAL FOR EFFECTIVE CONTROL. Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2. For a given variety, the time of bud opening will vary from year to year, depending on the weather and in any year it will vary between varieties. Thus, the bud development of each variety in the orchard should be monitored each year to determine the correct time of application. Blocks containing more than 1 variety may not be treated more than once, to treat each variety at the correct time. Where leaf curl is, or is likely to be a severe problem, based on previous experience, the following program should be followed. AUTUMN – apply at leaf fall. Apply at the FIRST SIGN of BUD SWELL and REPEAT ONE WEEK LATER PRIOR TO SIGNS OF BUD OPENING.
Olives	Various fungal leaf spots including Peacock Spot (<i>Spiloea oleaginea</i>) And various fruit rots, including Anthracnose (<i>Colletotrichum spp.</i>)	All States	175 – 240 g/100L	Best applied prior to the onset of conditions conducive to disease (i.e. warm, humid, wet weather). Lower rates should be effective for disease management. For groves in coastal areas, or groves with a history of fungal disease, or if the season is more conducive to fungal activity the higher rate would be more appropriate. Regular sprayings should be considered to protect the quality of fruit on the trees.
Pears	Black Spot (scab) (<i>Venturia pirina</i>)	All States	105 g/100L	Apply at green tip. NOTE: Crop injury (russetting) may occur from late application. Discontinue use when green tip on the earliest developing buds reaches 1 cm. Before applying to recently introduced varieties, ascertain their tolerance of copper sprays from relevant authorities. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
Plums	Shothole (<i>Stigmina carpophila</i>)			Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Apply as a dilute or concentrated spray. DO NOT use a concentration factor greater than 2.
Vines	Downy Mildew (<i>Plasmopara viticola</i>)			95 to 135 g/100L
Walnuts	Walnut blight (<i>Xanthomonas campestris pv. juglans</i>)		160 g/100L + 175 mL Polyphase or Miscible Summer Oil	Apply a minimum of three sprays at 7 to 10 day intervals, commencing when the catkins are partially opened. Further application may be necessary if conditions allow infection. Apply as a dilute application only.

Avocados, Citrus, Kiwi- fruit, Litchi, Nectarines, Passionfruit, Plums, Peaches, Pecans, Tropical Fruit	Phytophthora stem canker	Qld and NSW only	55 g/1L or 55 g/1L of water based paint	Mix to a smooth consistency. Apply only to stems of trees or vines wherever cankers appear, after removing dead tissues. Repeat applications up to a maximum of 5 per season until natural healing is commenced. Application with paint carrier may only require 1 or 2 treatments in a season.
Bananas	Phytophthora stem canker	NSW only	55 g/1L or 55 g/1L of water based paint	Mix to a smooth consistency. Apply only to stems of trees or vines wherever cankers appear, after removing dead tissues. Repeat applications up to a maximum of 5 per season until natural healing is commenced. Application with paint carrier may only require 1 or 2 treatments in a season.
Macadamias		Qld only		

Vegetables	Disease	State	Dilute/Spraying Rate	Critical Comments
Beans	Common blight (<i>Xanthomonas campestris</i> pv. <i>phaseoli</i>)	All States	105 g/100L or 1.20 kg/ha	Apply as a preventive spray when conditions favour disease development. Repeat at 10–14 day intervals while conditions favour infection.
	Halo blight (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>)		105 to 160 g/100L or 1.20 to 1.35 kg/ha	Apply at 10 to 14 day intervals from the time the crop is 15 cm to 30 cm high, while conditions favour infection. Use the higher rate when conditions are highly favourable for infection.
	Bacterial brown spot (<i>Pseudomonas syringae</i> pv. <i>syringae</i>)		105 g/100L or 1.20 kg/ha	Apply the first spray within 3 weeks after emergence and repeat every 10 to 14 days while conditions favour infection.
Beans, Faba beans	Rust (<i>Uromyces</i> spp.)			Apply as a preventive spray when conditions favour disease development. Repeat at 10–14 day intervals while conditions favour infection.
	Chocolate spot (<i>Botrytis</i> spp.)			
Brassicas	Black rot (<i>Xanthomonas campestris</i>), Peppery leaf spot (<i>Pseudomonas syringae</i> pv. <i>maculicola</i>), Ring spot (<i>Mycosphaerella brassicicola</i>), Downy Mildew (<i>Peronospora parasitica</i>)			Apply as a preventive spray when conditions favour disease development. Repeat at 10–14 day intervals while conditions favour infection. CROP DAMAGE WARNING: Cupric hydroxide predisposes cabbages to frost damage. Cabbages should not be treated with the product if frosts are likely, since crop damage may occur.
Capsicum	Bacterial spot (<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i>), Bacterial canker			SEED BEDS: Apply every 7 days during wet weather. FIELD CROPS: Apply at the first sign of disease and or repeat at 7 to 14 day intervals while conditions favour infection. Use the shortest interval when conditions are highly favourable for infection. These applications will reduce the spread of bacterial canker but they will not control seed or soil-borne infection.
Carrots	Leaf spot (<i>Alternaria</i> , <i>Cercospora</i> , <i>Septoria</i>)		105 g/100L	Apply as a preventive spray when conditions favour disease development. Repeat at 10–14 day intervals while conditions favour infection.
Celery	Leaf spot (<i>Septoria apicola</i>), Bacterial soft rot (<i>Erwinia carotovora</i> pv. <i>carotovora</i>)		105 to 150 g/100L	Apply every 7 to 14 days while conditions favour infection. Use the shortest interval when conditions are highly favourable for infection i.e. cool and wet.
Cucurbitis	Angular leaf spot (<i>Pseudomonas syringae</i> pv. <i>lachrymans</i>), Bacterial leaf spot (<i>Xanthomonas campestris</i> pv. <i>Cucurbitae</i>)		105 g/100L	Apply when conditions favour disease development and repeat at 10–14 day intervals while conditions favour infection.

Vegetables	Disease	State	Dilute/Spraying Rate	Critical Comments
Lettuce	Downy Mildew (<i>Bremia lactucae</i>), Bacterial leaf spot (<i>Xanthomonas campestris pv. vitians</i>), Anthracnose (<i>Marssonina panattoniana</i>)	All States	105 g/100L or 1.20 kg/ha	Apply when conditions favour disease development and repeat at 7–10 day intervals while conditions favour infection. Alternation with mancozeb is desirable. CROP DAMAGE WARNING: Cupric hydroxide predisposes lettuce to frost damage. Lettuce should not be treated with the product if frosts are likely, since crop damage may occur.
Onions	Downy Mildew (<i>Peronospora destructor</i>)			Apply when conditions favour disease development and repeat every 10–14 days while conditions favour infection.
Parsnips	Leaf spot (<i>Septoria spp.</i>)	Vic, SA and WA only		Apply when conditions favour disease development and repeat every 10–14 days while conditions favour infection.
Peas	Ascochyta blight (<i>Ascochyta spp.</i>), Bacterial blight	All States		Apply when conditions favour disease development and repeat every 10–14 days while conditions favour infection.
Potatoes	Target spot/ Early blight (<i>Alternaria solani</i>), Irish blight/ Late blight (<i>Phytophthora infestans</i>)			Apply from crop emergence to maturity at 7 to 10 day interval, while conditions favour infection. May reduce yield if applied under dry conditions.
Red Beet	Downy mildew (<i>Peronospora farinosa</i>), Rust (<i>Uromyces betae</i>)			Apply at 10 to 14 day intervals, from the seedling stage until maturity, while conditions favour infection.
Rhubarb	Crown rot (<i>Phytophthora spp.</i>)		105 g/100L	Dip rhubarb crowns before planting.
	Downy mildew (<i>Peronospora jaapiana</i>)		105 g/100L or 1.20 kg/ha	Apply at 14 day intervals while conditions favour infection.
Silver beet, Spinach	Downy mildew (<i>Peronospora farinosa</i>)			Apply at 10 to 14 day intervals, from the seedling stage until maturity, while conditions favour infection.
Tomatoes	Bacterial spot, Bacterial speck (<i>Pseudomonas syringae pv. tomato</i>), Bacterial canker		80 to 105 g/100L or 0.90 to 1.20 kg/ha	Apply when conditions favour disease development and repeat at 10 to 14 day intervals while conditions favour infection. The shortest interval should be used when conditions are highly favourable for infection i.e. during wet weather and when inoculum levels are high. These applications will reduce the spread of bacterial canker but they will not control seed or soil-borne infection.
	Target spot/ Early blight (<i>Alternaria solani</i>), Septoria leaf spot		105 g/100L or 1.20 kg/ha	Apply when conditions favour disease development and repeat at 10 to 14 day intervals while conditions favour infection. The shortest interval should be used when conditions are highly favourable for infection i.e. during wet weather and when inoculum levels are high.

Vegetables	Disease	State	Dilute/Spraying Rate	Critical Comments
Tomatoes	Irish blight/ Late blight	All States	105 g/100L or 1.20 kg/ha	Apply when conditions favour disease development and repeat at 10 to 14 day intervals while conditions favour infection. The shortest interval should be used when conditions are highly favourable for infection i.e. during wet weather and when inoculum levels are high. Minimise use on seedlings to avoid retarding growth.
Tobacco seed beds	Wildfire, Angular leaf spot (<i>Pseudomonas syringae pv. tabaci</i>)	Qld, NSW, and Vic only	210 g/100L	Apply every 7 days.
	Algae	Qld only		Apply when algae first appears.
Ornamentals	Bacterial leaf spot	All States	105 g/100L	Apply when conditions favour disease development and repeat at 10 to 14 day intervals while conditions favour infection. This product is ineffective against bacterial wilt of carnations caused by <i>Pseudomonas andropogonis</i> . Phytotoxicity is known to occur on certain varieties of ornamentals. Small scale evaluations consisting of 2 sprays at 14 day interval should be applied first to test phytotoxicity.

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