DIRECTIONS FOR		iono (2500) as for-	to oro likolu to	aur as demage and result	CROP	DISEASE	STATE	RATE/100L	CRITICAL COMMENTS	CROP	DISEASE	STATE	RATE/100L	CRITICAL COMMENTS	
D( D(	STRAINTS: D0 NOT apply this product when hot conditions (35°C) or frosts are likely to occur as damage can result. D0 NOT apply to copper shy varieties. D0 NOT apply to wet foliage. D0 NOT use this product during poor drying conditions.					Black Spot ( <i>Xanthomas campestris</i> ), Peppery Leaf Spot ( <i>Pseudomonas syringae pv. Maculicola</i> ), Ring Spot	All States	250g (2.5kg/ha)	Spray at first sign of disease and repeat at 10 to 14 day intervals when conditions favour disease. Cabbages: This product must not be applied to cabbages when frosts	Ornamentals (Flowers & Shrubs)	Fungal Leaf Spots, Downy Mildew	All States	300g (3kg/ha)	Apply when disease first appears. Repeat at 7-14 day intervals as required. Small scale phytotoxicity tests are recommended as some varieties may be sensitive under certain conditions.	
CROP		STATE	RATE/100L	CRITICAL COMMENTS		(Mycosphaerella brassicicola), Downy Mildew (Peronaspora parasitica) Bacterial Spot	All States	250g	Seed-beds: Apply every 7 days during wet weather.	Passionfruit	Brown Spot (Alternaria passiflorae)		200g (2kg/ha) 300-400g (3-4kg/ha)	Apply every 2 weeks (4 in NSW) from October to May and 3-4 weeks (2 months in NSW) during winter.	
Apricots	Shothole ( <i>Stigmina carpophila</i> ), Freckle ( <i>Venturia carpophila</i> )	All States	250g (3kg/ha)	Apply at bud swell but before the earliest sign of leaf bud development. Apply a minimum of 1 post-harvest spray.	Capsicums						Septoria Spot (Septoria passiflorae)				
Cherries, Peaches, Vectarines,	Shothole (Stigmina carpophila)	(Stigmina carpophila) All States	Apply when buds are swelling BUT BEFORE AND WITHIN ONE WEEK OF BUD OPENING.		(Xanthomas vesicatoria) Bacterial canker	QId, NSW, Tas	(2.5kg/ha)	Field-crops: Apply at the first sign of disease and repeat at 7 to 14 day intervals.		Phytophthora Blight (Phsytophthora nicotianae)	Qld, NSW only	100g/L	Mix to smooth consistency. Apply to infected area after removing dea tissue. Repeat frequently until healing commences.		
lums	-	Qld, Vic, Tas,	, Vic, Tas,			(Corynebacterium michiganense)	SA, WA only		Use the shortest interval when conditions favour infection. These applications will reduce the spread of bacteria canker but will not control seed or soil-borne infection.	Parsnips	Leaf Spot ( <i>Septoria</i> spp.)	SA, Vic, WA only	250g (2.5kg/ha)	Apply when disease first appears and repeat at 10-14 day intervals while conditions favour infection.	
Apricots,	Bacterial gummosis (	SA, WA only Qld, Vic, Tas,	250g	Autumn: Apply at 25-50% leaf fall and again at 90-100% leaf fall.	Carrots	Leaf Spot (Alternaria carcaspora)	All States	250g (2.5kg/ha)	Apply when disease first appears. Repeat at 7-14 day intervals whilst conditions favour infection.	Peas	Ascochyta Blight ( <i>Ascochyta</i> spp.), Bacterial Blight ( <i>Pseudomonas</i>	All States	250g (2.5kg/ha)	Apply when disease first appears and repeat at 10-14 day intervals.	
Cherries		SA, WA only NSW, Vic, Tas,	150g	Spring: Apply at first sign of bud movement and repeat application 7-10 days later. Apply 1 week after petal fall and repeat application 7-10 days later.	Celery	Leaf Spot (Seporia apiicola)	All States	250g	Apply when disease first appears. Repeat at 7-14 day intervals. Use shorter interval when conditions favour infection.	Potatoes	syringae pv. syringae)	All Obstan	000.050-/1001		
						Early Blight (Cercospora apii)	NSW, Vic, SA, WA, NT only	(2.5kg/ha)			Target Spot ( <i>Alternaria solani</i> ), Irish Blight ( <i>Phytophthora infecions</i> )	All States	220-250g/100L (2.5 kg/ha)	Apply from crop emergence to crop maturity at 7-14 day intervals. Use the higher rate when conditions are particularly favourable to disease development.	
		SA, WA only	Toby		Citrus	Black Spot ( <i>Phoma citricarpa</i> ), Melanose ( <i>Phoma citri</i> )	NSW, SA, Vic, WA only	175g plus Summer Oil	Apply at 50-75% petal fall. Use higher rate in coastal districts. <b>Caution:</b> D0 NOT use on copper shy varieties.	Red Beet	Downy Mildew (Peronospora fasinosa), Rust (Uromyces betae)	All States	250g (2.5kg/ha)	Apply at 10 to 14 day intervals, from seedling stage until maturity, while conditions allow infection.	
lectarines, reaches Imonds	(Taphrina deformans)	All States Qld, Vic, Tas,	250g (3kg/ha)	Apply when buds are swelling but BEFORE AND WITHIN ONE WEEK OF BUD OPENING. Note:		Black Spot ( <i>Phoma citricarpa</i> ), Melanose ( <i>Phoma citri</i> ), Smoky Blotch ( <i>Gloeodes pomigena</i> ), Scab (lemons) ( <i>Elsinoe</i> fawcitri)	Qld, NT only	ly 200-300g plus 600mL Summer Oil		Rhubarb	Crown Rot ( <i>Phytophthora</i> spp.), Downy Mildew ( <i>Peronospora jacpiana</i> )	All States	250g (2.5kg/ha)	Apply at 14 day intervals while conditions allow infection.	
		SA, WA only		Time of bud opening varies on varietal difference and seasonal conditions.     Monitoring bud movement is therefore essential so as to identify precise/correct timing of application.     Biocks containing more than 1 variety should be treated more than once and in line with correct timings for each variety.     For leaf curl spray times are: Autumn - apply at leaf fall Spring - first sign of bud swell and repeat 7 days later.     CORRECT TIMIMG IS CRITICAL FOR EFFECTIVE CONTROL.	Cucurbits i.e. Rockmelon,	Angular Leaf Spot (Psuedomonas	All States	250g (2.5kg/ha) 250g (3kg/ha)	Apply when disease first appears and repeat at 10 to 14 day intervals whilst conditions favour infections.	Silver beet, Spinach	Downy Mildew (Peronospora fasinosa)	All States	250g (2.5kg/ha)	Apply at 10 to 14 day intervals, from the seedling stage until maturit while conditions allow infection.	
					Watermelon Cucumber	Bacterial Leaf Spot (Xanthomonas				Stone Fruit	Blossom Blight, Freckle, Rust	NSW, Vic, Tas, SA, WA only	400g	Apply from late budswell to early blossom.	
						campestris pv. cucurbitae)					Leaf Curl, Shot Hole	NSW, Vic, Tas, SA, WA only	400 g	Apply at early budswell. Additional sprays in autumn when leaves begin to fall will improve control.	
					Guavas	Anthracnose (Collectrichum psidii), Algal Leaf Spot (Cephaleuros virescens)				Apricots	Bacterial Spot, Bacterial Canker, Leaf Curl, Shot Hole	Qld only Qld only	750g 500 g	Apply at early bud movement, 7-10 days later (pink stage in apricots and on plums only, at blossoming.	
pples	Black spot (scab) (Venturia inequalis)	All States	250g (3kg/ha) & winter oil	Spray at green tip and spur burst (where necessary). Repeat 10-14 days later if conditions favour infection. i.e., extended wet weather. Consult Department of Agriculture spray charts for specific recommendations on timing, rates and precautions that may be necessary. D0 NOT use on Copper shy varieties.	Lettuce	Downy Mildew ( <i>Bremia lactucae</i> ), Bacterial Leaf Spot ( <i>Xanthomas</i> <i>campestris pv. vitians</i> )	All States	(2.5kg/ha) a	Spray thoroughly at first sign of disease and repeat every 7-10 days as necessary. Alternate with Mancozeb.	Tobacco seed beds	Wildfire, Angular Leaf Spot (Pseudomanas syringae pv. tabaci)	Qld, NSW, Vic only	400g/100L	Apply every 7 days from the seedling stage, when weather condition favour disease development.	
Pears	Black Spot (scab) ( <i>Venturia pirina</i> ) Anthracnose NSW. Old. SA										Algae	Qld only	1	Apply when algae first appears.	
Avocados		NSW. Qld. SA.				Anthracnose (Marssonina panationiana)	NSW, Vic, Tas, SA, WA only		Caution: DO NOT apply if frosts are expected. Apply on 7-10 day schedule.	Tomatoes	Bacterial Spot (Xanthomonas campestris pv. vesicatoria)	nato)		Commence spray applications at first sign of disease and repeat ever 7 to 10 days depending on weather conditions and severity of disease	
Avocauos	Glomerella congulata var. minor)		2009 (0Kg/11a)	weather reduce intervals to 14 days. When using low water volume sprayers do not use less than 300L/Ha.	Litchi	Parasitic Algae (Cephaleuros viriscens)	Qld, NSW only	400g plus 20mL of a	Apply to affected trunk and limbs until run-off occurs. Apply monthly during the wet season.		Bacterial Speck ( <i>Pseudomanas syringae pv. tomato</i> )			Apply each 7 to 14 days depending on weather conditions and severity of disease.	
Bananas	Cercospora Leaf Spot (Cercospora musae)	NSW, Qld, WA only	Summer Oil or	Apply at 3-4 week intervals commencing December to May when weather conditions favour disease outbreak. Use sufficient water to				100% wetting agent (4kg/ha)			Bacterial Canker (Corynebacterium michiganense pv. michiganense	All States	220-250g/100L (2.5kg/ha)	This product will reduce the spread of bacterial canker but will not control seed or soil-borne infections.	
Beans	Common Blight	SA, Tas, Vic,	(3Kg/ha) 250g	ensure thorough coverage. Apply at first signs of infection or as a preventative spray. Repeat at	Macadamias	Husk Spot (Cercoseptoria spp.)	Old, NSW, NT only	250g (3kg/ha)	(late September) to December. Apply at least 3 sprays at 3-4 week intervals.		Target Spot/Early Blight (Alternaria solani)	_		Seedbeds: Apply each 7 days under wet weather conditions. Minimize use on seedlings to avoid retardation of growth.	
		WA only	(2.5kg/ha)	10 to 14 day intervals as necessary.							Septoria Leaf Spot (Septoria spp.)			Use the higher rate when conditions are particularly favourable to disease development.	
	Bacterial Brown Spot ( <i>Pseudomonas syringae pv. syringae</i> )	All States	250g (2.5kg/ha)	Apply the first spray within three weeks of emergence and repeat every 10 to 14 days.		Anthracnose Husk Rot ( <i>Collectrichicum</i> spp.)			Good coverage inside the tree is essential. Spray from early summer (December) to May at monthly intervals.		Irish Blight/Late Blight (Phytophthora infestans)				
	Halo Blight ( <i>Pseydomonas syringae</i> <i>pv. phaseolicola</i> )	SA, Tas, Vic, WA only	250g (2.5kg/ha) 250-300g	Apply at the first sign of disease or as a preventative spray. Repeat at 10 to 14 days. Apply at 10 to 14 day intervals from the time the crop is 15cm to	Mangoes	Pink Limb Blight (Corticum salmonicoler)	Qld, NSW, WA	250a (2ka/ba)	Good coverage of infected limbs is essential. Spray from early summer (December) to May at monthly intervals.	Vines	Downy Mildew (Plasmopara viticola)	Tas, SA, WA	250g (2.5kg/ha)	First apply when shoots are 10 cm long. Repeat at 10-14 day intervals. Use shorter interval when conditions favour infection.	
	Rust ( <i>Uromyces</i> spp.),	Qld, NSW, NT only Vic, SA, WA	y (2.5-3kg/ha) 30cm high. Use higher dose when conditions favour infection.	wangues	Bacterial Black Spot	only	250g (3kg/ha)	Ensure good coverage. Apply every 4 weeks from early flowering to fruit set. DO NOT apply from a misting machine as coverage may not be adequate.	Walnuts	Walnut Blight (Zanthomonas	only All States	300g/100L plus 175mL	Apply at least three sprays at 7-10 day intervals. Commence application when the calkins are partially opened. Further application		
	Chocolate Spot (Botrytis spp.)	only	(2.5kg/ha)	necessary.	Onions	Downy Mildew (Peronaspora destructor)	All States	250g (2.5kg/ha)	Apply when disease first appears and repeat at 10 day intervals.		campestriss pv. juglans)		Summer Oil or (3kg/ha)		
Beans Faba Beans	Rust ( <i>Uromyces</i> spp.) Chocolate Spot ( <i>Botrytis</i> spp.)	All States Qld, NSW, Tas, SA, WA only	250g (2.5kg/ha)	Apply at the first sign of disease and repeat at 10 to 14 day intervals while conditions allow infection.						LEGISLATION.	BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE				

# BARMAC COPPER OXYCHLORIDE FUNGICIDE

## GENERAL INSTRUCTIONS

#### MIXING

Mix the required amount of product with a small volume of water then add to the spray tank under agitation. Product can be added to full volume of water if necessary. If the product is to be used in a mixture with an emulsifiable concentrate add the product after making the emulsion. DO NOT mix with alkaline materials such as lime sulphur.

### APPLICATION

High volume Dilute Spray: This product may be applied as a high volume dilute spray to fruit tree crops and some row crops. The spray volume will vary according to the treated crop and should be increased when spraying large or dense plants to ensure thorough coverage. The spray volume should also be increased throughout the growing season as the crop increases in size. Suitable spray volumes for mature crops are as follows:

Bananas, Tobacco, Vines and other row crops - 200 to 1100L/ha.

Pome and stone fruit - 1100 to 4000L/ha.

Citrus - 4000 to 8000L/ha.

Concentrate and Ground Application Sprays: This product may be applied as a concentrate spray through low volume air blast equipment or as a ground application through spray booms. Adjust the rate to ensure that the correct amount is applied per hectare from the particular equipment used. Use the higher rate on larger plants and when weather conditions favour the development of disease.

#### COMPATIBILITY

This product is compatible with a wide range of other fungicides and insecticides. The labels of these other products should be consulted prior to mixing. DO NOT mix with alkaline materials such as lime sulphur.

#### PROTECTION OF LIVESTOCK

DO NOT feed grass clippings from treated areas to poultry or other animals.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

D0 N0T contaminate streams, rivers or waterways with the chemical or used containers.

#### FUNGICIDE RESISTANCE WARNING

For fungicide resistance management Barmac Copper Oxychloride Fungicide is a Group Y Fungicide. Some naturally occurring individual



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fungi dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Barmac Copper Oxychloride Fungicide and 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 BARMAC (a division of Amgrow Australia Pty Ltd) accepts no liability for any losses that may result from the failure of Barmac Copper Oxychloride Fungicide to control resistant fungi.

#### STORAGE AND DISPOSAL

Store in the closed, original container in a well ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Single rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty containers in a local landfill. If not available, bury the containers at a depth of 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers or product should not be burned.

#### SAFETY DIRECTIONS

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

#### FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126.

#### SAFETY DATA SHEET

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

CONDITIONS OF SALE: The use of Barmac Copper Oxychloride Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by BARMAC (a division of Amgrow Australia Ptv Ltd) regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and BARMAC accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: Harmful if swallowed. Wash contacted areas thoroughly after handling. Wash with plenty of soap and water. Do not eat, drink or smoke when using this product, Avoid release to the environment. Use personal protective equipment as required. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Not combustible. Use extinguishing media suited to burning materials.

APVMA Approval No.: 41095/0800