



DANGER

Keep out of reach of children

GROCAP[®]

A fungicide for the control of certain fungal diseases of fruit, vegetables, ornamentals, turf, greenhouse crops and for certain soil borne diseases.

ACTIVE INGREDIENT: contains 900 g/kg captan in the form of a water dispersible granule.

GSGC149/F03



Grosafe[®]

GROCAP®



HAZARD CLASSIFICATIONS: Serious eye damage Category 1, Skin sensitisation Category 1, Carcinogenicity Category 2, Hazardous to the aquatic environment acute Category 1.

DANGER: Causes serious eye damage.

WARNING: Mild skin irritant. May cause an allergic skin reaction. Suspected of causing cancer.

QUALIFIED HANDLER: This product must be under the control of a qualified handler if applied in a wide dispersive manner or used by a commercial contractor.

ECOTOXIC: Very toxic to aquatic life. Do not apply into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

PERSONAL PROTECTION: Avoid eye and skin contact, and inhalation of dust, spray mist or aerosols. When mixing or applying wear eye protection, appropriate respiratory protection, and impervious elbow length gloves, cotton overalls buttoned to the neck and wrist and boots. Do not eat, drink or smoke when using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

HANDLING PRECAUTIONS: Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

TRANSPORT: Do not carry GroCap® on a passenger service vehicle

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals, must be kept if using 3kg or more of GroCap® within 24 hours.

STORAGE: Store product in original container, tightly closed, in a cool, dry place. Keep out of reach of children, and away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100 kg of product require an emergency response plan.

SPILLS: Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills, absorb with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of any waste safely in an approved landfill.

PRODUCT DISPOSAL: If possible, dispose of by using according to the label, otherwise dispose of in an approved landfill. Avoid contamination of any water supply with product or empty container.

CONTAINER DISPOSAL: Ensure packaging is completely empty. Recycle container via Agrecovery (www.agrecovery.co.nz) or at an approved landfill.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: For advice, or if exposed or concerned, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor. IF SWALLOWED do NOT induce vomiting. Rinse mouth. IF ON SKIN OR HAIR, remove contaminated clothing and flush skin and hair with running water. Then wash with soap and water. If irritation or rash occurs, get medical attention. Wash contaminated clothing before reuse. IF IN EYES hold eyelids apart and flush the eye continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor for advice.

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

GENERAL INFORMATION:

Resistance Management: GroCap® contains a **GROUP M4 FUNGICIDE** belonging to the phthalimide group of chemistry. Resistance to this fungicide could develop from excessive use. To minimise this risk use strictly in accordance with label instructions and resistance management strategies (www.resistance.nzpps.org) that exist for any disease listed on this label. Maintain good agricultural practice.

Equipment: Apply using equipment that is well maintained and accurately calibrated to achieve the desired application rate and full of coverage of foliage. Fine droplets are more effective than coarse droplets. Ensure the underside of plants are treated.

Mixing: Partially fill the spray tank with water and while filling, wash the correct amount of GroCap® through the 'filler screen' of the spray tank. Keep agitated during use. After stopping, agitate thoroughly before recommencing spraying.

Compatibility: GroCap® is compatible with most commonly used pesticides. It should not be mixed with Bordeaux mixture, lime sulphur, or oils. Use with emulsifiable concentrates is not recommended. If used in combination with sulphur on Kidds Orange, Delicious and some sulphur-shy varieties, some leaf spotting and drop may occur.

DIRECTIONS FOR USE:

It is an offence to use this product on animals.

The rates suggested are for high volume spraying to run-off. For concentrate spraying, adjust dilution rate accordingly. Use the higher rates and/or shorter spray intervals when disease pressure is high.

FRUIT CROPS

Crop	Disease	Rate	Comments
Apples, Pears	Black spot, Bull's eye rot, Glomerella, Sooty blotch	65 - 110g/100 litres water	For black spot apply the high rate every 7 days from green tip through to petal fall. From petal fall through to harvest use the low rate at 10 -14 day intervals. Where bull's eye rot, glomerella or sooty blotch are a problem use the high rate from January to harvest. Captan products may increase the risk of russet on some varieties. Where this is of concern use alternative materials between full bloom and second cover. DO NOT APPLY TO ANJOU PEARS.
	European canker	110g/100 litres water	Apply at 10 -14 day intervals prior to and during harvest when weather conditions favour spread of disease. Observe PHI at all times.
Blueberries	Stem blight, Leaf spot, Botrytis	110g/100 litres water	Spray just before flowering; at 10% flowers open; at petal fall and every 10 -14 days until harvest.
Boysenberries Loganberries Other Brambles	Cane spot	110g/100 litres water	Apply at petal fall and repeat every 10-14 days until harvest.
Citrus	Brown Rot	110 - 215g/100 litres water or 110g/100 litres water	As a skirt spray before winter rains. Thoroughly wet trees to a height of 1 metre. Repeat 10 weeks later. Spray entire tree in autumn and repeat 4-6 weeks later. Do not use oil products within 14 days either side of GroCap®.
Red and Black Currants	Leaf spot, Botrytis	110g/100 litres water	Apply every 10 -14 days from green tip until harvest.
Gooseberries	Leaf spot, Botrytis	110g/100 litres water	Apply just before flowering, again at petal fall; preharvest and postharvest. For botrytis flower rot, applications at 5-7 day intervals over flowering may be necessary depending on the weather.
Grapes	Botrytis, Dead arm, Anthracnose	110g/100 litres water	Apply every 14 days, commencing when shoots are 5-8 cm long.
	Downy mildew	80g/100 litres water	Apply at the start of flowering at 80g/100 litres (then use an alternative product or 110g/100 litres Captan to control botrytis over flowering also) and then apply 80g/100 litres at 14 day intervals.
Raspberries	Cane spot, Spur blight, Botrytis	110g/100 litres water	Thorough coverage is essential. Main crop: Apply every 10-14 days from green tip until harvest. Autumn crop: Apply every 10-14 days from November until harvest.
Stonefruit	Brown rot, Scab, Shothole	110g/100 litres water	Apply every 7 days from-bud-movement until bloom, then at 3-4 day intervals until petal fall, then fortnightly until 3 weeks before harvest. Apply weekly until harvest or if weather is wet.
Strawberries	Leaf spot, Botrytis	2.7kg/ha or 110g/100 litres water	Apply as necessary for leaf spot. For botrytis, apply 2.7kg /ha at 7 day intervals over flowering, and between pickings if warm wet conditions prevail.

VEGETABLE CROPS

Crop	Disease	Rate	Comments
Peas, Beans	Root rot, Damping off	6.2 - 8kg/ha	Broadcast pre-planting and work into upper 10cm of soil.
Carrots	Ring spot, Cercospora blight	2.7kg/ha	As necessary.
Cucurbits	Anthracnose, Downy mildew	1.3 - 2.7kg/ha	As necessary in sufficient water to give even coverage.
Lettuce	Leaf spot	4.0kg/ha	Every 10-14 days from rosette stage. The addition of a sticker is recommended.

SEED TREATMENT

Crop	Disease	Rate	Comments
Peas	Damping off	90g/500ml water/ 100kg seed	Keep stock solution well agitated and do not allow to stand overnight. GroCap® does not contain a sticker. A suitable sticker should be added to the stock solution. Contact your local representative for further advice. Ensure treated seed is clearly labelled. DO NOT USE TREATED SEED FOR HUMAN CONSUMPTION, STOCK OR POULTRY FOOD.
Potato seed	Seed rot, Damping off	110g/100 litres water	Use as a pre-planting dip treatment used within 6 hours of cutting.
Vegetable brassicas, maize, wheat	Damping off diseases	0.66g/kg seed	Form a suspension in sufficient water for complete coverage. Apply through seed treatment equipment. GroCap® does not contain a sticker or a pigment. These should be added to the stock solution. Keep stock solution well agitated and do not allow it to stand overnight. Ensure treated seed is clearly labelled: DO NOT USE TREATED SEED FOR HUMAN CONSUMPTION, STOCK OR POULTRY FOOD
Sweetcorn, pumpkin, squash, watermelon		1.0g/kg seed	
Beans		1.33g/kg seed	
Cucumbers		1.50g/kg seed	
Sorghum		2.0g/kg seed	
Fodder beet, spinach		3.0g/kg seed	
Ryegrass, forage brassicas		3.33g/kg seed	
Clover, lucerne		4.16g/kg seed	
Red beet		6.33g/kg seed	
Onions (pelleted)		6.66g/kg seed	

ORNAMENTALS - AMENITY TURF

Crop	Disease	Rate	Comments
Lawns	Brown patch, Leaf spot, Damping off	5.3kg/ha or 110g/100 litres water	As a soil drench using sufficient water for good soil penetration.
Ornamentals	Rose black spot, Carnation leaf spot, Chrysanthemum spot	110g/100 litres water	As necessary.
Soil and Glasshouse Drench	Damping off	110g/100 litres water per 100 square metres	Work into top 10cm of soil before planting.

Knapsacks:

Hydraulic types: 12g per 10 litres of water

Motorised mistblower types: Use 35g per 10 litres of water. Use middle settings on the restrictor and operate at sufficient throttle to give small droplets.

Move all foliage in the airstream.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIOD:

Apples and pears	3 days
Boysenberries, Loganberries and other brambles, Carrots	14 days
Blueberries, Currants, Raspberries, Gooseberries and Strawberries	1 day
Curcubits	3 days
Grapes	21 days
Stonefruit and Lettuce	7 days
Citrus	28 days

For export crops – consult your exporter for advice about any likely restrictions. Do NOT use treated seed for human consumption, stock or poultry food.

Registered pursuant to the ACVM Act 1997, No P9736.
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, Approval Code: HSR000503.
See www.epa.govt.nz for approval conditions

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered and distributed by: Grosafe Chemicals Ltd
20 Jean Batten Drive
Mt Maunganui 3116
POBox 14-450 Tauranga 3141
Tel: 0800 220 002
Email: info@grosafe.co.nz
www.grosafe.co.nz

Batch No:

Date of Manufacture:



GroCap® is a Registered Trademark of Grosafe Chemicals Ltd