

DANGER KEEP OUT OF REACH OF CHILDREN ECOTOXIC READ LABEL BEFORE USE

Grosafe®

# FreeFlo® Copper

## FRUIT, VEGETABLES & ROSES

## A Protectant Fungicide

CERTIFIED INPUT FOR ORGANICS bio gro NZ CERT 4547

makes up to 200L

200g

GSFFC420/F02

PROTECTS YOUR PLANTS FROM


Blight


Bacterial Blast


Brown Rot


Black Spot


Leaf Curl


Shot Hole

See back label for full list

PEEL HERE

# FREEFLO® COPPER 200g

**MIXING INSTRUCTIONS:** Use the measuring cap supplied. The cap supplied has marked lines and if filled to the top line is equal to 11g. Half fill the spray tank with water, slowly add the required amount of **FreeFlo® Copper** while keeping well stirred. Complete top up with water. If phytotoxicity is in question (on tender foliage, or when using high dose rates) test on a small area before full application.
**WITHHOLDING PERIOD:** 1 day

| CROP | DISEASE | RATE g/10 L | APPLICATION RATE, TIMING |
|---|---|---|---|
| Apples | Black Spot | 11 | Full cover spray. Apply between silver tip and green tip ( max 1cm green tip ) |
| Citrus | Melanose Verrucosis, | 4.5 - 9 | Apply before and after blossom |
| | Brown Rot | 9 - 11 | Apply in Autumn to the skirts of the trees, to a height of 1 metre, to the drip line and 50 cm beyond. Use higher rate if conditions favour disease. |
| Feijoas | Leaf Spot | 7 - 9 | Repeat as necessary |
| Roses | Black Spot | 10 | Apply at first signs of new growth then at 14 day intervals depending on weather conditions. Do NOT use a spray adjuvant. |
| Stone Fruit | Leaf Curl, Shot Hole, Bladder Plum | 11 | Apply when buds are swelling, within one week before buds open, with a second application of 11.5 g/ 10 litres water, 10 - 14 days later. |
| | Bacterial Blast | 31 | Apply at leaf fall and repeat every 4 weeks until bud movement, then treat as for Leaf Curl. |

**HAZARD CLASSIFICATIONS:** Acute toxicity, Category 4; Serious eye damage, Category 1; Skin sensitisation, Category 1; Specific target organ toxicity (repeated exposure), Category 2; Aquatic toxicity, acute and chronic, Category 1; Hazardous to terrestrial vertebrates.



**A protectant fungicide for the control of a range of fungal and bacterial diseases on citrus, pipfruit, stonefruit, vegetables and roses.**

Registered and distributed by:
**GROSAFE CHEMICALS LTD**
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0800 220002 | info@grosafe.co.nz | www.grosafe.co.nz
See container for Batch code & Date of Manufacture

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**ACTIVE INGREDIENT:** Contains 300 g/kg copper as copper hydroxide in the form of a water dispersible granule.

**TOXICITY DANGER:** Causes serious eye damage.
Harmful if swallowed. May cause sensitisation from prolonged contact. May cause lung damage from repeated oral exposure at high doses.
**ECOTOXICITY:** Very toxic to aquatic organisms and with long-lasting effects.
Harmful to terrestrial vertebrates. Do not apply directly 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. Avoid contamination of any water supply with chemical or empty container.
**PERSONAL PROTECTION:** Use only outdoors or in well-ventilated area. Avoid breathing dust, mist or spray. When using wear overalls, a face mask, safety glasses and rubber gloves. Do not eat, drink or smoke while using. Wash hands and face before rest breaks and after using.
**STORAGE:** Store product in original container, tightly closed, in a cool dry place. Keep out of reach of children, and away from foodstuffs. Shelflife: When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact your supplier for further information about the use of any product that is older than this.
**SPILLS:** If spray mixture is spilled absorb, with soil, sand or sawdust, and bury, or collect into bag that can be closed and disposed ofin rubbish collection.
**PRODUCT DISPOSAL:** If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
**CONTAINER DISPOSAL:** Triple rinse and add to the spray tank. Dispose of rinsed container in rubbish collection. Do not use for any other purpose.
**SAFETY DATA SHEET:** A safety data sheet is available from Grosafe Chemicals Ltd.

**FIRST AID:** For advice call a doctor or the National Poisons Centre ( 0800 764 766 ). Have product label or container at hand. If swallowed, rinse mouth but do not induce vomiting. Get advice if you feel unwell. If on skin wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice. If in eyes flush with plenty of water. Remove contact lenses if present after first few minutes and keep rinsing. Immediately get medical advice. Ifinhaled remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice if person feels unwell.

**EMERGENCY RESPONSE 0800 CHEMCALL - (0800 243 622)**

**It is an offence to use this product on animals.**

**DIRECTIONS FOR USE:** Ensure good coverage offoliage.
When mixing, other products should be added only after the **FreeFlo® Copper** has been dispersed.

| CROP | DISEASE | RATE g/10 L | APPLICATION RATE, TIMING |
|---|---|---|---|
| Asparagus | Stemphylium Leaf Spot | 25 - 37.5 | Spray at first appearance of disease, after closing up. Repeat at 14 day intervals. Up to six sprays may be required. |
| Avocado | Anthracnose | 7 - 9 | Apply monthly from flowering to harvest. Use higher rate and shorten the interval when conditions favour the disease. |
| Beans | Bacterial Blight | 25 - 31 | Apply at 7 - 14 day intervals when plants reach 15 cm high. |
| Bushfruit, Canefruit | Cane Wilt, Cane Spot, Spur Blight, Leaf Spot | 7 - 9 | Apply from bud burst at 10 - 14 day intervals. Use the higher rate early season or in conditions that favour the disease. |
| Brassica crops: Broccoli, Brussel Sprouts, Cabbage, Cauliflower | Downy Mildew | 7 - 9 | Apply at 10 - 14 day intervals following emergence, or after setting out transplants. |
| Celery | Septoria Leaf Spot | 9 | After setting out transplants apply at 5 - 7 day intervals, depending on disease severity. **EnSpray 99®** spray oil may be added at 1 litre per 100 litres of spray mix. |
| Curcurbits | Angular Leaf Spot, Downy Mildew | 7 - 13 | Apply at 7 day intervals when plants begin to vine. |
| Grapes | Black Spot, Downy Mildew | 6.5 - 13 | Apply at 10 - 14 day intervals from bud break to harvest. Adjust rate or stop ifinjury is observed |
| Kiwifruit | Leaf Spot, Phomopsis sp. Botryosphaeria | 7 - 9 | Apply after harvest before leaffall, after pruning, and two sprays four weeks apart prior to bud burst. |
| Lettuce | Downy Mildew | 7 - 11 | Apply at 7 - 10 day intervals following emergence, or after setting out transplants. |
| Onions | Downy Mildew Bacterial Blight | 9 | Apply at the first sign of infection and repeat every 10 - 14 days as required. |

| CROP | DISEASE | RATE g/10 L | APPLICATION RATE, TIMING |
|---|---|---|---|
| Passionfruit | Septoria Spot, Brown Rot, Grease Spot | 4.5 | Apply at 2 – 4 week intervals from November to March, alternating with maneb/mancozeb. For grease spot 2 week intervals may be required. |
| Peas | Downy Mildew Leaf Spot | 7 - 9 | Apply at 7 - 14 day intervals following emergence. |
| Pear ( including Nashi ) | Black Spot | 11 | Apply one spray between silver tip and green tip ( max. 1 cm green tip ).<br>Non-bearing trees: Apply cover sprays at 14 - 21 day intervals until vegetative growth ceases.<br>Post Harvest: Apply 19 g/10 litres at 21 days from harvest to leaffall. Reduce interval in wet weather.<br>Smooth skin varieties: Do not apply between green tip and harvest or russeting may occur. |
| | Fire Blight *( Erwinia amylovora )* | 2.5 - 4.5 | |
| *Pinus radiata* | Pine Needle Blight *( Dothistroma pini )* | 12.5 - 31 | Apply in October. Repeat annually.<br>Repeat applications may be required at 4 weekly intervals on seedlings over growing season. |
| Potato | Early Blight, Late Blight | 13 - 20 | Apply every 7 days when plant reaches 15 cm high, until 14 days before harvest. |
| Strawberries | Leaf Spot | 7 - 9 | Begin spraying when plants are established and repeat at 7 - 10 day intervals through the season. Stop if signs of crop injury appear. |
| Tamarillo | Leaf Spot | 7 | Apply when infection is seen. |
| Tomato | Early Blight<br>Late Blight<br>Bacterial Speck<br>Bacterial Spot | 7 - 13 | Apply at 7 - 10 day intervals depending on weather conditions. Increase volume as crop matures: ensure coverage of upper and lower leaf surfaces. Repeat spray after 13mm rain, or irrigation. |

Registered pursuant to the ACVM Act 1997 No. P9918
See www.foodsafety.govt.nz for registration conditions

HSNO Act 1996, Approval code: HSR000739
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.

FreeFlo® and EnSpray 99® are trademarks of Grosafe Chemicals Ltd.

GSFFC420/B03