COPPER-FLOW-PLUS

Reg. No.: L 6831 Act /Wet No. 36 of/van 1947

A copper containing solution, contact bactericide and fungicide for the preventative control of diseases as indicated. ‘n Koperbevattende oplossing, kontak bakterie-en swamdoder vir die voorkomende beheer van siektes soos aangedui.

| FRAC FUNGICIDE GROUP CODE: | M1 | FRAC SWAMDODERGROEP KODE: |

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:
Copper ammonium acetate / Koper ammonium asetaat ......................... 315 g/ℓ
copper equivalent / koper ekwivalent (copper equivalent / koper ekwivalent 93 g/ℓ)

Registration holder / Registrasiehouer:
ARYSTA LifeScience South Africa (Pty) Ltd
7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge,
South Africa, 4019
Tel: 031 514 5600

Contents/Inhoud

Batch No. / Lot Nr.:
Date of manufacture: / Datum van vervaardiging:

U.N. No. 3082

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.
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Registration holder / Registrasiehouer:
Tsunami Plant Protection (Pty) Ltd trading as ARYSTA LifeScience South Africa (Pty) Ltd
7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge, South Africa, 4019
Tel: 031 514 5600

CAUTION / VERSIGTIG

WARNINGS:

<table>
<thead>
<tr>
<th>Minimum time between last application and harvest or feeding:</th>
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</thead>
<tbody>
<tr>
<td>Apples, Avocados, Mangoes &amp; Peaches</td>
</tr>
<tr>
<td>Beans, Cruciferae, Cucurbits &amp; Tomatoes</td>
</tr>
<tr>
<td>Grapes (Table)</td>
</tr>
<tr>
<td>Grapes (Wine)</td>
</tr>
<tr>
<td>Potatoes</td>
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</tbody>
</table>

- Handle with care.
- Harmful when swallowed.
- May irritate skin and eyes.
- Store away from food and feedstuffs in a cool, dry place.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, incompatibility with other substances not indicated on the label and the occurrence of resistance of the disease to the remedy concerned as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS:
- Do not inhale spray mist.
- Wear protective clothing, face shield and rubber gloves while handling the product.
- Wash with soap and water after use.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a
minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.

- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- Never re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**RESISTANCE WARNING:**

For resistance management, **Copper-Flow-Plus** is a group code M1 fungicide. Any fungus population may contain individuals naturally resistant to **Copper-Flow-Plus** and other group code M1 fungicide. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **Copper-Flow-Plus** or any other group code M1 fungicide.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicide from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes,
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product.

**DIRECTIONS FOR USE:** Use only as directed

**Compatibility:**

- The stability and efficacy of **Copper-Flow-Plus** is pH dependant and the product should preferably not be used together with acidifying agents, buffers or phosphorous agents.
- For optimum results the final tank mixture should be at a pH of 7.

**IMPORTANT:**

- It is essential that **Copper-Flow-Plus** be kept agitated throughout the entire mixing and spraying operation.
- **Copper-Flow-Plus** must be applied within one hour of the product being diluted with water.
- All containers containing the concentrated product must be sealed properly once opened to prevent the loss of ammonia and the possible formation of crystals.
- **Copper-Flow-Plus** is a preventative spray and application must be carried out before or just as the first signs of the disease are noticed.
## APPLICATION RATES:

<table>
<thead>
<tr>
<th>CROP/DISEASE</th>
<th>DOSAGE RATE</th>
<th>REMARKS</th>
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| APPLES | 250 ml/100 l water | Spray at green tip stage. Apply two applications seven days apart. |
| AVOCADOS | 500 ml/100 l water | Use **Copper-Flow-Plus** preferably during low infestations and preferably as a last spray in a spray programme. |
| BEANS | 500 ml/100 l water | Apply every 7 to 14 days depending on the disease pressure. Spray immediately after heavy rains, hail or dust storms. |
| CABBAGE | 500 ml/100 l water | Apply under pressure till run-off. Apply weekly, depending on disease development. Ensure thorough wetting. Apply preventatively. |
| CUCURBITS | 400 ml/100 l water | Apply at an early trailing stage or when infestation is expected. Only use as a preventative spray. After the disease has established itself, a systemic fungicide must be used. Do not spray when plants are under stress conditions i.e. hot, dry conditions. |
| GRAPES | 500 ml/100 l water | Apply approximately 1000 litres spray mixture per hectare. Spray at least 4 times at weekly intervals. Use as a preventative measure. |
| GRAPES | 500 ml/100 l water | Apply as preventative sprays at the post blossom stage every 7 to 10 days depending on weather conditions. Apply 1000 to 1500 litres spray mixture per hectare. |
| MANGOES | 500 ml/100 l water | Apply at 2 to 4 week intervals from just after fruit set until harvest. The product is especially suited for application as the last two sprays at the end of a spray programme. |
| PEACHES | 400 ml/100 l water | Apply at approximately 50% leaf drop stage. Add 200 grams spray lime to each 100 litres of spray mixture. |
| POTATOES | 500 ml/100 l water | Commence spraying before or when first symptoms are noticed. Apply every 7 to 10 days depending on weather conditions, which favour development of this disease. Depending on plant size apply at a rate of 500 to 1500 litres spray mixture per hectare. Ensure that both upper and lower surfaces are treated. Repeat application after more than 13 mm of rain or overhead irrigation. |
| Late blight | 500 ml plus 200 g mancozeb per 100 l water (tank mix) | Apply the combination as a preventative spray at 7 to 10 day intervals. Depending on plant size apply at a rate of 500 to 1500 litres spray mixture per hectare. Ensure that both upper and lower leaf surfaces are treated. Repeat application after more than 13 mm of rain or overhead irrigation. |
**ROSES**  
Black spot, Downy mildew & Rust  

| 500 ml/100 l water (5 ml/1 l water) | Wet the leaves thoroughly. Spray every second week. Use a systemic fungicide as a curative spray if disease is already in progress and follow up with **Copper-Flow-Plus**. |

**TOMATOES**  
Early blight  

| 500 ml/100 l water | Start application shortly after transplant when plants are 15 cm high and before symptoms appear. Apply every 7 to 10 days depending on weather conditions favourable for development of the disease. Depending on the plant size, apply at a rate of 500 to 2000 litres spray mixture per hectare. Ensure that both upper and lower leaf surfaces are treated. Repeat application after more than 13 mm rain or overhead irrigation. |

| 500 ml/100 l water | Apply as a preventative spray at 7 to 10 day intervals. Depending on plant size apply spray at a rate of 500 to 1500 litres spray mixture per hectare. Ensure that both the upper and lower leaf surfaces are treated. Repeat application after more than 13 mm of rain or overhead irrigation. |

| 500 ml/100 l water (5 ml/1 l water) | Spray seedlings at weekly intervals with a hollow cone spray. |