MANCOZEB 800 WP
(Reg. No. L7381, Act 36/1947)

AN ORGANIC WETTABLE POWDER FUNGICIDE FOR THE CONTROL AND PREVENTION OF VARIOUS FUNGAL DISEASES ON CROPS AS LISTED.

FRAC FUNGICIDE GROUP CODE M3

Active ingredient:
Mancozeb (dithiocarbamate) 800 g/kg

Registered and distributed by:
Ag-Chem Africa (Edms) Bpk
(Reg. No. 1998/013411/07)
P.O. Box 589
Silverton
0127

BLUE BAND

WARNINGS:
• Withholding periods: Minimum number of days between last application and harvest.

<table>
<thead>
<tr>
<th>Crop Type</th>
<th>Withholding Period</th>
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</thead>
<tbody>
<tr>
<td>Tomatoes, beans, peas and cucurbits, cruciferae, potatoes</td>
<td>3 days</td>
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<tr>
<td>Groundnut foliage to be used as fodder</td>
<td>21 days</td>
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<tr>
<td>Peaches and apricots</td>
<td>28 days</td>
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<tr>
<td>Table grapes</td>
<td>4 – 6 weeks</td>
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<tr>
<td>All other edible crops</td>
<td>14 days</td>
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</table>

Please note that the recommended withholding period meets local residue requirements, but may not meet export standards.

• May cause irritation to the skin, eyes and respiratory tract.
• Toxic to fish.
• Keep out of reach of children, uninformed persons and animals.
• Keep the container well closed when not in use.
• Store in a cool, dry place, away from food or feed.
• Mancozeb 800 WP may generate flammable vapours if it is allowed to get damp and then warmed up. Therefore, keep away from sparks and open flames.
• Do NOT use Mancozeb 800 WP on tobacco seedlings.
• Re-entry interval: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
• Aerial application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease or pest against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore 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 the event of any uncertainty.

PRECAUTIONS:
• Avoid contact with the skin, eyes and clothes.
• Avoid inhalation of dust and spray mist.
• Wear a face shield and rubber gloves when mixing the product.
• In case of skin contact wash thoroughly with soap and water.
• In case of contact with eyes, rinse eyes with copious amounts of clean water and get medical attention if necessary.
• Wash contaminated clothing.
• Do not spray over water or allow spray drift onto water or adjacent areas not under treatment.
• Prevent contamination of food, feed, drinking water and eating utensils.
• Containers and packages must be completely emptied before being disposed of.
• Shake out thoroughly into the mixing or spray tank before destroying the empty container.
• Do not burn the empty container.
• Destroy the empty container by perforation and flattening and do not use for any other purpose.

AG-CHEM January 2004
**DIRECTIONS FOR USE:** Use only as indicated.

**COMPATIBILITY:**
Compatible with most fungicides and insecticides. Do NOT use in combination with alkaline materials, such as lime sulphur and Bordeaux mixtures. Do NOT use together with Calcium Arsenate or Urea on citrus.

**MIXING INSTRUCTIONS:**
Half fill the spray tank with water. Mix the recommended quantity *Mancozeb 800 WP* with a little water to form a thick cream. Add more water, stir well and add to the spray tank whilst filling the spray tank with water. When used with emulsifiable concentrates, it is essential that the *Mancozeb 800 WP* be properly creamed in a little water before adding to the spray tank. The tank should then be topped up with water and the contents well agitated before the emulsifiable concentrate is added. Maintain agitation of spray tank contents throughout the spraying operation.

**Note:** *Mancozeb 800 WP* should be applied **before** overhead irrigation. Apply before infection periods or in regular programmes.

<table>
<thead>
<tr>
<th>CROP/DISEASE/PEST</th>
<th>DOSAGE / 100 ℓ WATER</th>
<th>DOSAGE / HECTARE</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td><strong>Potatoes</strong></td>
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<tr>
<td>Early and Late Blight</td>
<td>200 – 300 g</td>
<td>2 – 3 kg</td>
<td><strong>High Volume:</strong> Start application after emergence of the crop. Apply 500 – 1 000 ℓ spray mixture per hectare depending on the plant size. <strong>Low Volume:</strong> Use only suitable equipment and apply in 200 – 300 ℓ water/ha. <strong>Aerial Application:</strong> Apply in 30 ℓ water/ha. Use the higher rate from 6 weeks after emergence or when conditions are favourable for disease development. Repeat application every 7 – 10 days or after rain.</td>
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<tr>
<td><strong>Fusarium Dry Rot and Common Scab</strong></td>
<td>300 g</td>
<td></td>
<td><strong>For seed potatoes only.</strong> Treated tubers not for consumption. Dip whole or cut tubers in a suspension in disease-free containers under cool, humid and well-aerated conditions. Change the dipping solution frequently especially if the potatoes have a film of soil.</td>
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<tr>
<td><strong>Tomatoes</strong></td>
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<tr>
<td>Early and Late Blight, and Septoria Leaf Spot</td>
<td>200 g</td>
<td>Start application shortly after transplant at 500 ℓ spray mixture per hectare and increase the spray mixture volume to 3 000 ℓ/ha as the plants increase in size. <strong>Note:</strong> <em>Mancozeb 800 WP</em> can also be used on tomato seedlings.</td>
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<td><strong>Groundnuts</strong></td>
<td>Dryland: 400 g</td>
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<tr>
<td>Cercospora Leaf Spot</td>
<td>Irrigated lands: 300 g</td>
<td>Start application at the first signs of disease appearing at the base of the plant. Apply 400 – 500 ℓ spray mixture per hectare every 14 days for a total of 5 applications. Start application at the first signs of disease appearing at the base of the plant. Apply in 1 000 ℓ spray mixture per hectare every 14 days for a total of 5 applications.</td>
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<tr>
<td><strong>Cucurbits</strong></td>
<td>200 g</td>
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<tr>
<td>Anthracnose and Downy Mildew</td>
<td></td>
<td>Apply in 1 000 – 1 500 ℓ spray mixture/ha at the first signs of disease. Ensure that the lower leaf surfaces are thoroughly wetted.</td>
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<tr>
<td><strong>Beans</strong></td>
<td>1 – 4 kg</td>
<td><strong>For Anthracnose control</strong> start spraying when first flowers appear. Otherwise start application at the first signs of disease and repeat at intervals of 7 – 10 days. The dosage depends on the plant density and size. Use enough water to ensure thorough wetting. Apply in 30 ℓ water/ha for aerial application.</td>
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<tr>
<td>Peas Downy Mildew</td>
<td>1 – 4 kg Apply with 7 – 10 day intervals from the first signs of disease. The dosage depends on plant density and size. Use enough water to ensure thorough wetting. Apply in 30 ℓ water/ha for aerial application.</td>
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<tr>
<td>Onions Downy Mildew</td>
<td>1 – 4 kg Apply with 7 – 10 day intervals from the first signs of disease or at the 4 – 6 leaf stage. The dosage depends on plant density and size. Use enough water to ensure thorough wetting. Add a wetter/spreader such as Aqua-Wet to the spray mixture.</td>
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<tr>
<td>Cruciferae Downy mildew</td>
<td>1 – 4 kg Apply with 7 – 10 day intervals from the first signs of disease or at the 4 – 6 leaf stage. Treat seedbeds every 3 – 5 days. The dosage depends on plant density and size. Use enough water to ensure thorough wetting. Add a wetter/spreader such as Aqua-Wet to the spray mixture.</td>
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<tr>
<td>Ornamentals Downy Mildew, Anthracnose and Ruts</td>
<td>150 – 200 g Apply at first signs of the disease and repeat 7 – 10 days later. The dosage depends on the severity of the disease. Make sure that the plants are thoroughly wetted. Add a spreader/sticker to the spray mixture.</td>
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<td>Olives Anthracnose</td>
<td>200 g Apply as the first application in autumn before the discolouration of fruit begins. Repeat 2 – 3 times at monthly intervals.</td>
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<tr>
<td>Papaya Black Speckle</td>
<td>2 kg Apply every 28 days from flowering onwards. Shorten the intervals to 14 days under high infection pressure. For low volume application (25 – 40 ℓ spray mixture per hectare) add mineral oil (light/narrow range) at a rate of 16 ℓ/100 ℓ spray mix.</td>
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<td>Mangoes Anthracnose</td>
<td>200 g Start application when panicles appear, but before the flowers open. Apply a second spray at fruit set. Thereafter repeat every 14 – 21 days.</td>
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<td>Bananas Sigatoka Disease</td>
<td>2,5 kg + 4 – 5 ℓ light/medium mineral oil Apply as a low volume application. Apply the first application towards the end of November. Repeat every 26 days until after the rainy season.</td>
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<tr>
<td>Guavas Lump Disease and Blossom-End Rot</td>
<td>200 g For the control of lumpy disease apply in the early stages until the fruit begins to swell. Apply as a full cover application with 30 day intervals. For protection against blossom-end rot, apply as a full cover application 14 days before harvesting when very wet weather is experienced.</td>
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<tr>
<td>Citrus Black spot and Melanose</td>
<td>200 g OR 200 g for the first 2 sprays, then 150 g + 600 ml light/medium mineral oil for the next 2 – 3 sprays If rainfall is normal during July to September, spray during the third week of October and repeat 3 times every 25 days. OR If rainfall is above normal July to September, apply after full petal drop and repeat 4 times every 25 days.</td>
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<tr>
<td>Citrus Rust Mite</td>
<td>75 g Apply in spring. The Mancozeb 800 WP programme against black spot will also control rust mite.</td>
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<td>Brown Rot</td>
<td>200 g Apply 3 weeks before harvest to all fruits up to 1 metre above the soil surface. Also treat the stem and soil surface under the tree.</td>
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<tr>
<td>Citrus (cont.) Necrosto ma</td>
<td>200 g</td>
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<td>Apply as a cover spray early in December and repeat early January. In case of severe infection, the symptoms will only be suppressed.</td>
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<tr>
<td><strong>Grapes Downy Mildew</strong></td>
<td><strong>Pre-blossom:</strong> 200 g</td>
<td><strong>1 – 1,5 kg</strong></td>
<td><strong>Apply first spray when young shoots have reached a length of 10 cm. Repeat with 7 – 10 day intervals, depending upon weather conditions. Apply as a high volume application at 500 – 700 ℓ spray mixture per hectare.</strong></td>
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<td><strong>Blossom – 80% Calyx fall:</strong> 200 g</td>
<td><strong>1,5 – 2 kg</strong></td>
<td><strong>Apply only if the blossoming period is longer than 14 days. Apply 750 – 1 000 ℓ spray mixture/ha.</strong></td>
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<td><strong>Post blossom:</strong> 200 g</td>
<td><strong>2 – 3 kg</strong></td>
<td><strong>Apply two more applications at 7 – 14 day intervals depending on weather. Apply 1 000 – 1 500 ℓ spray mixture per hectare.</strong></td>
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</table>
| **Dead Arm Disease** | 200 g | | **Start application when the shoots reach a length of 0,5 – 1 cm. Apply 3 times with 7 – 10 day intervals prior to blossoming. Apply as a high volume application at 500 – 700 ℓ spray mixture/ha.**

**NOTE:** Application of Mancozeb 800 WP should be made before overhead irrigation. |
| **Quinces Black Spot** | 125 g | | **Start application at the green tip stage. Repeat with weekly intervals until 75 % petal drop. Thereafter, repeat every 10 – 14 days until the risk for regular rain decreases.** |
| **Apples and Pears Scab and Septoria Leaf Spot** | **HV 150 g** | **HV 3,0 – 5,25 kg** | **Apply as a high volume application in 2 000 – 3 500 ℓ spray mixture/ha. May be applied as both a pre- and post-blossom sprays.**

**Pre-blossom:** Apply a total of 3 applications from green tip stage to just prior to blossoming.

**Post-blossom:** Apply immediately after blossoming and repeat 4 – 6 times with 7 – 14 day intervals. Use the lower spray volume for the pre-blossom and the first 1 – 2 post blossom sprays and the higher spray volume for all subsequent applications. Apply as a high volume application in 500 – 900 ℓ water/ha immediately after blossoming. Repeat 4 – 6 times with 7 – 14 day intervals. Use the lower spray volume for the first 1 or 2 post-blossom application and the high volume for all subsequent applications.

**NOTE:** Mancozeb 800 WP is compatible with the most systemic fungicides registered for the treatment of scab. Refer to labels of such products to be used. |
<p>| <strong>LV 2 – 4 kg</strong> | | | |
| <strong>Young- and Boysenberries Downy Mildew and Anthracnose</strong> | 200 g | <strong>1 – 4 kg</strong> | <strong>Anthracnose:</strong> Start application as soon as the first flowers appear and repeat every 7 – 10 days. <strong>Downy Mildew:</strong> Start application when the first signs of the disease are noticed. Repeat application with 10 – 14 day intervals until the risk for regular rains decrease. Apply in adequate water to ensure thorough wetting of the plant foliage. |</p>
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<tr>
<td>Apricots, Peaches and Plums</td>
<td></td>
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<td>Winter Rainfall Region: Start applications early in November.</td>
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<tr>
<td>Rust</td>
<td>HV 150 g</td>
<td>HV 2,25 – 4,5 kg</td>
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<td>LV 1,80 – 3,6 kg</td>
<td>Summer Rainfall Region: Apply from mid-February. If necessary, repeat every 10 – 14 days. Apply the low volume application in 1/4 to 1/8 of the high volume spray volume/ha.</td>
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<td></td>
<td>Gumspot</td>
<td>HV 150 g</td>
<td>First application: Just after harvest in autumn.</td>
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<td>HV 1,8 – 3,75 kg</td>
<td>Second application: At 75 % leaf drop in autumn.</td>
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<td>LV 1,25 – 3,0 kg</td>
<td>Third application: In spring together with a copper spray at bud movement.</td>
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<td>Fourth application: In spring with 80 % petal fall.</td>
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<td>Last two applications: If necessary apply two more applications with 14 day intervals. For plums start application from mid-December. Apply two applications with a 10 day interval.</td>
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<tr>
<td>Apricots and Peaches</td>
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<td>Winter Rainfall Region: Apply at 75 – 100 % petal drop and repeat 14 days later. In wet seasons repeat the applications monthly on late cultivars.</td>
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<tr>
<td>Freckle</td>
<td>HV 150 g</td>
<td>HV 2,25 – 3,75 kg</td>
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<td>LV 1,80 – 3,0 kg</td>
<td>Summer Rainfall Region: Apply first application 3 weeks after petal drop and repeat 14 days later. In wet seasons repeat monthly on late cultivars.</td>
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<td>NOTE: Do not apply more than six applications of Mancozeb 800 WP during the period that the fruit is on the tree.</td>
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</tbody>
</table>

_Aqua-Wet, Reg. No. L6204, Act No. 36 of 1947_