Bavistin® DF

Fungicide for the control of fungous diseases in apples, beans, cereals, citrus, field tomatoes, lettuce, stonefruit, and the causal organism of facial eczema.

Active Ingredient: Contains 500 g/kg carbendazim in the form of a water dispersible granule.
Chemical Group: Benzimidazole (MBC).

- Systemic, broad-spectrum fungicide
- Effective control of facial eczema in pasture
- Preventative and curative activity
- Cost effective
- Ideal tank mix partner for cereal fungicides such as Opus®

General Information

BAVISTIN DF is a systemic fungicide with protectant and eradicant activity. BAVISTIN DF is recommended for the control of specific diseases in a range of crops.

Mode of Action

BAVISTIN DF is absorbed by the plant and transported to its apex by the sap stream in an upward and outward direction. It acts on fungal pathogens by inhibiting the development of germ tubes, the formation of appressoria and the growth of mycelia.

Resistance Management

Resistance to BAVISTIN DF and related benzimidazole (MBC) fungicides has developed. In order to help prevent further development of resistant strains, use strictly in accordance with label instructions. Suppliers accept no liability for the failure of carbendazim to control resistant strains.

Directions for Use

The rates suggested are for high volume spraying to run-off unless otherwise specified. For concentrate spraying adjust dilution rate accordingly.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples</td>
<td>Black Spot</td>
<td>25 g/100 litres of water.</td>
<td>Confine use to the period from 2nd cover to pre-harvest, when infection pressure is high. Apply only in mixtures with suitable protectant fungicides such as Polyram® DF. Do not apply more than twice in any growing season.</td>
</tr>
<tr>
<td>Barley</td>
<td>Eyespot</td>
<td>300-500 g/ha in 200 litres of water.</td>
<td>Use 300 g rate at Zadok 33-37 (“Shot blade”) and the 500 g rate at Zadok 30 (leaf sheaths have lengthened). Use only in second year crop. If control was below expectations use an alternative product in the third year crop. Do not apply to more than two consecutive crops. For combined eyespot and scald control, apply according to eyespot recommendation. For scald control apply the higher rate at the first sign of disease. Apply no more than two applications per season.</td>
</tr>
<tr>
<td></td>
<td>Scald</td>
<td>300-500 g/ha in 200 litres of water.</td>
<td></td>
</tr>
<tr>
<td>Crop</td>
<td>Disease</td>
<td>Rate</td>
<td>Remarks</td>
</tr>
<tr>
<td>--------------</td>
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<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Beans</td>
<td>Botrytis</td>
<td>2 kg/ha in 600-1000 litres of water.</td>
<td>Apply in a programme with alternative botryticides. Use no more than two applications per season. Apply during the early season period immediately after transplanting or seed emergence.</td>
</tr>
<tr>
<td></td>
<td>Sclerotinia</td>
<td>2 kg/ha in 600-1000 litres of water.</td>
<td></td>
</tr>
<tr>
<td>Citrus</td>
<td>Blue Mould</td>
<td>50 g/100 litres of water. (Dip mixture)</td>
<td>Resistance is widespread. Use only in regions where control of Blue mould is still effective. Dip fruit after harvest for 30 seconds in the mixture.</td>
</tr>
<tr>
<td>Field tomatoes</td>
<td>Sclerotinia</td>
<td>2 kg/ha in 600-1000 litres of water.</td>
<td>Apply during the early season period immediately after transplanting or seed emergence.</td>
</tr>
<tr>
<td>Lettuce</td>
<td>Sclerotinia</td>
<td>2 kg/ha in 600-1000 litres of water.</td>
<td>Apply during the early season period immediately after transplanting or seed emergence.</td>
</tr>
<tr>
<td>Stonefruit</td>
<td>Peach scab</td>
<td>25-50 g/100 litres of water.</td>
<td>Apply during the blossom period only. Do not exceed two applications per growing season. Use the high rate when disease pressure is severe.</td>
</tr>
<tr>
<td></td>
<td>Brown rot</td>
<td>25-50 g/100 litres of water.</td>
<td></td>
</tr>
<tr>
<td>Wheat</td>
<td>Eyespot</td>
<td>300-500 g/ha in 200 litres of water.</td>
<td>Use 300 g rate at Zadok 32-37 (“Shot blade”) and the 500 g rate at Zadok 30 (leaf sheaths have lengthened). Use only in second year crop. If control was below expectations use an alternative product in the third year crop. Do not apply to more than two consecutive crops</td>
</tr>
</tbody>
</table>

**Withholding Periods:**
- Apples: 7 days; beans: 14 days; cereals: 60 days; lettuces: 21 days; stonefruit: do not apply after blossom period; tomatoes: 3 days.

**Mixing:**
BAVISTIN DF is a dry flowable formulation to be mixed with water for application as a spray. The addition of a spreader sticker is recommended for spraying hard-to-wet plants.

**Compatibility:**
BAVISTIN DF is compatible with most commonly used pesticides. Do not mix with strongly alkaline materials such as Bordeaux mixture and lime sulphur.

**Application:**
BAVISTIN DF may be applied through all conventional ground and aerial spraying equipment. Dilution rates given are for high volume spraying and should be increased accordingly for concentrate application.

**Rainfall:**
Rain falling within 3 hours following treatment may reduce effectiveness. Heavy rain soon after treatment will necessitate earlier re-treatment.

**For the Control of the Causal Organism of Facial Eczema in Pasture:**
BAVISTIN DF controls the toxin producing organism *Pithomyces chartarum* in pasture. Where possible, pastures should be treated in anticipation of danger periods. Protection normally lasts for up to 6 weeks.

**Rate**
Apply 300 g/hectare in 100 - 200 litres of water. Ensure complete coverage of all areas likely to be grazed e.g. under fence lines, hedges and trees etc. The addition of a suitable non-ionic surfactant is recommended.

**Timing**
In early February treat enough pasture to provide grazing for all susceptible stock for 14 days. Treat further areas as required so that stock may graze 7-10 days after spraying. If heavy rain occurs within 3 days of treatment, pasture should be re-sprayed.
Grazing
During danger periods, limit grazing of susceptible stock to treated areas. In emergency situations, some worthwhile protection is present on pasture sprayed at least 24 hours before grazing.

Toxicity
Low toxicity. Acute oral LD$_{50}$ (rat) $> 5000$ mg/kg. Acute dermal LD$_{50}$ (rat) $> 2000$ mg/kg.

First Aid
If swallowed, Do NOT cause vomiting. For advice contact the National Poisons Centre 0800 764 766 or a doctor immediately. If on skin or in hair, remove contaminated clothing and flush skin and hair with running water. If in eyes, wash out immediately with water.

Precautions

User:
Keep out of reach of children. Avoid contact with eyes and skin. Avoid breathing vapour, mist or spray. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow length PVC gloves and face shield. Do not eat, drink or smoke while using. Remove protective clothing and wash hands, face and exposed skin thoroughly before meals and after work. Wash contaminated clothing before re-use.

Contact and non-contact re-entry:
When fully dry.

Environment:
Bees - BAVISTIN DF is not toxic to bees when applied in accordance to the label. Toxic to Fish. Do NOT contaminate streams, rivers or waterways with the chemical or empty container.

Storage:
Store in original container, tightly closed, away from foodstuffs and under lock and key.

Disposal:
Ensure container is completely empty. Burn if circumstances, especially wind direction, permit. Otherwise, bury in a suitable landfill. Avoid contamination of any water supply with chemical or empty container.

Pack Size
5 kg box.

Transport Information

<table>
<thead>
<tr>
<th>UN No.:</th>
<th>DG Class:</th>
<th>Subsidiary Risk Class:</th>
<th>Packing Group:</th>
<th>HAZCHEM:</th>
<th>MTQ*:</th>
<th>Marine Pollutant:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3077</td>
<td>9</td>
<td>NA</td>
<td>III</td>
<td>2[Z]</td>
<td>250 kg</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Maximum Transport Quantity. Maximum quantity that can be carried as tools of trade, or for private, agricultural or commercial use without the need for complying with all the requirements of the Land Transport Rule e.g. placarding.

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