MYCOTAL®
MAPP No. 16644

CONTAINS
1 x 10E10 CFU/g Lecanicillium muscarium Ve-6
Water Dispersible Granule (WG)

IMPORTANT INFORMATION
FOR USE ONLY AS A HORTICULTURAL INSECTICIDE

USER: Professional

For control of whitefly on protected crops of tomato, cucumber, pepper and chilli, ornamental plant production, aubergine, runner bean, broad bean, French bean, lettuce, squash, gherkin, melon, pumpkin and courgette.
Qualified Recommendation for Minor Use: for the moderate control of glasshouse whitefly in protected strawberry

Maximum individual dose: 2 kg product per hectare
Maximum number of applications: 8 per crop

Other specific restrictions:
1. Maximum concentration must not exceed 1 g product per litre of water
2. A minimum interval of 7 days must be observed between applications
3. Treatment must only be made under 'permanent protection' situations which provide full enclosure (including continuous top and side barriers down to below ground level) and which are present and have been maintained over a number of years
4. Reasonable precautions must be taken to prevent access of birds, wild mammals and honey bees to treated crops
5. To minimise airborne environmental exposure, vents, doors and other openings must be closed during and after applications until the applied product has fully settled

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

BATCH NO
see top

USE BY
see top

NET CONTENT
500 g

PRODUCT NUMBER
10101

STORAGE
Keep refrigerated at 2-6°C. Do not keep in domestic refrigerators. Do not freeze.

EXTENSION OF AUTHORISATION:
Protected crops of bilberry, blackcurrant, blueberry, cranberry, gooseberry, redcurrant, ribes hybrids, table grapes, wine grapes, blackberry, loganberry, raspberry, rubus hybrids and herbs.
This extension of the authorised use provides for the use of Mycotal® in respect of crops and situations other than those included on the product label (above). Neither the efficacy or the phytotoxicity of the product for which this extension of authorisation has been granted have been assessed and, as such, the user bears the risk in respect of failures concerning its efficacy and phytotoxicity.

SAFETY PRECAUTIONS
Contains Lecanicillium muscarium **Ve-6: Micro-organisms may have the potential to provoke sensitising reactions**

OPERATOR PROTECTION
WASH HANDS AND EXPOSED SKIN before meals and after work
DO NOT BREATHE DUST
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the product or applying the product

*Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent

ENVIRONMENTAL PROTECTION
Do not contaminate water with the product or its container
Do not clean application equipment near surface water
Avoid contamination via drains from farmyards and roads

STORAGE AND DISPOSAL
KEEP OUT OF THE REACH OF CHILDREN
KEEP IN ORIGINAL CONTAINER tightly closed, in a safe place
DO NOT REMOVE INNER LINER FROM CONTAINER
EMPTY CONTAINER COMPLETELY and dispose of safely

To avoid risks to man and environment, comply with the instructions for use.

MYCOTAL® is a registered trademark of Koppert BV

DIRECTIONS FOR USE
IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

Mycotal® contains the spores of a specific strain of the entomopathogenic fungus Lecanicillium muscarium which is highly infective to whitefly. The use of the adjuvant Addit (Approved Adjuvant No. A0693) is recommended with Mycotal®.

MODE OF ACTION
Mycotal® is effective by direct contact, and under the right environmental conditions, kills glasshouse whitefly after 7-10 days. Applications should target larvae and pupae, as there is no activity against eggs. Repeat applications (up to 4) may be necessary, at the specified interval, to treat new larvae as they emerge, and break the pest lifecycle. After spraying, the spores germinate and grow, producing hyphae that penetrate the body cavity, where they proliferate, destroying the tissues. The fungus then grows through the insect cuticle and produces spores on the outside of the cadaver, which may spread the infection to other whitefly.

ENVIRONMENTAL CONDITIONS
The successful performance of Mycotal® is dependent on the suitability of the temperature, relative humidity conditions within the crop cover, and timing of application, and requires the following minimum conditions:
Relative humidity: 70% (when used with Addit)
Temperature: 18°C (maximum temperature 30°C)

APPLICATION
Dose Rate: 1 g/l. Mix required amount of Mycotal® with enough water (at 15-20°C) to stir it into a slurry. Fill spray tank with required amount of water. Empty slurry into spray tank and agitate well. Add a concentration of 0.25% Addit (0.125% for strawberry) to the spray solution and mix thoroughly. Apply immediately after preparation with high volume spraying equipment, to provide more water for germination and growth of the spores as well as increasing local humidity. Spray during the late afternoon and early evening, directing the spray onto the undersides of the leaves and to the growing points. Good coverage is essential for the best results. Use 500 l/ha spray suspension for each metre of canopy height. Keep the spray liquid well-agitated.

MYCOTAL



TIMING AND NUMBER OF APPLICATIONS
Mycotal® must be used early in the crop when pest numbers are low. For effective control, up to 4 applications per whitefly outbreak may be made, at 7-10 day intervals, with a maximum of 8 applications per crop.

RESISTANCE MANAGEMENT
Resistance to Lecanicillium muscarium is not currently known to occur. To minimise the risk of resistance developing, it is good practice to use a range of IPM techniques as part of a planned programme. Blocks of treatments should be alternated with products and techniques with different modes of activity. No more than 4 consecutive applications of Mycotal® should be made. It is not advisable to use Mycotal® continually in successive crops within a structure.

COMPATIBILITY: CHEMICAL CONTROL AGENTS
The effects of other pesticides on Mycotal®, when used on the same crop, have not been fully determined. However selective use of chemical control agents with Mycotal® may be possible provided that products are not tank mixed with Mycotal®, and that fungicides are only used up to three days before, or more than three days after, an application of Mycotal®.

Do not use any product containing the following active ingredients in conjunction with Mycotal®: captan, chlorothalonil, fenarimol, dichlofluanid, imazalil, maneb, prochloraz, quinomethionate or thiram.

COMPATIBILITY
Limited evidence suggests that Mycotal® has negligible effects on commercially available natural enemies (predators/parasites) and may be used in conjunction with them with some margin of safety. Before using Mycotal® with a particular biological control agent for the first time, growers should consult Koppert UK Ltd.

When using a product on a crop for the first time, always test a small area for compatibility prior to treating the whole crop.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work

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KOPPERT BV guarantees that Mycotal® is fit for the purpose and conforms to the specifications stated on this label. KOPPERT BV gives no warranty, express or implied, including the warranties of commercially acceptable quality and/or fitness for any particular purpose concerning this material, other than those which are stated on this label, and will not be liable for any direct or indirect damage which results from incorrect use of the product or non-compliance with the directions of this label.

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