

# Material safety data sheet

(According to 1907/2006/EC)



## MYCOTAL

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### **1 INFORMATION ON PRODUCT AND/OR PRODUCER**

- Name of the product MYCOTAL
- Use of the substance/preparation Microbial insecticide. For the control of whitefly in protected crops.
- Producer Koppert BV
- Address Veilingweg 14  
2651 BE Berkel en Rodenrijs, the Netherlands
- E-mail address info@koppert.nl
- Phone / Fax +31-10-514 04 44/ +31-10-511 52 03
- Information available from Marketing / Product management
- Information in case of emergency +31 (0)30-2748888  
The phone number of the National Anti Poisoning Center is only to be used by doctors or professionals in obtaining information in case of accidental poisoning.

### **2 IDENTIFICATION OF THE DANGERS**

- Danger category and abbreviation: No symbol assigned
- Dangers to the health of humans and the environment: Not classified by EU, EFSA, ECHA
- Classification system: The classification corresponds with Directives 67/548/EEC, 1999/45/EC and 2001/58/EC
- Supplementary information: Micro-organisms may have the potency to provoke sensitization reaction.

### **3 COMPOSITION / INFORMATION ON INGREDIENTS**

- Composition/information on ingredients Formulation of spores of *Lecanicillium muscarium* (formerly *Verticillium lecanii*) ( $10^{10}$  spores/gram) with food approved ingredients and inert carriers.
- Information on hazardous ingredients Contains no hazardous chemical substances present on Annex I of Directive 67/548/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

### **4 FIRST AID MEASURES**

- Symptoms/effects -
- Inhalation exposure Move to fresh air. If symptoms persist, seek medical advice.
- Skin contact Wash skin with soap and water. Seek medical advice if irritation occurs and persists.
- Eye contact Rinse thoroughly with plenty of water for at least 10 minutes. Seek medical advice if irritation persists.

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| <ul style="list-style-type: none"><li>• Ingestion</li></ul> | Seek immediate medical advice in case of complaints. |
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### **5 FIRE-FIGHTING MEASURES**

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|--|--|
| <ul style="list-style-type: none"><li>• Suitable extinguishing agents:</li></ul>   | CO <sub>2</sub> foam or water jet            |
| <ul style="list-style-type: none"><li>• Unsuitable extinguishing agents:</li></ul> | Not applicable                               |
| <ul style="list-style-type: none"><li>• Special exposure dangers:</li></ul>        | Unknown                                      |
| <ul style="list-style-type: none"><li>• Protective equipment:</li></ul>            | Breathing apparatus and protective clothing. |
| <ul style="list-style-type: none"><li>• Supplementary information:</li></ul>       | The product is non-flammable.                |

### **6 ACCIDENTAL RELEASE MEASURES**

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Personal precautions:</li></ul>      | Wear protective clothing. See also Section 8.   |
| <ul style="list-style-type: none"><li>• Environmental precautions:</li></ul> | No specific recommendations.  |
| <ul style="list-style-type: none"><li>• Cleaning methods:</li></ul>          | Cover up spillages of the product before carefully vacuuming it up. If necessary, remove the last residues with water. Dispense of rinsing water via the sewerage system.   |
| <ul style="list-style-type: none"><li>• Supplementary information:</li></ul> | Local authorities must be warned if a leak cannot be controlled. Comply with all local legislation. For information on safe handling, see Section 7. For information on personal exposure, see Section 8. For information on removal, see Section 13. |

### **7 HANDLING AND STORAGE**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• Information on safe handling:</li></ul>           | Prevent the formation of dust. Do not place in a warm environment or in direct sunlight. |
| <ul style="list-style-type: none"><li>• Preventing fire and explosion:</li></ul>          | No special measures required. The product is non-flammable.                              |
| <ul style="list-style-type: none"><li>• Storage:</li></ul>                                | Storage temperature: 4-8°C: Keep dry in robust, closed packaging. Do not freeze.         |
| <ul style="list-style-type: none"><li>• Information relating to shared storage:</li></ul> | Keep away from food, drink and animal feed.  |

### **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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|---|--|
| <ul style="list-style-type: none"><li>• Exposure limits</li></ul>           | None established. Because of the lack of occupational exposure limits, the following is recommended:                 |
| <ul style="list-style-type: none"><li>• Respiratory Protection</li></ul>    | In case of opening of the packing, blending/loading and spraying, wear preferably a filter mask with filter type P3. |
| <ul style="list-style-type: none"><li>• Hand protection</li></ul>           | Wear safety gloves (butylrubber, PVC)  |
| <ul style="list-style-type: none"><li>• Eye Protection</li></ul>            | Wear closed eye protection (monogoggles)   |
| <ul style="list-style-type: none"><li>• Other Protective Measures</li></ul> | Wear protective clothing. The usual precautions for handling chemicals should be considered.                         |

### **9 PHYSICAL AND CHEMICAL PROPERTIES**

- |  |                     |
|--|---------------------|
| <ul style="list-style-type: none"><li>• Appearance</li></ul> | Small granules (WG) |
|--|---------------------|

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• Colour	Light ivory
• Odour	Odorless
• pH	7.04 (1% w/v aqueous dispersion)
• Boiling point	Not applicable
• Self ignition/Flammability	does not ignite/not flammable
• Exploding properties	No explosive properties
• Oxidizing properties	No oxidizing properties
• Pour and Tap density	0.541g/ml and 0.580 g/ml
• Solubility in water	0.33 g/ml

### **10 STABILITY AND REACTIVITY**

• Stability	Stable during 6 months under recommended use and storage conditions.
• Materials to avoid	Not applicable
• Conditions to avoid	Avoid contact with heat or ignition sources.
• Hazardous decomposition products	None

### **11 TOXICOLOGICAL INFORMATION**

• Acute oral (LD <sub>50</sub> rat):	> 240 mg product/kg (2.4x10 <sup>9</sup> CFU/KG)
• Dermal (LD <sub>50</sub> rabbit):	> 4.4 mg product/kg (4.6x10 <sup>7</sup> CFU/KG)
• Inhalation (LC <sub>50</sub> 4h rat):	> 893 mg product/m <sup>3</sup> (9.6x10 <sup>9</sup> CFU/KG)
• Skin irritation (rabbit):	Non irritant
• Eye irritation (rabbit):	Non irritant
• Sensibilization (guinea pig):	Not a sensitizer

### **12 ECOLOGICAL INFORMATION**

*Lecanicillium muscarium* is a beneficial fungus

• Soil:	DT <sub>50</sub> : 4-5 days
• Water:	does not grow/survive in water
• Air:	UV-light kills the spores of the fungi
• Ecotoxicology:	
Bird (5 d. LC <sub>50</sub> ):	>1.2x10 <sup>9</sup> CFU/kg lg/day
Algae	no data available
Daphnia	> 3.8x10 <sup>8</sup> CFU/L
Fish (96 h. EC <sub>50</sub> )	> 6.2x10 <sup>9</sup> CFU/L

### **13 INSTRUCTIONS FOR DISPOSAL**

• Precautions	Wear suitable protective apparatus and clothing.
• Product disposal	Incinerate or dispose to licensed disposal contractor.
• Packaging	If the product is disposed, the recipient should be informed of the possible hazards of the product.
• Local legislation	The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.

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### **14 TRANSPORT INFORMATION**

Not dangerous for transport according to ADR/RID, IMO and/or IATA.

### **15 REGULATORY INFORMATION**

- Labeling in accordance with EC Directive: EFSA did not propose a classification
- Symbols and indications of danger regarding product: No Symbol assigned
- Risk phrases: None proposed
- Safety recommendations: S36/37 Wear suitable protective clothing and gloves
- Supplementary regulations, restrictions and prohibitions: All micro-organisms may have the potential to provoke sensitizing reactions. To avoid risk for man and the environment, comply with instructions for use.

### **16 OTHER INFORMATION**

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. This document contains important information regarding a safe disposal, handling and use of this product. The information should be brought to the attention of the health/safety/environment-consultant of your organization. The information from this document should be announced to anyone working with this product. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains to the user's own responsibility to make sure that the information is appropriate and complete for this special use of this product.