

Material safety data sheet

(According to 1907/2006/EC)



MYCOTAL

Last revision: 27/11/2018 Version 4.8

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1 INFORMATION ON PRODUCT AND/OR PRODUCER

- Name of the product MYCOTAL
- Use of the substance/preparation Microbial insecticide
- Address Producer Koppert BV
Veilingweg 14
2651 BE Berkel en Rodenrijs
The Netherlands
- Phone / Fax +31-10-514 04 44/ +31-10-5115203
- Information available from Marketing / Product management
- Information in Case of Emergency +31-10-5140444

2 IDENTIFICATION OF THE DANGERS

- Danger category and abbreviation: No symbol assigned
- Dangers to the health of humans and the environment: Not classified
- Classification system: The classification corresponds with regulation 1272/2008
- 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* Ve6 (10^{10} spore/g) 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.
- Ingestion Seek immediate medical advice in case of complaints.

5 FIRE-FIGHTING MEASURES

- Suitable extinguishing agents: CO₂ foam or water jet
- Unsuitable extinguishing agents: Not applicable
- Special exposure dangers: Unknown

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| <ul style="list-style-type: none">• Protective equipment:• Supplementary information: | Breathing apparatus and protective clothing.
The product is non-flammable. |
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6 ACCIDENTAL RELEASE MEASURES

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| <ul style="list-style-type: none">• Personal precautions:• Environmental precautions:• Cleaning methods:
• Supplementary information: | Wear protective clothing. See also Section 8.
No specific recommendations.
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.
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. |
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7 HANDLING AND STORAGE

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

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

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| <ul style="list-style-type: none">• Appearance• Colour• Odour• pH• Boiling point• Self ignition/Flammability• Exploding properties• Oxidising properties | Small granules (WG)
Light ivory
Odourless
7.2 (1% w/v water dispersion)
Not applicable
does not ignite/not flammable
No explosive properties
No oxidising properties |
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|------------------------|--------------------------|
| • Pour and Tap density | 0.499g/ml and 0.515 g/ml |
| • Solubility in water | Soluble |

10 STABILITY AND REACTIVITY

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| • 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

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| • Acute oral (LD50 rat): | > 2.4X10 ⁹ CFU/KG |
| • Dermal (LD50 rabbit): | > 4.6X10 ⁷ CFU/KG |
| • Inhalation (LC50 4h rat): | > 9.6X10 ⁹ CFU/KG |
| • Skin irritation (rabbit): | Non irritant |
| • Eye irritation (rabbit): | Non irritant |
| • Sensibilisation (guinea pig): | Not a sensitizer |

12 ECOLOGICAL INFORMATION

Lecanicillium muscarium is a beneficial fungus

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| • Soil: | DT50 : 4-5 days |
| • Water: | does not grow/survive in water |
| • Air: | UV light kills the spores of the fungi |
| • Ecotoxicology: | |
| Bird (5 d. LC50): | >1.2 x 10 ⁹ CFU/kg bw/day |
| Algae | no data available |
| Daphnia | > 3.8x10 ⁸ CFU/L |
| Fish (96 h. EC50) | > 6.2x10 ⁹ CFU/L |

13 INSTRUCTIONS FOR DISPOSAL

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| • 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. |

14 TRANSPORT INFORMATION

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

15 REGULATORY INFORMATION

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| • Labeling in accordance with EC Directive: | EFSA did not propose a classification |
| • Symbols and indications of danger | |

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regarding product:	No Symbol assigned
• Risk phrases:	None proposed
• Safety recommendations:	P280C Wear protective gloves and clothing P284 Wear respiratory protection EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
• 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.