

# Material Safety Data Sheet

(according to 2001/58/EC)



## MYCOTAL

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### 1 INFORMATION ON PRODUCT AND ON PRODUCER

1.1	Name of the product	MYCOTAL
1.2	Producer	Koppert BV
1.3	Address	Veilingweg 17 2651 BE Berkel en Rodenrijs, the Netherlands
1.4	Phone / Fax	+31-10-514 04 44/ +31-10-511 52 03
1.5	Information available from	Marketing / Productmanagement
1.6	Information in Case of Emergency	+31-10-514 04 44

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

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

### 3 HAZARDS IDENTIFICATION

3.1	Human health hazards	Irritating to respiratory system. Risk of serious damage to eyes. May cause sensitisation by skin contact.
3.2	Environmental hazards can be found as living organism in the environment.	None (see chapter 12); <i>Verticillium lecanii</i>

### 4 FIRST-AID MEASURES

4.1	Symptoms/effects	MYCOTAL can cause irritation and damage to the eyes. Irritant to the respiratory tract.
4.2	Inhalation Exposure	May cause sensitisation by skin contact. Move to fresh air. If symptoms persist, seek medical advice.
4.3	Skin Contact	Wash skin with soap and water. Seek medical advice if irritation occurs and persists.
4.4	Eye Contact	Rinse thoroughly with plenty of water for at least 10 minutes. Seek medical advice if irritation persists.
4.5	Ingestion	Seek immediate medical advice at complaints.

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### **5 FIRE FIGHTING MEASURES**

- |     |                                |  |
|-----|--------------------------------|--|
| 5.1 | Special exposure hazards       | Not known.   |
| 5.2 | Extinguishing Media            | Foam or water spray.   |
| 5.2 | Unsuitable extinguishing Media | Not applicable.  |
| 5.4 | Protective equipment           | Wear protective clothing, eye protection and self-contained respiratory equipment. |

### **6 ACCIDENTAL RELEASE MEASURES**

- |     |                           |   |
|-----|---------------------------|---|
| 6.1 | Personal precautions      | For personal precautions see Section 8.   |
| 6.2 | Environmental precautions | No specific recommendations.  |
| 6.3 | Methods for cleaning up   | Sweep up and collect waste substance carefully. Remove remainder waste material with water. Drain off rinse water to sewer.           |
| 6.4 | Additional Information    | Local authorities must be warned in case leakage can not be controlled. Take into account the local legislation. See also Section 13. |

### **7 HANDLING AND STORAGE**

- |     |                               |   |
|-----|-------------------------------|---|
| 7.1 | Handling                      | Avoid skin and eye contact and prevent inhalation. During handling the product, local legislation should be taken into account. |
| 7.2 | Fire and explosion prevention | The product is not combustible.   |
| 7.3 | Storage                       | Storage temperature: 2-6°C. Store dry in secure package.  |

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

- |     |                           |  |
|-----|---------------------------|--|
| 8.1 | Exposure limits           | None established. Because of the lack of occupational exposure limits, the following is recommended:               |
| 8.2 | Respiratory Protection    | In case of opening of the packing, blending/loading and spraying, wear preferably a filtermask with filtertype P3. |
| 8.3 | Hand protection           | Wear safety gloves (butylrubber, PVC)  |
| 8.4 | Eye Protection            | Wear closed eye protection (monogoggles)   |
| 8.5 | Other Protective Measures | Wear protective clothing. The usual precautions for handling chemicals should be considered.                       |

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

9.1	Appearance	Solid (powder)
9.2	Colour	Beige
9.3	Hygroscopicity	Moderate
9.4	Electrostaticity	Moderate
9.5	Solubility in water	0.33 g/ml
9.6	pH	6.75 (1% w/v aqueous dispersion)

### **10** STABILITY AND REACTIVITY

10.1	Stability	Stable during 6 months under recommended use and storage conditions.
10.2	Materials to avoid	Not applicable
10.3	Conditions to avoid	Avoid contact with heat or ignition sources.
10.3	Hazardous Decomposition Products	None.

### **11** TOXICOLOGICAL INFORMATION

11.1	Basis for assessment	Information given is based on data for the formulation (unless otherwise specified)
11.2	Acute toxicity oral	Low toxicity based on general clinical and macroscopical effects observed in animal experiments (based on non-formulated material).
11.3	Acute toxicity dermal	Data not available.
11.4	Acute inhalatory	LC <sub>50</sub> (rat) > 893 mg/m <sup>3</sup> . Low toxicity based on general clinical and macroscopical effects observed in animal experiments. Slight to moderate pulmonary damage/irritation (whether or not by infection) can not be excluded.
11.5	Skin irritation	Not irritating.
11.6	Eye irritation	Risk of serious damage to eyes.
11.7	Skin sensitisation	May cause skin sensitisation.
11.8	Human effects	See Section 4 for information on the toxic effects of the formulation. One should take into account the possibility irritating properties of MYCOTAL to the eye.

### **12** ENVIRONMENTAL INFORMATION

12.1	Basis for assessment	Information given is based on exotoxicological knowledge of MYCOTAL.
12.2	Mobility	Does not penetrate the soil (based on B.B.A. Merkblatt No.37)
12.3	Persistence / degradability	Readily biodegradable in soil (based on B.B.A. Merkblatt No. 36)

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12.4	Bioaccumulation	Data not available. When used as recommended, MYCOTAL is not released to the surface water.
12.5	Acute toxicity to aquatic organisms	Low toxicity to fish: LD <sub>50</sub> > 1000 mg/l (based on MYCOTAL formulated product, containing 3.8-7.9 x 10 <sup>6</sup> spores/ml). Algae: data not available Daphnia: data not available  The chance of exposure is low, rendering the risk to aquatic organisms nil.


### **13 INSTRUCTIONS FOR DISPOSAL**

13.1	Precautions	Wear suitable protective apparatus and clothing.
13.2	Product disposal	Incinerate or dispose to licensed disposal contractor.
13.3	Packaging	If the product is disposed, the recipient should be informed of the possible hazards of the product.
13.4	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 IATA.

### **15 REGULATORY INFORMATION**

15.1	EC classification	Xi; Irritant
15.2	EC symbols	<b>Xi</b> 
15.3	EC Risk phrases	R37: Irritating to respiratory system. R41: Risk of serious damage to eyes R43: May cause sensitisation by skin contact.
15.4	EC Safety phrases	S2: Keep out of the reach of children. S13: Keep away from food, drink and animal feedingstuffs.. S20/21: When using do not eat, drink or smoke.

S26: In case of contact with eyes, rinse

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		immediately with plenty of water and seek medical advice.
	S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
	S42:	During opening of the packing, blending/loading and spraying, wear preferably a filtermask with filtertype P3.
15.5	EC-numbers	All present chemical substances on EINECS.

### **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 organisation. 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.