Date	29.4.2009		Former date: 26.10.2006		
1.	IDENTIFICA	TION OF THE SUBSTANCE/E	PREPARATION A	ND OF THE COMPANY/UNDERTAKING	
1.1	Identification of the substance or preparation				
	Trade name Mycostop				
	Reach regis	tration number le			
1.2	Use of the substance/preparation				
1.2.1		ses of the chemical gicide for the control of wilt and root diseases in turf, vegetables, ornamentals and herbs.			
1.2.2	Classification of economic activities (NACE)		CE) A	011	
1.2.3	Use categories (UC62)		PI	ant Protection Products 38	
1.2.4	The chemical can be used by the general pu		l public 🗆		
1.2.5	The chemical is used by the general public only		lic only		
1.3	Company/undertaking identification				
1.3.1	Manufacturer, importer, other undertaking VERDERA OY				
1.3.2	Contact information:				
	Street addre	ess	Kur	jenkellontie 5 B	
	Postcode and post office		FI-0	FI-02270 ESPOO	
	Post-office box		5	5	
	Postcode a	nd post office	FI-(FI-02271 ESPOO	
	Telephone i	number		358 10 217 3700	
	Telefax		+358 10 217 3711		
	E-mail address				
	Y code 0220917-4			0917-4	
1.3.3	Information on the foreign manufacturer				
1.4	Emergency telephone				
1.4.1	Telephone number, name and address				
2.	HAZARDS IDENTIFICATION				
May cause sensitization by inhalation and skin contact.					
3.	COMPOSITION AND INFORMATION ON INGREDIENTS				
3.1	Hazardous i	<u> </u>		24401 15 15 1 1 1 1 1	
3.1.1 CAS/EC number and the		3.1.2 Name of the ingredient	3.1.3 Concentration	3.1.4 Classification (symbol letters and R phrases) and other data on the	
Registration number		ing calone	Concentiation	ingredient	
Reg. number in Finland 1603		Dried spores and mycelium of Streptomyces strain K61	1E08 cfu/1g of the product	Xn, R42/43	
3.1.5 There has been a request for confidentiality of a substance according to Annex 2 of the decree 3.1.6 A substance not dangerous has been indicated as confidential 3.1.7 Other information					

INFORMATION FORM FOR CHEMICALS

DATA

☒ SAFETY DATA SHEET

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FIRST AID MEASURES

4.1 Special instructions

- - -

4.2 Inhalation

4.

Remove from exposure to fresh air. Obtain medical attention.

4.3 Skin contact

Wash off immediately with soap and plenty of water.

If skin irritation persists, call a physician.

4.4 Eye contact

Rinse immediately with plenty of water for at least 15 minutes.

If eye irritation persists, consult a physician.

4.5 Ingestion

Immediately give plenty of water. Never give anything by mouth to an unconscious person. Induce vomiting immediately and call a physician.

4.6 Information for a doctor or other professionals giving first aid

- - -

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water

5.2 Extinguishing media which shall not be used for safety reasons

- - -

5.3 Special exposure hazards in a fire

- - -

5.4 Special protective equipment for fire-fighters

In case of fire, wear a self contained breathing apparatus and a protective suit.

5.5 Other instructions

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid contact with skin, eyes and clothing.

Use personal protective equipment.

6.2 Environmental precautions

The active substance is a common, naturally occurring soil microbe.

6.3 Methods for cleaning up

Use personal protective equipment. Pick-up and arrange disposal without creating dust. Shovel into suitable container for disposal. Dispose of in compliance with local and national regulations.

6.4 Other instructions

- - -

7. HANDLING AND STORAGE

7.1 Handling

Avoid contact with skin, eyes and clothing. Do not breathe dust/spray mist. Wear personal protective clothing, gloves and eye/face protection when handling the product. Wash hands and face with soap and water before breaks and after handling the product.

Do not use as a tank mixture with chemical pesticides.

7.2 Storage

Keep unopened in a dry and cool place at temperatures below

+ 8 °C. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific use(s)

- - -

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.1.1 HTP values (in Finland)

Organic dust, HTP (8h) = 5 mg/m3 (Finland), HTP (15 min) = 10 mg/m3 (Finland)

8.1.2 Other limit values

- - -

8.1.3 Limit values in other countries

Particulates Not Otherwise Specified, TLV = 10 mg/m³ (TWA, E, I) USA, TLV = 3 mg/m³ (TWA, E, R) USA, Allgemeine Stäube, MAK = 4 mg/m³ (E) Germany

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8.1.4 **DNELs**

- - -

8.1.5 **PNECs**

- -

8.2 Exposure controls

8.2.1 Occupational exposure controls

Avoid exposure.

8.2.1.1 Respiratory protection

Wear suitable respiratory equipment: respirator with combination filter for vapour/particulate (A + P2).

8.2.1.2 Hand protection

Rubber or plastic gloves (e.g. nitrile).

8.2.1.3 Eye protection

Gogales or face-shield.

8.2.1.4 Skin protection

Suitable protective clothing (protective suit, rubber boots, hat).

8.2.2 Environmental exposure controls

- - -

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (physical state, colour and odour)

Yellowish powder, odour of soil

9.2 Important health, safety and environmental information

9.2.1 pH

Approx. 7

9.2.2 Boiling point/boiling range

Not applicable

9.2.3 Flash point

Not applicable

9.2.4 Flammability (solid, gas)

Not applicable

9.2.5 Explosive properties

Not applicable

9.2.6 Oxidising properties

Not applicable

9.2.7 Vapour pressure

Not applicable

9.2.8 Relative density

Approx. 500 kg/cu.m.

9.2.9 Solubility

Insoluble

9.2.10 Water solubility

Insoluble

9.2.11 Partition coefficient: n-octanol/water

Not applicable

9.2.12 Viscosity

Not applicable

9.2.13 Vapour density

Not applicable

9.2.14 Evaporation rate

Not applicable

9.3 Other information

- - -

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

High temperatures (>30 Celsius degrees), UV-light, irradiation

10.2 Materials to avoid

Acids, bases, concentrated fertilizer liquids, chemical pesticides, food, drink, animal feeding stuffs.

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10.3 Hazardous decomposition products

Not applicable

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50/oral/rat: Not toxic or pathogenic to rat exposed to > 15 g/kg.

Inhalation: Not toxic or pathogenic to rat exposed to 108 cfu/animal.

11.2 Irritation and corrosivity

Mild eye irritation (reversible within 2 days).

No skin irritation.

11.3 Sensitisation

May cause sensitization by inhalation and skin contact.

11.4 Sub-acute, sub-chronic and prolonged toxicity

Not toxic or pathogenic to rat in 28 d subchronic study

(no-observed-effect level (NOEL) = 1000 mg/kg/day).

11.5 Human health effects based on experience

May cause sensitization. No adverse effects observed when used according to the instructions.

11.6 Other information on health effects

- - -

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity

Not toxic or pathogenic to fish, (no-observed-effect level (NOEL) = 5E+04 cfu/ml, Rainbow trout).

Not toxic or pathogenic to daphnia, (no-observed-effect level (NOEL) = 1E+04 cfu/ml, Daphnia magna).

12.1.2 Toxicity to other organisms

Not toxic or pathogenic to bird, (LD50 > 2500 mg/kg Bobwhite quail, Mallard duck).

Not toxic or pathogenic to honeybee (LD50 > 2400 ppm).

Not toxic or pathogenic to earthworm (LC50 > 1000 ppm).

12.2 Mobility

Streptomyces ray bacterium is a natural inhabitant in soil.

12.3 Persistence and degradability

12.3.1 Biodegradation

Like other naturally occurring soil microbes.

12.3.2 Chemical degradation

Like other naturally occurring soil microbes.

12.4 Bioaccumulative potential

Do not accumulate

12.5 Results of PBT assessment

- - -

12.6 Other adverse effects

- - -

13. DISPOSAL CONSIDERATIONS

Packagings can be landfilled or incinerated, when in compliance with local and national regulations. Wastes can be landfilled, when in compliance with local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number

. _ .

14.2 Packing group

- - -

14.3 Land transport

14.3.1 Transport class

Not classified as dangerous in the meaning of transport regulations.

14.3.2 Risk code

- - -

14.3.3 Name according to bill of freight

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Mycostop

14.3.4 Other information

14.4	Sea transport
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14.4.1 **IMDG class**

Not classified as dangerous in the meaning of transport regulations.

14.4.2 Correct technical name

Mycostop

14.4.3 Other information

14.5 Air transport

14.5.1 ICAO/IATA class

Not classified as dangerous in the meaning of transport regulations.

14.5.2 Correct technical name

Mycostop

14.5.3 Other information

15. **REGULATORY INFORMATION**

15.1 Information on the label

15.1.1 Danger symbols (letters) and indications of danger

Xn. harmful

15.1.2 Substances to be named on the label

Dried spores and mycelium of Streptomyces strain K61

15.1.3 R phrases

R42/43 May cause sensitization by inhalation and skin contact.

15.1.4 S phrases

> S2 Keep out of reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

Do not breath dust. **S22**

S24 Avoid contact with the skin.

Wear suitable protective clothing, gloves and eye/face protection. S36/37/39 **S38** In case of insufficient ventilation, wear suitable respiratory equipment. **S45**

In case of accident or if you feel unwell, seek medical advice immediately

(show label where possible).

Special provisions concerning the labelling of certain preparations 15.1.5

15.1.6 Chemical Safety Assessment has been carried out for the following substances

15.2 National regulations

16. **OTHER INFORMATION**

16.1 List of relevant R phrases

R42/43 May cause sensitization by inhalation and skin contact.

16.2 Training advice

Recommended restrictions on use 16.3

16.4 **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Verdera Oy disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.

16.5 Sources of key data used to compile the Safety Data Sheet

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Regulations, databases, literature, own tests Information which has been added, deleted or revised 16.6