

Date: 24.1.2011

Former date: 20.5.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the substance or preparation**

Trade name

Prestop

Code of the preparation

Reach registration number

Not applicable.

1.2 Use of the substance/preparation**1.2.1 The uses of the chemical**

Prestop contains spores and mycelium of a natural soil fungus.

The product is used for the protection of vegetable, herb and ornamental plants and strawberry from Botrytis grey mould, as well as damping off and root diseases caused by fungal pathogens, such as Pythium, Phytophthora and Rhizoctonia, and for the control of Didymella gummy stem blight in cucumber. Use for other purposes is prohibited.

1.2.2 Classification of economic activities (NACE) A 011**1.2.3 Use categories (UC62)** Plant Protection Products 38**1.2.4 The chemical can be used by the general public** **1.2.5 The chemical is used by the general public only** **1.3 Company/undertaking identification****1.3.1 Manufacturer, importer, other undertaking**

VERDERA OY

1.3.2 Contact information:**Street address**

Kurjenkellontie 5 B

Postcode and post office

FI-02270 Espoo, FINLAND

Post-office box

5

Postcode and post office

FI-02271 Espoo, FINLAND

Telephone number

+358 10 217 3726

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E-mail address**Y code**

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Fax 01903 730737

Email info@fargro.co.uk

1.3.3 Information on the foreign manufacturer

1.4 Emergency telephone**1.4.1 Telephone number, name and address**

2. HAZARDS IDENTIFICATION

3. COMPOSITION AND INFORMATION ON INGREDIENTS**3.1 Hazardous ingredients**

3.1.1 CAS/EC number and the Registration number	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 ingredient
Reg. number in Finland 2956	Dried spores and mycelium of Gliocladium catenulatum J1446	1E08 cfu/1g of the product	--

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

4. FIRST AID MEASURES**4.1 Special instructions**

4.2 Inhalation

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

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- 8.1.4 **Particulates Not Otherwise Specified, TLV = 10 mg/m³ (TWA, E , I) USA, TLV = 3 mg/m³ (TWA, E, R) USA, Allgemeine Stube, MAK = 4 mg/m³ (E) Germany**
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

Goggles 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)

Pale powder, mild

9.2 Important health, safety and environmental information

9.2.1 pH

Approx. 7 (1% suspension)

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

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10.3 Acids, bases, concentrated fertilizer liquids, chemical pesticides, food, drink, animal feeding stuffs.
Hazardous decomposition products
Not applicable.

11. TOXICOLOGICAL INFORMATION

- 11.1 **Acute toxicity**
LD50/oral/rat > 2 g/kg.
LD50/dermal/rat > 2 g/kg.
Inhalation: Not toxic or pathogenic to rat.
The tests were carried out with a product closely related to Prestop.
- 11.2 **Irritation and corrosivity**
Mild eye irritation.
The tests were carried out with a product closely related to Prestop.
- 11.3 **Sensitisation**
May cause sensitization by skin contact. The tests were carried out with a product closely related to Prestop.
- 11.4 **Sub-acute, sub-chronic and prolonged toxicity**
No data available.
- 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**
Active ingredient:
LC50/30d/rainbow trout = $3.5 \cdot 10^8$ cfu/L (504 mg/L)
EC50/21d/daphnia = $5.5 \cdot 10^6$ cfu/L (7.8 mg/L)
- 12.1.2 **Toxicity to other organisms**
- - -

12.2 Mobility

Gliocladium catenulatum -fungus is a natural habitant of 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**
Prestop

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14.3.4 Other information

14.4 Sea transport

14.4.1 IMDG class

Not classified as dangerous in the meaning of transport regulations.

14.4.2 Correct technical name

Prestop

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

Prestop

14.5.3 Other information

15. REGULATORY INFORMATION

15.1 Information on the label

15.1.1 Danger symbols (letters) and indications of danger

According to CRD the product is not classified.

15.1.2 Substances to be named on the label

Dried spores and mycelium of Gliocladium catenulatum J1446

15.1.3 R phrases

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15.1.4 S phrases

S2	Keep out of reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S22	Do not breath dust.
S24	Avoid contact with the skin.
S29	Do not empty into drains.
S37	Wear suitable gloves.

15.1.5 Special provisions concerning the labelling of certain preparations

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

16.2 Training advice

16.3 Recommended restrictions on use

Prestop is not recommended for unrooted cuttings of woody ornamentals.
Microorganisms may have the potential to provoke sensitising reactions.

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

Regulations, databases, literature, own tests

16.6 Information which has been added, deleted or revised

According to CRD decision the product is not classified, hence the Hazard symbol Xi and the R43-phrase have been removed.