

Ref.: 1718/3.0/GB/EN Revision Date: 08.01.2007

SAFETY DATA SHEET

Prestop EPA Reg. No. 64137-11

Previous date: 18.04.2006

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name

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Use of the Substance/Preparation

Expressed in writing

Prestop contains spores and mycelium of a natural soil fungus. The product is used for the protection of vegetable, herb and ornamental crops from grey mold, damping off and root diseases as well for the control of gummy stem blight in cucumber.

Use for other purposes is prohibited.

Company/Undertaking Identification

Manufacturer, importer, supplier

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COMPOSITION/INFORMATION ON INGREDIENTS 2. Hazardous components CAS number Chemical name of the Concentration Warning symbol, R phrases or other substance and other information code $>10^7$ cfu/g Dried spores and mycelium of Xi. R 43 Gliocladium catenulatum **Further information** Gliocladium catenulatum fungus, a naturally occurring living microorganism. 3. **HAZARDS IDENTIFICATION** May cause sensitization by skin contact. **FIRST AID MEASURES** 4.

Additional advice

Inhalation

Remove from exposure to fresh air. Obtain medical attention.

Skin contact

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion

Immediately give plenty of water. Never give anything by mouth to an unconscious person. Induce



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vomiting immediately and call a physician.

5. FIRE-FIGHTING MEASURES Suitable extinguishing media Water Extinguishing media which must not be used for safety reasons ---Special exposure hazards in a fire ---Special protective equipment for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental precautions

The active ingredient is a common naturally occurring soil microbe.

Methods for cleaning up

Use personal protective equipment. Pick-up and dispose of without creating dust. Dispose of in compliance with local and national regulations.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. 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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Exposure limit(s): Organic dust HTP (8h) = 5 mg/m^3 (Finland) HTP (15 min) = 10 mg/m^3 (Finland)

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

Exposure controls

Occupational exposure controls

Avoid exposure.

Respiratory protection

Wear suitable respiratory equipment: Half mask with a particle filter P2.

Hand protection



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Rubber or plastic gloves (e.g. PVC, neoprene).

Eye protection

Goggles or face-shield.

Skin and body protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information (appearance, odour)

powder; pale; mild

Important Health Safety and Environmental Information

рН	ca 7 (1% solution)
Boiling point/range	not applicable
Flash point	not applicable
Explosive properties	
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Relative density	ca 0.5
Solubility	
Water solubility	insoluble
Fat solubility (solvent - oil to be specified)	insoluble
Partition coefficient (n- octanol/water)	not applicable
Viscosity	not applicable

10. STABILITY AND REACTIVITY

Conditions to avoid

High temperatures.

Materials to avoid

Food, drink and animal feeding stuffs.

Hazardous decomposition products

not applicable

11. TOXICOLOGICAL INFORMATION

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.

Irritation and corrosion

Mild eye irritation. The tests were carried out with a product closely related to Prestop.

Sensitisation

May cause sensitization by skin contact. The tests were carried out with a product closely related to Prestop.

Subacute, subchronic and prolonged toxicity



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no data available

Human experience

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

ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity

Active indgredient: $LC50/30d/rainbow trout = 3.5*10^{8} cfu/L$ (504 mg/L) $EC50/21d/daphnia = 5.5*10^{6} cfu/L$ (7.8 mg/L)

Mobility

Gliocladium catenulatum fungus is a natural habitant of soil.

Persistence / degradability

Biological degradability

Like other naturally occurring soil microbes.

Bioaccumulative potential

Do not accumulate.

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

Land transport	
ADR/RID	Not classified as dangerous in the meaning of transport regulations.
Sea transport	
IMDG	Not classified as dangerous in the meaning of transport regulations.
Air transport	
ICAO/IATA	Not classified as dangerous in the meaning of transport regulations.

15. **REGULATORY INFORMATION**

Classification according to European directive on classification of hazardous preparations 90/492/EEC. Information on the warning label

Letter code of the warning symbol and indications of danger for the preparation

Xi Irritant

Names of the ingredients given on the warning label

Dried spores and mycelium of Gliocladium catenulatum.

R-phrase(s)

R43

- May cause sensitization by skin contact. S-phrase(s)
- S2 Keep out of reach of children.
- S13 Keep away from food, drink and animal feeding stuffs.
- S22 Do not breathe dust.
- S24 Avoid contact with the skin.



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S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R43 May cause sensitization by skin contact.

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.

Literary reference

Regulations, databases, literature, own tests.