

PRESTOP®

MAPP 17223
PCS 04367

PRESTOP® is a biofungicide for moderate control of gummy stem blight (*Didymella* sp.), grey mould (*Botrytis* sp.), damping-off and root diseases caused by *Pythium*, *Phytophthora*, *Rhizoctonia* and *Fusarium* spp. on all edible crops and all non-edible crops (protected) and outdoor strawberry. It can be applied via drip irrigation, by growing media incorporation, as a drench treatment or as a foliar spray treatment.

This product is a biofungicide: a 32 % w/ w wettable powder containing a nominal 2×10^9 cfu/ g product of the micro-organism, *Glilotadium catenulatum* strain J1446.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work (UK only).

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/ HORTICULTURAL FUNGICIDE

USER: Professional

Crops/ situations	Maximum individual dose	Maximum total dose	Maximum number of treatments	Latest time of application
Strawberry	6 kg product/ ha	-	3 per crop (see Other Specific Restriction 1)	Before the end of flowering
All edible crops (protected), all non edible crops (protected)	500 g product/m ³ compost or soil (incorporated into growing medium)	-	1 per batch of growing medium	-
	AND/ OR	-	-	-
	See Other Specific Restriction 2 (applied as a spray/ drench)	-	See Other Specific Restriction 3	-

Other Specific Restrictions:

- 1) A minimum interval of 7 days must be observed between applications.
- 2) The maximum concentration must not exceed 500 g product per 100 litres water when applied as a spray or drench.
- 3) A minimum interval of 3 weeks must be observed between applications to crops other than strawberry.

To avoid risks to human health and the environment, comply with the instructions for use.

SAFETY PRECAUTIONS

Operator protection

- Wear suitable protective clothing (coveralls), suitable gloves and respiratory protective equipment* when handling the concentrate or applying the product. *With disposable respirator filter to at least EN 149 PPF2 or equivalent.
- However, engineering controls may replace personal protective equipment if a COSHH assessment (UK only) shows they provide an equal or higher standard of protection.
- If exposed or if you feel unwell: immediately call a POISON CENTER or doctor/physician.
- Do not eat, drink or smoke when using the product.
- Do not get in eyes or on skin.
- IF ON SKIN or IF IN EYES: Rinse cautiously with water for several minutes.
- Wash hands and exposed skin thoroughly after handling.

Environmental protection

- Do not contaminate water with the product or its container (do not clean application equipment near surface water/ avoid contamination via drains from farmyards and roads).

Storage and disposal

- Keep away from food, drink and animal feedstuffs.
- Keep out of reach of children.
- Store in a closed container in a dry place.
- Dispose of contents and container in accordance with local and national waste regulations: Wash out container thoroughly, and dispose of safely.

STORE BELOW +4 °C

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AICL

CONTENTS: **1** kg

LALLEMAND
LALLEMAND PLANT CARE

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DIRECTIONS FOR USE

Operator protection

IMPORTANT: This information is approved as part of the product label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

PRESTOP® is a biofungicide: a 32 % w/w wettable powder containing a nominal 2×10^8 cfu/g product of the micro-organism, *Gliocladium catenulatum* strain J1446, a selected strain of a naturally occurring soil fungus. PRESTOP® is not genetically manipulated.

Restrictions and warnings

- Not to be used on unrooted cuttings.
- Micro-organisms may have the potential to provoke sensitising reactions.

Crop recommendations

PRESTOP® is for use on all edible crops and all non-edible crops (protected) and outdoor strawberry.

Disease control

PRESTOP® has multiple modes of action against gummy stem blight (*Didymella* sp.) on cucumber, grey mould (*Botrytis* sp.) and damping-off and root diseases caused by *Pythium*, *Phytophthora*, *Rhizoctonia* and *Fusarium* spp. on all edible crops and all non-edible crops (protected) and outdoor strawberry.

- the *Gliocladium* sp. fungus deprives plant pathogenic fungi of living space and nourishment by colonizing plant roots or foliage in advance of the pathogens.
- the *Gliocladium* sp. fungus acts as a hyperparasite on harmful fungi by producing enzymes, which break down the cell walls of the pathogenic fungi.

Best conditions for product

PRESTOP® should be used preventatively, so that the *Gliocladium* sp. fungus has enough time to colonize plant roots or foliage prior to the pathogens.

CROP SPECIFIC INFORMATION

FOLIAR APPLICATIONS

PRESTOP® gives moderate control of gummy stem blight (*Didymella* sp.) on cucumber, and grey mould (*Botrytis* sp.) on tomato, pepper, cucumber and strawberry, ornamentals and seedling production of all edible crops and all non-edible crops (protected) and outdoor strawberry.

Apply as a high volume foliar spray to ensure thorough coverage of the foliage, paying particular attention to stems when applying for *Didymella* sp. and wounds when applying for *Botrytis* sp.

TIMING

- **Tomato, pepper and cucumber:** apply the first treatment soon after transplanting or at the latest immediately after de-leafing and reapply every 3-4 weeks.
- **Ornamentals and seedling production of all edible crops and all non-edible crops (protected):** treat cuttings at striking and seedlings at emergence, repeat at 3 to 4 week intervals.
- **Strawberry:** one to three applications as foliar spray at 0.5% or 0.6 g/ m² (equivalent to 6.0 kg product/ ha) with a seven day spray interval, at growth stages BBCH > 61 (at flowering).

MIXING AND SPRAYING

Apply at the rate of 500 g per 100 litres (0.5%). First cream the PRESTOP® powder with a small amount of water (e.g. 1 litre), then agitate carefully until evenly mixed after which dilute to the final concentration. Apply at high volume. As a guide for tomato, pepper and cucumber use 10 litres of PRESTOP® suspension per 500 plants, and for strawberries use 1,200 litres of the suspension per hectare at one application. Apply at high volume to just before run-off, ensuring thorough coverage of the crop.

Compatibility

PRESTOP® is a biological fungicide and may be affected by residues of or subsequent applications of other pesticide products. Consult the manufacturer or distributor regarding compatibility of other chemical or microbial products within a pest or disease control programme.

Do not tank-mix PRESTOP® with any chemical pesticides or concentrated fertilizer solutions. PRESTOP® does not harm beneficial insects and can be used in integrated pest and disease control systems.

PRESTOP® has been used on a wide range of crops under a range of conditions and no phytotoxicity has been observed.

PRESTOP® is a registered trademark of Verdera Oy, Finland.

Batch number and production date printed/stamped on product package.

GROWING MEDIA APPLICATIONS

For the moderate control of damping-off and root diseases caused by *Pythium*, *Phytophthora*, *Rhizoctonia* and *Fusarium* spp. on all edible crops and all non-edible crops (protected) and outdoor strawberry. PRESTOP® may be applied by spraying or drenching, through drip irrigation or by mixing into the growing medium.

TIMING

PRESTOP® should be used preventatively. Treat growing media at sowing, transplanting and/ or planting stage. Repeat the treatment at the intervals of 4 to 6 weeks. Use the shorter interval under conditions of moderate to high disease pressure.

MIXING AND APPLICATION

PRESTOP® must always be used as an aqueous suspension. First cream the PRESTOP® powder with a small amount of water (e.g. 1 litre), then agitate carefully until evenly mixed after which dilute to the final concentration. Drench treatments may be applied via drip irrigation systems through a mixing tank or via a separate injection pump.

- **Drench of cucumber, tomato, pepper, strawberry and ornamentals:** apply 200 g to 250 g of PRESTOP® (0.5 %) per 1,000 plants.
- **Drenching of small seedlings:** use 5-10 g of PRESTOP® / m² in 1-2 litres of water/ m² (0.5%).
- **Drench of individual root balls and pot plants:** apply 20 - 500 g of PRESTOP® (0.5%) per 1,000 plants, depending on the size (100 ml – 1 l) of the root ball / pot.
- **Growing media incorporation:** when incorporating PRESTOP® into the growing medium use 200-500 g of PRESTOP® per 1,000 litres of the medium. Mix the powder first with water in order to make sure of a uniform distribution of the product into the medium.

Always adjust the volume of water according to the moisture content of the growing media. Use the higher rate of PRESTOP® in the case of a risk for high disease pressure or big root volume. The lower rate is used when mild disease infection is expected, or for small root volume.

Resistance

PRESTOP® has not been reported to have to cause any disease resistance. However, it is good practice to use such products as components of Integrated Pest Management (IPM) systems, alternating with other control measures. This is particularly important for sequential crops.

Storage

PRESTOP® is a biological preparation containing dried living fungal spores and mycelium. PRESTOP® will keep unopened for one year if stored in cool, dry conditions below +4 °C. Since PRESTOP® powder is hygroscopic, it is recommended to use the whole contents of the package immediately once opened to prevent caking of the product. Alternatively, the opened package can be closed tightly and put in the freezer until the rest of the powder will be used.

STORE BELOW +4 °C



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