



Protect

BIOLOGICAL FUNGICIDE

# PRESTOP®



PRESTOP contains mycelia and spores of *Gliocladium catenulatum* Strain J1446, a naturally occurring soil fungus, which is capable of providing a number of very useful disease control benefits to a wide range of cropping situations.

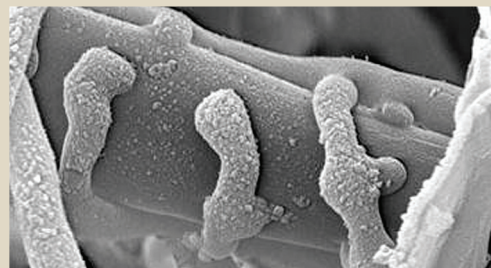
## PRESTOP can give effective control of a wide variety of plant pathogens:

- Grey mould and stem cankers caused by *Botrytis cinerea* on leafy crops, tomatoes, peppers, cucumbers, aromatic plants, ornamentals and strawberries.
- Gummy stem blight caused by *Didymella sp.* on cucumbers.
- Damping-off and root or base rot diseases caused by *Pythium*, *Rhizoctonia*, *Phytophthora* and *Fusarium spp.* on vegetables, salads, aromatic plants and ornamentals.

## Mode of action

The fungus *Gliocladium catenulatum* Strain J1446

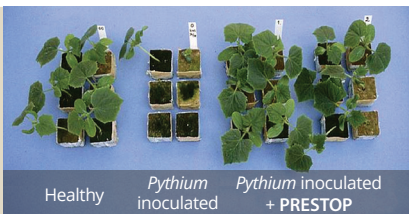
- acts as a hyperparasite and produces enzymes, which cause the breakdown of cell walls of plant pathogens.
- deprives pathogenic fungi of living space and nourishment by colonizing the surface of roots and aerial parts of the plants.



*G. catenulatum* parasitizing hypha of *Rhizoctonia solani*.

## PRESTOP

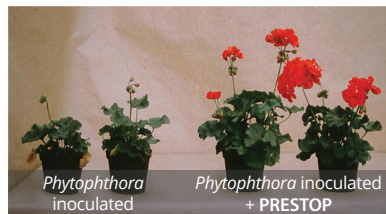
in the control of *Pythium* damping-off on cucumbers.



Healthy

*Pythium* inoculated

*Pythium* inoculated + PRESTOP



*Phytophthora* inoculated

*Phytophthora* inoculated + PRESTOP

## PRESTOP

in the control of *Phytophthora* on pot plants.



# PRESTOP® Application

PRESTOP is a wettable powder which, when mixed with water, can be applied:

- via mixing into growing media (both organic and inorganic based types).
- via drenching or soil and growing medium spraying.
- via irrigation systems including drip irrigation.
- via foliar spraying.

The most efficient way to use PRESTOP is preventatively. The active substance is a micro-organism which survives in the rhizosphere and on the foliage of plants for several weeks, protecting them against pathogens.

## PRESTOP in the control of damping-off and root/base rot diseases (*Pythium*, *Rhizoctonia*, *Phytophthora*, *Fusarium*):

- For drenching or soil spray applications
  - use PRESTOP at 5 - 10 g/m<sup>2</sup> or 200 - 250 g/1000 plants.
- In growing media incorporation
  - use 200 - 500 g of PRESTOP/m<sup>3</sup> (1,000 Litres).

Use the higher rate where higher disease pressure is expected.

Repeat the treatment at intervals of 4-6 weeks.

## PRESTOP in the control of *Botrytis*:

- For foliar spraying
  - use 0.5% PRESTOP suspension (100 g/20 L of water).

Repeat the spray treatment every 3-4 weeks, depending on need.

Available in 1 kg bags



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## Doses

Crops	Uses	Doses
Strawberry	Foliar spray <i>Botrytis</i>	6 kg/ha
Tomato, cucumber, pepper	Foliar spray <i>Botrytis</i> and <i>Didymella</i>	100 g/1000 plants
Seedling production of ornamentals, vegetables and aromatic plants	Soil treatment Damping-off <i>Pythium</i> <i>Rhizoctonia</i> <i>Fusarium</i>	200 - 500 g/m <sup>3</sup> by mixing into the growing medium. 5 - 10 g/m <sup>2</sup> by drenching
Vegetables and ornamentals	Soil treatment Root/Base diseases <i>Pythium</i> <i>Phytophthora</i> <i>Rhizoctonia</i> <i>Fusarium</i>	200 - 250 g/1000 plants by drip irrigation or drenching

Additional benefit against other diseases such as *Plasmodiophora brassicae* (clubroot) in brassica crops, sclerotinia, thielaviopsis, helminthosporium, verticillium, penicillium and alternaria species can also be expected.

## Compatibility

PRESTOP is safe to humans, the environment and beneficial organisms when used as directed. It is compatible with many chemical pesticides and can be used in Integrated Pest Management (IPM) programmes.

Before mixing with plant protection products, consult the NAD technical team.

For other rates, water volumes, timings and restrictions of application read the label or speak to the NAD team

After use, clean application equipment with water or dilute detergent solution and thoroughly rinse three times. Caution: All microbial organisms have the potential to cause a reaction in sensitive individuals, usually expressed as a mild irritant, although most individuals will see no reaction. PRESTOP contains *Gliocladium catenulatum* Strain J1446. PRESTOP is a registered trademark of LALLEMAND PLANT CARE.

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PLEASE USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE. PAY ATTENTION TO THE RISK INDICATIONS AND FOLLOW THE SAFETY PRECAUTIONS ON THE LABEL.