



# BIOFUNGICIDE

*Clonostachys rosea* strain J1446



# PRESTOP®

Broad spectrum disease controlling biofungicide

## Fight effectively against above ground-diseases and root or base-rot diseases

PRESTOP® contains a high concentration of mycelia and spores of *Clonostachys rosea*\* strain J1446, a naturally occurring soil fungus, selected for its capacity to control a range of very important crop diseases.

\*previously known as *Gliocladium catenulatum*.



WETTABLE POWDER

## MODES OF ACTION

*Clonostachys rosea* strain J1446 operates through several useful modes of action:

**1 COMPETITION :** quick colonisation of root and aerial parts of the plants depriving pathogenic fungi of living space and nourishment.

**2 SAPROPHYTISM:** rapid development on dead plant tissues which can seal wounds and provide an effective physical barrier protecting against the entrance of pathogenic organisms.

**3 HYPERPARASITISM:** production of enzymes which cause the breakdown of cell walls of plant pathogens.

*Rapidly growing mycelium of C. rosea J1446*

*C. rosea J1446 parasitising Rhizoctonia solani*

## BENEFITS

- **Against grey mould and stem cankers** caused by *Botrytis cinerea* on leafy crops, tomatoes, peppers, cucumbers, aromatic plants, ornamentals, strawberries and other soft fruit.
- **Against gummy stem blight** caused by *Didymella* sp. on cucumbers.
- **Against damping-off and root or base rot diseases** caused by *Pythium*, *Phytophthora*, *Rhizoctonia* and *Fusarium* on vegetables, salads, aromatic plants and ornamentals.

## ADVANTAGES

- **Broad spectrum of use**
- **Several modes of action:** low risk of resistance
- **Persistence of action :** 3 to 4 weeks on the foliage and 4 to 6 weeks in the soil and growing media
- **Environmental profile:**
  - without toxicological classification
  - usable in organic farming and zero residue programmes

# PRESTOP®

## APPROVED USES

Crops	Maximum individual dose	Maximum total dose	Maximum number of treatments	Latest time of application
Strawberry (Protected & Outdoor)	6 kg/ha	—	3 per crop See <a href="#">Other Specific Restriction 1</a>	Before the end of flowering
All Protected Edible Crops	500 g/m <sup>3</sup> compost or soil (incorporated into growing medium)	—	—	—
All Protected Non Edible Crops	500 g/m <sup>3</sup> compost or soil (incorporated into growing medium)	—	1 per batch of Growing Medium	—
All above See <a href="#">Other Specific Restriction 2</a>	500 g/100 L water (applied as a spray/drench)	—	—	—

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.

Information provided above is compiled from details within the AUTHORISATION FOR A PLANT PROTECTION PRODUCT (PPP), PPP REGULATION (EC) N°1107/2009, Authorisation N° 0769 of 2020, MAPP N° 19458 (Registration holder: Danstar Ferment AG).

There is a wide ranging Extension of Authorisation for Minor Use (EAMU) in the UK (Number: 1352/20 under MAPP Number: 19458) for PRESTOP®.

It is essential that the finer details of the EAMU are studied with great care in order to guide exactly how to use the product correctly.

## PREPARATION

 <p><b>1</b></p>	 <p><b>2</b></p>
Fill half of the delivery system tank with clean water. Start the agitation mechanism and continue running it until and during the spraying operation.	Slowly pour the contents of the PRESTOP® bag(s) into the delivery system tank. Refer to the product label for the correct quantity required.
 <p><b>3</b></p>	 <p><b>4</b></p>
Top up the delivery system tank with clean water.	Keep mixing during application to maintain the product in suspension.

Authorization holder: DANSTAR FERMENT A.G.

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## CHARACTERISTICS

- **ACTIVE INGREDIENT:** *Clonostachys rosea* J1446 2.10<sup>8</sup> CFU\*/g  
*\*CFU: Colony Forming Unit. Unit of measure for living microorganisms able to multiply*
- **FORMULATION:** wettable powder (WP)
- **PACKAGING:** 1 kg
- **STORAGE:** 12 months in a cool and dry place below +4°C or 4 weeks at room temperature.
- **MAPP :** 17223
- **Usable in Organic Production**

## USAGE RECOMMENDATIONS

- **PRESTOP® powder is mainly used in the form of an aqueous suspension for applications:**
  - as a foliar spray.
  - by drip irrigation systems.
  - by dipping or drenching.
  - by incorporation into growing media.

The most efficient way to use PRESTOP® is preventatively. The active microorganism survives in the rhizosphere and on aerial plant parts for several weeks protecting the crop against pathogens.

- **PRESTOP® against *Botrytis* and *Didymella*:**
  - **Foliar spray:** 0.5% of spraying volume in respect of the maximum dose rate (6 kg/ha).
  - **Spray on wounds:** 2% aqueous suspension for localized application.
- **PRESTOP® against soil-borne diseases:**
  - **Soil spray (full cover application):** 3 to 5 kg/ha (depending on disease pressure).
  - **Soil spray (localized):** 3 kg/ha.
  - **Growing media incorporation:** 200 to 500 g/m<sup>3</sup> (depending on disease pressure).

## COMPATIBILITY

PRESTOP® is compatible with many chemical pesticides and can be used in Integrated Pest Management (IPM) programmes.

Ask your distributor before mixing with plant protection products.

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