

FUNGICIDE

T34 BIOCONTROL®

The active ingredient is the beneficial fungus
Trichoderma asperellum strain T34 (dried conidia) 10.83 % w/w
contains a minimum of 1×10^{12} colony forming units per kg of dry weight.
A wettable powder.

A biofungicide for the reduction of *Fusarium oxysporum* f.sp. *dianthi* on carnations
(*Dianthus* species).

Product registration number: **MAPP 15603**

Contains a specific strain of a naturally occurring fungus, not genetically manipulated in any way.

Effective in reducing *Fusarium oxysporum* (Fusarium wilt) disease.

The product contains conidia (spores) which will germinate producing mycelium which infect and compete with other fungi.

Easily mixed into water. Works in rockwool, perlite as well as organic based and soil growing media.

Use as a preventative treatment. Activity on other diseases. May enhance plant growth in the absence of disease.



Fargro Ltd
Vinery Fields, Arundel Road,
Poling, Arundel,
West Sussex
BN18 9PY
Tel: +44 (0)1903 721591
Email: info@fargro.co.uk
www.fargro.co.uk

**USE PLANT PROTECTION PRODUCTS SAFELY.
ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE**

T34 BIOCONTROL®

- Works by:
 - Colonising the growing media and plant roots where it builds a physical barrier against pathogens.
 - Synthesis of biostatic compounds.
 - Parasitism - grows in and infects pathogenic fungi.
 - Induces plant disease mechanisms
- which may also reduce some foliar diseases.
- Evidence that even in the absence of disease plants often show a positive growth response.
- Besides *Fusarium* has activity against a range of other diseases including *Pythium*, *Rhizoctonia*, *Sclerotinia* spp..

The following text is taken from the approved product label:

DIRECTIONS FOR USE

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.

T34 BIOCONTROL is a biofungicide that contains conidia of the beneficial fungus *Trichoderma asperellum* strain T34. T34 BIOCONTROL should be applied repeatedly during the life of the crop for optimum effect, beginning during plant propagation (seedlings and cuttings). T34 BIOCONTROL must be reapplied at appropriate intervals to maintain the fungal population in the compost, especially at re-potting. After other substrate treatments such as sterilisation, fumigation, solarisation or bio-fumigation, allow a suitable interval before using T34 BIOCONTROL.

MODE OF ACTION

T34 BIOCONTROL preventatively applied, protects carnation plants from *Fusarium* wilt due to its capacity to colonise the growing media and the plant root zone. T34 BIOCONTROL has a suppressive effect on the soil-borne pathogen *Fusarium oxysporum*, since it directly competes for space and/or nutrients and can parasitise the pathogenic fungus.

PREPARATION AND RATE OF T34 BIOCONTROL

T34 BIOCONTROL may be applied by spraying, through an irrigation system or by root dipping.

Application equipment should be thoroughly cleaned before use so that no traces of previous pesticides remain. Dissolve the specific amount of T34 BIOCONTROL in a small amount of water and shake to obtain good product dispersion. Add this solution to the spray or irrigation tank, with the total volume of water necessary, stirring continuously to ensure a homogeneous application of the product.

When T34 is applied through the irrigation system, apply T34 BIOCONTROL in the penultimate irrigation of the day, to ensure that no other residual product remains in the irrigation system. This will also minimize the wash-out risk and help to achieve suitable diffusion in the substrate.

Application equipment should be thoroughly cleaned after use.

1. SPRAYING OF THE GROWING MEDIA FOR PROPAGATION

Apply T34 BIOCONTROL by spraying, at a dose of 10 grams of T34 BIOCONTROL per m³ of substrate before potting or at a dose of 0.5 grams per m² of surface area immediately after sowing seeds or rooting cuttings.

2. ROOT DIP

Before planting, we recommend dipping the roots of the cuttings for several hours or overnight in a solution of water with 0.01 g of T34 BIOCONTROL in 1 L of water.

3. IRRIGATION OF CONTAINER GROWN CROPS

Apply the product by irrigation at 5 grams of T34 BIOCONTROL per 1000 pots of 1L at the planting day.

Repeat the application one week later if plants were not treated during propagation with T34 BIOCONTROL,

Apply 5 grams of T34 BIOCONTROL per 1000 pots of 1L every 2-3 months as follow-up treatment and also prior to a risk situation or after plants are stressed.

The maximum in-use concentration of T34 BIOCONTROL must not exceed 10 g/L water.

COMPATIBILITY

T34 BIOCONTROL should not be applied in mixture with other pesticides or liquid fertilisers. The effect of other pesticides applied either before or after T34 BIOCONTROL on the effec-

tiveness of T34 BIOCONTROL has not been fully established. Some pesticides, particularly fungicides, may reduce effectiveness of T34 BIOCONTROL.

RESTRICTIONS

Safety of T34 BIOCONTROL has been demonstrated on a limited number of carnation varieties (*Dianthus* species). Although damage to other varieties is unlikely to occur in normal use, it is advisable to test the product on a small number of plants before treating large numbers of plants of a new variety for the first time.

Effectiveness of T34 BIOCONTROL has been demonstrated in a range of compost types including peat and coir but it is advisable to test the product with more unusual types of compost before using the product on a large scale, or before using with a different type of compost for the first time.

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

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the product or applying the product.

*Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent.

However engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH HANDS/EXPOSED SKIN before eating and drinking/smoking/after work.

WASH ANY CONTAMINATION from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

Environmental protection

Do not contaminate water with the product or its container.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

T34 BIOCONTROL should be stored in a cool dry place at 4°C. Keep dry and frost proof in a suitable pesticide store.

IMPORTANT INFORMATION

FOR USE ONLY AS A {HORTICULTURAL}* FUNGICIDE

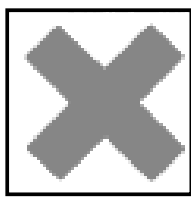
Crops:	Maximum individual dose:	Maximum number of treatments:	Latest time of application:
Ornamental plant production (protected, container grown)	10 g product / m ³ compost or soil	1	Incorporation into growth medium before potting
	OR		
	0.5 g product / m ²	1	Immediately after sowing seeds or rooting cuttings
	AND/OR		
	0.01 g product / L	1	Dip roots of cuttings in a solution (of 0.01g product per litre of water) before planting
	AND/OR		
	0.005 g product / L compost (Irrigated container grown plants)	-	-

Other specific restrictions:

- 1) Use in ornamental plant production is restricted to carnation plants grown under protection.
- 2) Effectiveness of each of these application methods individually has not been established and growers are advised to apply a sequence of treatments using each of the recommended application methods.

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.

T34 BIOCONTROL® MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.



KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.

DO NOT BREATHE DUST.

DO NOT BREATHE SPRAY.

WEAR SUITABLE GLOVES.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL seek medical advice immediately (show the label where possible).

HARMFUL Micro-organisms may have the potential to provoke sensitising reactions.

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

Pack Sizes: 100g, 500g.

{}* text not on actual approved label.

Approval holder:

Biocontrol Technologies S.L.,
C/ Baldiri Reixac, 15-21, 08028 Barcelona
(Spain) Tel: +34-93-4039752

Spanish Patent ES 2 188 385 B1, European Patent EP 1 400 586 B1, USA Patent US 7 553 657 B2.

®T34 BIOCONTROL and Biocontrol

Marketed in the UK by Fargro Ltd.

Technologies are registered trademarks of Biocontrol Technologies, S.L.

Telephone 01903 721591

© 2012-2015 Copyright of Fargro and its suppliers.

Safety data sheet available on request.