

PRODUCT SHEET

# SMILEY N FOLIAR



**100% Bio**

*Authorized in organic farming*

**PRODUCT WITH SPECIFIC ACTION WITH NITROGEN FIXING  
MICROORGANISMS, INOCULATION OF MYCORRHIZAL FUNGI AND  
TRICHODERM, ON WATER SOLUBLE AND BIODEGRADABLE BASE**

**COMPOSITION - 100 g of product contain:**

**Type of organic soil improver: soil improver  
simple non-composted vegetable**

Azotobacter salinestris	1 x 10 <sup>10</sup> CFU/g
Pseudomas fluorescens	1 x 10 <sup>8</sup> CFU/g
Bacillus subtilis	1 x 10 <sup>8</sup> CFU/g
Streptomyces sp.	1 x 10 <sup>7</sup> CFU/g
Trichoderma viride	g 0.5
Mycorrhizae:	g 2.0
Coformulanti q.b. a	g

**Smileybee Ltd.**

Strovolou, 77 Strovolos Centre II/204, Strovolos, 2018, Nicosia, Cyprus - P. IVA CY10414692W

**Commercialized by:**

Smileybee Ltd - Strovolou, 77 Strovolos Centre II/204, Strovolos, 2018, Nicosia, Cyprus



# SMILEYN FOLIAR

Active ingredient:

Mycorrhizal fungi, Trichoderma, Bacteria Pseudomas fluorescens, Bacillus subtilis, Streptomyces sp., Azotobacter salinestris

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## GENERAL INFORMATION

All plants need nitrogen to grow, a gas present in abundance in the atmosphere, constitutes 78%, and which represents the foundation of plant life. However, plants are not able to use nitrogen found in the air, but depend on the activity of plant microorganisms that absorb it from the atmosphere and make it bioavailable.

Smileybee isolated strains of specific symbiotic and asymmetric (free) bacteria capable of transforming atmospheric nitrogen into a readily assimilable form and enriching the microbiome.

Under favorable conditions, the activity of free nitrogen-fixers can provide up to 45 kg/ha of nitrogen per year, thus reducing the use of nitrogen fertilizers.

The ongoing climate changes characterized by high temperatures and long periods of drought lead to a low efficiency of traditional fertilizers which, combined with an increase in their prices, make the application of SMILEYN FOLIAR extremely advantageous and able to guarantee high productions such as quantitative even in case of reduction of fertilizer units administered with traditional fertilizers

## FEATURES

SMILEYN FOLIAR is a fertilizer containing specific symbiotic nitrogen-fixing microorganisms able to colonize plant tissues and act in the following ways:

- They promote the synthesis of the enzyme nitrogenase which, by binding to nitrogen present in the air, favors and increases the fixation of atmospheric nitrogen at the leaf and root level.
- They induce the production of metabolically active substances in the plant such as indoleacetic acid, gibberellic acid and glutamic acid
- They increase plant resistance to abiotic stress with improved water use (WUE (Water Use Efficiency)).
- Increase NUE (Nutrient Use Efficiency)

The product also consists of:

- Endomycorrhiza that increase the absorbent capacity of the plant once they reach the soil
- Trichoderma able to naturally increase resistance to different types of stress



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Active ingredient:

Mycorrhizal fungi, Trichoderma, Bacteria Pseudomas fluorescens, Bacillus subtilis, Streptomyces sp., Azotobacter salinestris

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## COMPOSITION

Each ml contains: Azotobacter salinestris ( $1 \times 10^{10}$  CFU), Pseudomas fluorescens ( $1 \times 10^8$  CFU), Bacillus subtilis ( $1 \times 10^8$  CFU), Streptomyces sp. ( $1 \times 10^7$  CFU), Trichoderma viride (0.5% in weight), Mycorrhizae (2.0% in weight): in a simple non-composted vegetable amendment.

## FIELDS, DOSES AND METHODS OF USE

### FOLIAR 75 g x ha

- Autumn winter cereals at the end of tillering
- Corn at the 4th 5th leaf
- Sugar beet at the 5th 6th leaf
- Rice after the first dry
- Soy after the 6th true leaf
- Horticultural crops: post transplant and every 30 days
- Fruit crops after fruit set
- Strawberry: Post transplant / vegetative growth
- Small fruits: Post fruit set
- Turf, after mowing every 30 days
- Post-transplant flower crops



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Active ingredient:

Mycorrhizal fungi, Trichoderma, Bacteria Pseudomonas fluorescens, Bacillus subtilis, Streptomyces sp., Azotobacter salinestrus

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## COMPATIBILITY WITH OTHER PRODUCTS

SMILEY<sup>N</sup> FOLIAR can be used alone, in combination with organic and mineral fertilizers and with the most commonly used herbicides. It is not recommended to use in combination with fungicides.

## WARNINGS

- Store between 5°C and 40°C
- Tenere lontano dalla portata dei bambini e degli animali
- Use gloves during use and avoid contact with eyes and mouth
- Do not mix with other chemicals, contains microbial cells, do not swallow.

*Autorizzato in agricoltura biologica*

