

# BOTAN STRESS

## TECHNICAL DATA SHEET

Trade name	BOTAN STRESS
Group	Fertilizer
Type	Biostimulant
Degree	Agricultural
Manufactured by	Botanitec SpA - Chile
Marketed by	Botanitec SpA



Product suitable for use in Organic farming in accordance with the NOP Regulation Control by ECOCERT

### COMPOSITION

Plant extract	10% w/v
Organic carbon	1.9% w/v
Polyphenols	0.2% w/v
Ascorbic Acid	0.07% w/v
Citric Acid	0.09% w/v
Pollutants:	
Cd · As · Pb · Hg	< 1 ppm
Antioxidant Cap (DPPH)	4 gTrolox /L
Density (at 20 °C)	1 g/L
pH (20 °C)	3.3
Formulation	Soluble Concentrate – SL
Mode of Action	Contact

### CHARACTERISTICS

**BOTAN STRESS** is an organic and natural antioxidant composition for foliar application and via irrigation, based on plant extracts, which allows **to reduce plant stress** associated with different processes: extreme temperatures, high radiation, water stress, salinity, herbicide poisoning, compacted soil, waterlogging and salinity.

This solution, rich in **polyphenols and flavonoids**, allows the **recovery of the plant from an abiotic stress event**, and improves its **resilience**, its ability to withstand and recover from adverse conditions. The application of **BOTAN STRESS** The **photosynthetic activity of plants increases with statistical significance**, and the **expression of genes associated with oxidative stress decreases**, which makes their metabolic resources available for the synthesis of greater reserves and dry matter. As a result, more vigorous plants and less damage to the fruits are obtained.

## RECOMMENDATIONS FOR USE

Below are the indications for use of **BOTAN STRESS** for different crops:

Crop	Application	Number of applications	Application type	Dose
Grass and ornamental plants	Preventive treatment: Prior to a stress event <sup>1</sup> , every 7 days.	From 3	Foliar	6 cc/L
	Curative treatment: After stress event <sup>1</sup> and repeat every 14 days.	1 to 4	Foliar	6 cc/L
Vegetables	Preventive treatment: Prior to a stress event <sup>1</sup> , every 7 days.	From 3	Foliar	6 cc/L
	Curative treatment: After stress event <sup>1</sup> and repeat every 14 days.	1 to 4	Foliar	6 cc/L
Fruit orchards	Preventive treatment: Prior to a stress event <sup>1</sup> , every 7 days.	From 3	Foliar	3 L/ha
	Curative treatment: After stress event <sup>1</sup> and repeat every 14 days.	1 to 4	Foliar	6 L/ha
	During radical stress event <sup>2</sup> , with active root growth.	1 to 2	Irrigation	6 L/ha
Fruit orchards in formation	Preventive treatment: Prior to a stress event <sup>1</sup> , every 7 days.	From 3	Foliar	6 cc/L
	Curative treatment: After stress event <sup>1</sup> and repeat every 14 days.	1 to 4	Foliar	6 cc/L

<sup>1</sup> Extreme temperatures, high radiation, water stress, salinity and herbicide poisoning.

<sup>2</sup> Compacted soil, waterlogging and salinity.

## APPLICATION, RECOMMENDATIONS AND OTHERS

### FOLIAR APPLICATION

- Ensure sufficient wetting to ensure uniform coverage of the plant.
- Preferably use with a turbo sprayer to ensure uniform distribution.
- Apply avoiding the following conditions: dew present, rain for at least 24 hours before and after application, with strong wind (> 11 km/h) due to the risk of drift and/or extreme temperatures.

### APPLICATION VIA IRRIGATION

- Without automated irrigation: apply after irrigation, covering the root zone.
- With automated irrigation: Apply in the second third of irrigation if pipe flushing is not done; and in the last third of irrigation if pipe flushing is done.

### RECOMMENDATIONS AND OTHERS

- Shake container before use.
- It is compatible with other commonly used fertilizer products, *Trichoderma* spp and *Bacillus* spp.
- Store in a cool, dark place. Do not be exposed to direct sunlight. The product may build up pressure inside the container, so it is recommended to open it carefully.
- It is neither toxic nor dangerous for the user or the environment. Its composition makes it a non-phytotoxic formula and it is harmless for operators, machinery and the environment. It is not flammable.
- Biodegradable product, approved for use in organic agriculture so it has no deficiency restrictions.
- Shelf life in sealed container: 2 years.
- Sales formats: 5L and 20L.