Fruit Energy BZ

BIOACTIVATOR
Special bioactivator of flower fertility, flowering and fruit setting

Increases flower fertility

Promotes the synthesis of natural phytohormones

Enhances flowering and promotes fruit setting

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Characteristics

Fruit Energy BZ is a highly enhanced bioactivator designed for targeted action on flowering and fruit set. It is formulated with zinc and boron complexed with natural organic extracts. The product's effectiveness is based on the synergy between microelements and organic bioactive compounds, which stimulate the main physiological processes involved in plant reproduction and fruit development. The organic components include algal extracts (*Ascophyllum* spp., *Laminaria* spp., *Fucus* spp. and *Macrocystis* spp.), obtained through the special **ALGENFOUR SCE®** (Super Cold Extraction) technology, tryptophan, humic and fulvic acids, and L-amino acids. These seaweed extracts are rich in polysaccharides, natural phytohormones, amino acids, and alginates, which act as osmoprotectants and cell division stimulators, enhancing nutrient absorption and translocation. Naturally derived tryptophan promotes the production of natural cell division promoters (e.g., IAA and PAA), while humic and fulvic acids improve nutrient uptake and provide an energy reserve for the plant. L-amino acids, in addition to being an immediate energy source, accelerate and enhance pollination and fruit set, and also strengthen the plant's response to environmental stress. Zinc (Zn) is involved in protein, chlorophyll, and phytohormone synthesis, supporting resistance to environmental stress and improving photosynthetic efficiency. Boron (B), a key element for flowering and fruiting, is essential for pollen vitality, cell wall formation, and sugar metabolism, directly influencing flower fertility and early fruit development. The synergistic combination of these elements allows **Fruit Energy BZ** to act as a powerful bioactivator, capable of supporting the plant even under unfavorable environmental conditions. It promotes intense flowering, increases flower fertility, ensures more uniform and abundant fruit set, and supports early and homogeneous fruit development.

Composition

	w/w*	w/v		w/w*	w/v
Total boron (B)	1,6%	1,9%	Total zinc (Zn)	6,3%	7,5%

Raw materials: brown algae, boron ethanolamine, zinc chloride.
* Equivalent to w/v at 20°C.

Doses and Instructions

CROPS	FOLIAR APPLICATION	DOSE ml/hl*
Fruit trees	From pre-flowering to fruit set (petal fall)	40-80
Horticultural crops	From pre-flowering to fruit set (petal fall)	40-80
Ornamentals	Before flowering	40-80
Industrial crops	Before flowering	40-80
CROPS	**FERTIGATION APPLICATION**	**DOSE l/ha***
Fruit trees	From flowering to fruit enlargement	0,8–1,2
Horticultural crops	From flowering to fruit enlargement	0,8–1,2
Ornamentals	Before flowering	0,8–1,2

*The doses are indicative and should be adjusted based on the characteristics of the area and the specific needs of each crop.

Formulation	Packaging	Density (T=20°C)	pH (sol. 6 %)	Conductivity (sol. 10 %)
Soluble liquid	0,5-1-5-10 l	~ 1194 kg/m^3	~ 9,8	~ 1,8 dS/m

Warnings

When used in mixture with other products, it is always recommended to perform preliminary miscibility and compatibility tests on a limited number of plants, also to check for any potential phytotoxic reactions. The product may cause issues when used in combination with copper-based or systemic products. It is advised not to mix with white oils or formulations with acidic pH. Used in association with **CalMag 12**, applied 7/10 days after **Fruit Energy BZ**, thanks to the presence of calcium, helps to structure more the fruit.

Technical Notes

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