

ZINCMICROBES

ZINC-SOLUBILIZING MICROORGANISMS



SOIL MICROBIOTA

ZincMicrobes owned by Microendo Inc., is a unique and patented bio-fertilizer on the market, whose action is based on the activity of the bacterium *Bacillus pumilus*. These bacteria naturally live in the soil near plant roots, where they establish a mutually beneficial relationship (symbiosis) with the roots

ZincMicrobes bacteria solubilize the most common form of Zinc in soil, to transform it into Zinc ions (Zn^{2+}), which is the available form in which the plant manages to take up this nutrient. In turn, the bacteria produce hormones (indoleacetic acid) that stimulate plant development.

ZincMicrobes can reduce the addition of Zinc Chelates as a form of fertilization and therefore reduce production costs, in addition to solubilizing the Zinc present in the soil that is not available to the plant



BENEFITS

- Zinc solubilizing microorganisms.
- Source of Zinc for the plant.
- Activates the plant's metabolism.

BIOLOGICAL COMPOSITION

Bacillus pumilus 1×10^{13} UFC/ml

AGRONOMIC USE

ZincMicrobes guarantees a 100% organic and high quality product that can be used for the following crops, although this recommendation is not limited to other agricultural crops: **Vegetables in general:** Cabbage, cauliflower, broccoli, compass cabbage, radish. **Fruit trees in general:** Avocado, citrus, peach, guava, mango, coconut, banana, papaya. **Solanaceae:** Tomato, chili, potato, eggplant, pepper **Cucurbitaceae:** Cucumber, melon, watermelon, pumpkins. **Seeds:** maize and sorghum wheat, barley and oats. **Berries:** blueberry, raspberry, blackberry, blackberry. **Other crops:** Celery, asparagus, lettuce, onion, chives, carrot, walnut, pineapple, vine, sugar cane, cotton, agaves, oil palm.

DATA SHEET

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APPLICATION METHOD

ZincMicrobes comes from a fresh and metabolically active crop, which is why it is recommended for use at the time of receipt. Very early or during the afternoon, avoiding long hours of sun and solar radiation.

The product is injected into the root or in drench directly to the base of the plant. Always make sure that the implement to be used has not had a previous bactericide or fungicide. Wash the pump thoroughly before use. Preferably use neutral powdered soap.

Do not eat, drink or smoke during applications, wash your hands before and after using this product.

It is recommended to dilute 1 liter of **ZincMicrobes** per hectare in natural water as clean as possible for crops of 1-9 kg and for crops of 10-50 kg use 2 liters per hectare and for 60-100 kg use 3 liters per hectare. Do not dilute more than 500 L per liter of **ZincMicrobes** because microbial crops require a minimum concentration to act.

APPLICATION FREQUENCY

It is recommended to make 2-3 applications per hectare for an optimal colonization of the plant with a frequency of 7-10 days each, which will achieve in the plant a healthy nutrition and defense of the crop

DOSE

Crop	<i>General</i>
Dose	1 L/1 ha
Frequency	7-10 days
Applications	2-3 applications

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COMPATIBILITY WITH OTHER PRODUCTS

ZincMicrobes is compatible with some fertilizers.

In case of applying a bactericide, fungicide, pesticide or insecticide, it is necessary to check the residence time of said product and make sure that the application of **ZincMicrobes** is outside this period, as well as wash the material with which the application is going to be made well with neutral soap to ensure that traces of the product are avoided.

Consult your technical advisor for compatibility with other products.

It is not recommended to apply **ZincMicrobes** if a subsequent application of bactericides, fungicides or any similar product is planned as this would kill the population of microorganisms applied with **ZincMicrobes**.

STORAGE AND TRANSPORT

Store the product in cool, covered places at room temperature. Do not expose it to the sun's rays.

TOXICITY

100% organic product. It is not phytotoxic at the recommended concentrations, stages and forms of application. In case of ingestion or discomfort at the time of use, induce vomiting and consult your doctor.

DATA SHEET



If you think of microorganisms, think of Microendo.

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