

Instruction for use

Product name: 'BioFil® Post Harvest' Soil Inoculant

Purpose of application:

The BioFil® Post Harvest product shall be applied after harvesting sunflower, maize, rape and cereals; providing fast decomposition of the stalks and root residues on agricultural fields, in amount of 1 – 1, 5 l/ha. Depending on the spraying tool the preparation should be diluted in 50-400 l/ha water, sprayed and rotated immediately into fields with stalk residues. In case of post-sowing, it is recommended to use soil-specific BioFil® inoculants (Acidic, Normal, Alkaline) together with the BioFil® Post Harvest product. In combined technology BioFil® Post Harvest shall be mixed in a tank mix in a maximum dose of 1 – 1, 5 l/ha with soil-specific inoculants in a maximum dose of 1 – 1, 5 l/ha. The product cannot be used without dilution. If the inoculant is intended to be sprayed together with other products, we recommend making a sample mix before use.

Composition:

Bacteria: *Brevundimonas mediterranea*, *Achromobacter spanius*, *Celvibrio fibrivorans*, *Azotobacter croocroccum*. Bacteria: (0,4 m/m%), substratum (0,3 m/m%), water (99,3 m/m%).

Storage:

Indoors, in original, sealed packaging, in dry, refrigerated, but frost-free place. Do not expose the product to direct sunlight and radiant heat.

Best before: in original, unopened packaging:

between 0-5 °C for 8 months (temperatures lower than 0 °C can damage the product)

between 6-10 °C for 5 months

between 11-20 °C for 2month

between 21-25 °C for 2 weeks

BioFil® soil inoculants must not be mixed with the following compounds: acids, alkalis, cleaning supplies, fungicides and bactericides.

Treatment:

The product does not have any known negative environmental or health hazards, it is not flammable or explosive.

The product is non-toxic, has no harmful effects on plants and animals.

Neither the ingredients, nor the process of production involve GMO or GMO-related elements.

The product can be used in organic farming.

Regular conditions of hygiene must be implemented.

Health hazard period at work: 0 days.

Please consider general rules of work safety when using the product. Avoid the product getting in eyes, mouth or damaged skin. After finishing the work wash hands, take a shower and change clothes. After use the clothes and protective equipment have to be washed properly with cleaning solution. By observing infection or allergy symptoms the work has to be stopped immediately.

Application:

1. In agricultural practice the preparation can be used on soils between 5,0 - 8,5 pH for degradation of stalks and root remains.

2. The preparation shall be applied in a dose of 1 -1, 5 l/ha, before application it is mixed with water in a tank mix, the product cannot be used without dilution.

If the inoculant is intended to be sprayed together with other products, we recommend making a sample mix before use.

3. The product shall be diluted (prepared in a tank mix) in 50-400 l/ha water, depending of the spraying tool and the condition of the soil (less in case of higher water content – more in case of dry soils). The preparation can be used with tap (chlorinated) water, but in this case it is necessary to provide ventilation for the tank mix for a few minutes.

4. The inoculant concentrate has to be shaken properly before use (i.e. before mixing with water).

5. Any tool is appropriate which can be used for field spraying. It is recommended to choose the height of dispersion close to the soil surface to avoid product drift. If possible, use equipment that has a permanent tank mixer, to ensure even distribution of the ingredients. The treatment has to be performed with soil temperature over 0°C. The tank must be thoroughly cleaned before use, carryover of formerly used pesticides and bactericides may reduce its efficiency. Furthermore, we recommend to clean the spraying tool after use.

6. Don't mix the inoculants with bactericides and fungicides, because most of these compounds have negative effects on the performance of the product.

7. After preparing the tank mix the product has to be applied to the soil surface and stalk residues as soon as possible (ideally within 2-3 hours after mixing), or at latest within 12 hours after mixing!

8. Basically the preparation should be sprayed onto the stalk residues and the soil surface, then the product shall be rotated or incorporated (with e.g.: disc, hoe) into the soil immediately at the time of spraying, or as soon as possible (maximum a few hours after spraying). Dehydration and UV radiation may reduce the efficiency of the preparation remaining on the soil. The product shall be applied under proper soil condition for cultivation.

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