APPENDICES:

APPENDIX A

Appendix to the Decision of the Minister of Agriculture and Rural Development No. G-1758/25

INSTRUCTION MANUAL FOR THE USE AND STORAGE OF THE ORGANIC AGENT SUPPORTING PLANT GROWTH – SOIL CONDITIONER **„HUMIBAKT"**

Scope of application

HUMIBAKT is designated for application on all types of soils, in field cultivation of plants. It is particularly recommended for use on light, low-humic soils. It is also dedicated for use in the cultivation of vegetables and ornamental plants, lawns, and in orchardry.

Effects of application

HUMIBAKT rebuilds the humic layer of soil and enhances its sorption capacity. The application of the soil conditioner restores microbiological balance, which, in turn, improves the condition of agricultural crops, orchard plants, ornamental plants, and vegetables. Proper mineralisation of organic matter residue that is left in soil after agrotechnical treatments, by introducing bacteria of a targeted action, to the substrate, has a positive influence on the circulation of the following elements: phosphorus (P), potassium (K), and sulphur (S), and optimises nitrogen (N) management. It also increases the accessibility of micro-and macroelements in forms that are accessible for plants. The increased microbiological activity contributes to the improvement of the cloddiness of soil, which, in turn, enhances the accessibility of nutrients, resulting in increased yield. The desirable cloddy structure of layers of arable soil offers beneficial conditions for the germination of seeds and fosters the proper, optimum development of the root system of plants in the arable layer. The clods form a spatial, spongy complex which, thanks to its porous structure, absorbs and retains water and nutrients, thus improving water retention capacity and reducing the stress caused by water deficit in soil. The addition of humic acids improves the tolerance of plants to salt, frost, and heat and the buffer capacity and cation-exchange capacity of soils. Apart from that, it improves the activity of soil microorganisms and biodiversity.

Dosage, time, and manner of application

Crop cultivation:

HUMIBAKT is applied on soil or on leaves, in form of spraying at the rate of 200 grams of the product per 1 ha soil surface.

HUMIBAKT is best applied in the form of:

- Post-harvest application: Mix 200 grams of the product with 200 – 300 litres of water.
- Pre-sowing application: Mix 200 grams of the product with 200 – 300 litres of water.
- Intervention application at the early stage of plant development: Mix 200 grams of the product with at least 400 litres of water.

The solution should be applied immediately after preparing the mixture. At least 2 applications per year are recommended.

Vegetables:

The soil conditioner should be applied before sowing or planting seedlings, onto prepared soil, in form of spraying water solution at the ratio of 200 g of the conditioner per 1 ha/400 litres of water. After applying, the soil conditioner may be mixed with the 5-10 cm thick top layer of soil with the use of cultivation tools. The soil conditioner may also be applied as intervention at the early stage of plant growth, at the ratio of 200g/ha/400 l of water.

Orchard plants:

Before planting an orchard/plantation: The soil conditioner may be applied in form of aqueous solution prepared by mixing 200 g of the conditioner with 400-700 l of water per 1 ha (10 000 m2).The prepared solution should be sprayed evenly onto the whole surface of the field or onto 1 m wide belts, where trees/seedlings will be planted, and then it should be mixed with the superficial layer of soil to the depth of 5-10 cm. The prepared solution should be sprayed evenly onto the whole surface of the field or onto 1 m wide belts, where trees/seedlings will be planted, and then it should be mixed with the superficial layer of soil to the depth of 5-10 cm.

In an existing orchard/plantation: Aqueous solution of the conditioner, prepared in the same way as described above, should be poured in early spring onto the surface of weed strips/mechanical belts along the rows of plants, with the use of an herbicide bar.

Ornamental plants and lawns:

Before planting: apply on prepared soil in form of aqueous solution prepared by mixing 200 g of the conditioner with 200-300 l of water per 1 ha. Then it may be mixed with the superficial layer of soil to the depth of 5-10 cm with the use of available cultivation tools.

Existing plants/plantations: apply in early spring (before start of vegetation) or as intervention by spreading the aqueous solution evenly over the surface of the plantation (solution: 200 g of the conditioner mixed with 200-300 l of water per 1 ha for ornamental plants, 200 g of the conditioner mixed with 500-700 l of water per 1 ha for lawns). If possible, mix with the superficial layer of soil to the depth of approx. 5 cm.

Application by means of fertigation:

HUMIBAKT may be applied by means of fertigation in the cultivation of field crops, vegetables, flowers, and soft fruit, in the dose of 200 gram of the product per 1 ha of soil, using a 0.02% solution. This ratio is obtained by mixing 200 grams of the product with 1000 litres of water.

Preparation of the liquid

Before preparing the liquid, make sure to determine the required amount. It is recommended to place the conditioner on the sieve of the sprayer that is filled to at least 1/3 of the calculated volume, and then supplement water to reach the target volume and mix thoroughly until completely solved. Sediment in the suspension occurs

naturally. The solution should be applied as soon as possible after preparing the mixture. After spraying, clean the sprayer.

Note:

- Avoid strong sunlight during application. The product should be applied on cloudy days or in the evening.
- Do not use simultaneously with plant protection agents and other chemically synthesised products.
- It is forbidden to apply the soil conditioner on soils that are frozen, flooded with water, or covered by snow.
- The conditioner may be applied together with other fertilizers. In such event, HUMIBAKT should be added at the last stage of preparing the spraying liquid.

Safety precautions and storage:

Do not eat or drink during application. Avoid contact with the soil conditioner. Follow the rules of personal hygiene: after finishing work with the soil conditioner, thoroughly wash the body parts that are exposed to the soil conditioner. Keep away from children. Store in the sealed original packaging, at room temperature, in a dry, properly ventilated room, away from food and drink products. Do not expose to direct sunlight. Do not store in unmarked containers.

Use only in compliance with the instruction manual printed on the label.

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