uTERRA MIDDLE EAST AGRO INDUSTRIES LLC
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TECHNICAL DATA SHEET

ANNEXURE A: Description of "uTerra Biotic Fertilizer"

Liquid organic complex fertilizer for plants "uTerra Biotic Fertilizer" (liquid fertilizer "uTerra Biotic Fertilizer").

Designed by Anatoli Unitsky.

Liquid fertilizer "uTerra Biotic Fertilizer" includes macro-, micro- and ultramicroelements, humic acids, amino acids, organic acids, as well as the wide range of agronomically valuable soil microorganisms from uTerra World Soil Bank at the higher concentration, than black soil contains (approximately 10 12 in 1 liter and more).

Brown coal, peat, crumbly biohumus, inoculums of agronomically valuable aerobic and anaerobic soil microorganisms, molasses, honey and other organic and inorganic substances approved for use in organic farming are used as raw materials for the production of liquid fertilizer "uTerra Biotic Fertilizer".

All the above-mentioned components are allowed in organic agriculture, used as a raw material for liquid fertilizer "uTerra Biotic Fertilize" and don't contain substances polluting the environment. There can be some substitutes because of the variety of raw materials in different countries. All substances are chemically stable and non-toxic.

Liquid fertilizer "uTerra Biotic Fertilizer" is used for highly effective environmentally friendly cultivation of agricultural, flower crops, medicinal plants, to create, restore and maintain soil fertility disturbed by natural processes or human economic activities.
The main positive effects of using fertilizer:
1. increases the yield and quality of agricultural products, accelerates the growth and development of medicinal and flowering plants due to a more efficient supply of essential nutrients and natural phytohormones;
2. creates, restores, and maintains soil fertility disrupted by natural processes or human economic activity;
3. stimulates the development of associations of thousands of species of beneficial soil microorganisms in all their natural diversity in the soil of agricultural lands;
4. reduces the content of heavy metals and radionuclides in plants by binding them in the soil;
5. reduces the nitrate content in plant products;
6. protects plants from diseases and pests;
7. regulates and normalizes soil pH.

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These units of measurement for the composition of fertilizer are used exclusively for the convenience of consumers in the market, for ease of calculation when preparing working solutions.
If necessary, the composition can be given in the following form:

No	Indicator name	Value in uTerra
1	Appearance, color	Liquid from dark brown to black color
2	pH value	6,0-9,0
3	Mass fraction of dry matter %, not less	0,5
4	Nitrogen content N, mg per 100 g, not less	50
5	Phosphorus (P_2O_5) Content: Not Less Than mg per 100 g	50
6	Potassium content (K_2O): not less than mg per 100 g.	50

Contains agronomically valuable microorganisms: Bacillus amyloliquefaciens, Pseudomonas lini.

1. Preparation of liquid fertilizer "uTerra Biotic Fertilizer":
1. For root feeding of agricultural plants: 10–20 ml of liquid uTerra fertilizer, dissolved in 1 liter of water (in a ratio of 1:50–1:100).
2. For root feeding of ornamental plants: 10-15 ml of uTerra is dissolved in 1 liter of water (in a ratio of 1:70-1:100). For optimal results, it is recommended to carry out 2-3 or more feedings per season.
3. For foliar (on green leaves) feeding, soaking seeds, bulbs, tubers, rooting cuttings: 3-5 ml of uTerra fertilizer is dissolved in 1 liter of water (in a ratio of 1:200–1:300).
4. For continuous feeding combined with watering: 1-2 ml of uTerra liquid feeding is dissolved in 1 liter of water for watering (in a ratio of 1:500–1:1000).

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2. Application of liquid fertilizer "uTerra Biotic Fertilizer" on private farms, in closed ground:

1. Root feeding is done once every 10-14 days (more often if necessary) by adding a solution in the dose of regular watering. For optimal results, it is recommended to do 3-4 or more feedings per season.
2. Foliar (leaf) feeding is done once every 10-14 days (more often if necessary) in the evening and morning hours. Plants are sprayed until the leaves are completely wet. For optimal results, foliar feeding alternates with root feeding. For all types of plants, 3-4 foliar feedings are done per season (more if necessary).
3. The soaking time for seeds and tubers is from 2 hours to 1 day, depending on the crop. The cuttings are kept vertically for 24 hours.

3. Application of liquid fertilizer "uTerra Biotic Fertilizer" in agricultural enterprises:

1. For foliar treatment of plants on agricultural land: consumption rate 8-10 l/ha per application and up to 50-60 l/ha per season.
2. 3-5 treatments are carried out per season depending on the selected scheme of cultivation of agricultural crops (type of crops, vegetation period, agro-climatic conditions). With a greater number of treatments (more than 5), the application rate is proportionally reduced.
3. Cannot be combined with pesticides. Do not mix concentrates; test for compatibility in a small volume before use.

uTerra
Enriching the Earth

Manager
uTerra Middle East Agro Industries LLC