APPLICATION INSTRUCTION

(private sector)

BITOXIBACILIN-BTU®-R

biopreparation-insecticide for flowers, vegetable and horticultural crops protection against pests and mites

DESCRIPTION: from cream to brown coloured liquid with specific smell.

SPECIFIC EFFECT: viable cells of Bacillus thuringiensis bacteria, endospores and their biologically active metabolites: protein crystal (endotoxin) and thermally stable exotoxin.

INTENDED USE:
for pests extermination: potato beetle and its larvae, aphids, mites, lepidopterous pests caterpillars (cabbage butterfly; cabbage, apple and fruit mole; cabbage owl-moth, fall webworm, pickleworm, cotton aphid, leaf rollers, silk worm, brown-tail moth, sod webworm, sawfly) on flowers, vegetable and horticultural crops during vegetation.

SPECIFIC EFFECT: biopreparation of intestinal action.
Consumed by insects, beetles, mites with the particles of eaten leaves, the preparation causes intestine paralysis, which kills pests.

APPLICATION:
The biopreparation is used in a form of solution prepared in line with the recommendations (see Table) and used over the span of 24 hours.

Table – Bitoxibacilin-BTU®-r consumption rates for private sector

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest species</th>
<th>Consumption rate</th>
<th>Time and number of treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cucumbers (under glass cultivation)</td>
<td>Mites</td>
<td>70 ml / 5 l of water</td>
<td>During vegetation period 1-2 times within 7-14 days interval.</td>
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<tr>
<td></td>
<td>Melon aphid</td>
<td>70 ml / 10 l of water</td>
<td></td>
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<tr>
<td>Cabbage, potato, tomato, aubergine and other vegetables and flowers</td>
<td>Cabbage butterfly, moth and owl-moth, potato beetle, pyralid moths, sod webworm</td>
<td>35 ml / 4-5 l of water</td>
<td>1-2 treatments against each generation of pests within 5-10 days interval.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Total number of treatments during vegetation period: 2 - 4</td>
</tr>
<tr>
<td>Beets (sugar, table fodder), lucerne, sunflower</td>
<td>Sod webworm, owl-moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currant, raspberry, gooseberry, strawberry</td>
<td>Leaf-roller, pyralid moths, sawfly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vine</td>
<td>Vine leaf-roller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apple, plum, apricot, black cherry, pear, cherry, etc.</td>
<td>Apple and fruit moth, leaf-roller, fall webworm, brown-tail moth</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Shake the preparation before use!*

Mix the required volume of Bitoxibacilin-BTU®-r thoroughly in water of 15 °C to 20 °C temperature.

The treatment should be preferably carried out avoiding direct sun-light better in the evening and morning (air temperature from 15 °C to 30 °C) in windless dry weather.
Maximal Bitoxibacilin-BTU®-r protective effect can be achieved when treating plants at the initial stages of the pests development (1-3 phases: larvae of different age, caterpillar, nymph).

The last treatment is to be carried out in 5 days prior to cropping.

To enhance efficiency add biological adhesive agent Liposam® to the solution: 5-10 ml of Liposam® per 100 l of water. Liposam® should be dissolved separately. First stir up thoroughly the rated amount of Liposam® is a small volume of water (1:1) to get uniform mixture gradually adding small doses of water.

Preparing the spaying tank mixture be sure to comply with the following order: first add chemical preparations (pesticides, etc.), microelements, Liposam® solution and after thorough stir-up add Bitoxibacilin-BTU®-r. In this case chemical treaters and microelements consumption rates are cut respectively by 30-50% and 30% due to Liposam® specific effect ensuring preparations fixation on plants.

BIOPREPARATION PROPERTIES AND APPLICATION EFFECT:
- protects plants against Colorado beetle, aphid, mites and lepidopterous pests larvae
- compatible with biological and chemical crops protection agents in the treatment mixture
- prolonged efficiency period, does not build up pests’ tolerance;
- does not accumulate in plants and soil
- ensures up to 90% plants protection against pests
- enhances vegetable and horticultural crops yields (up to 41%)
- safe for people, animals, useful insects, environment.

PRECAUTIONS:
Do not use houseware to prepare working solution. Wash off the biopreparation if contacting skin or eyes.

STORAGE CONDITIONS:
Stored in hermetically sealed package in the light-protected place.

Biocomplex-BTU®-r guaranteed storage life from the production date: 24 months at 4 °C to 10 °C temperature or 12 months at 10 °C to 15 °C temperature.

PRODUCER:
Private company BTU-Center, Ukraine, 24321, Vinnytsa region, town Ladyzhyn, Budsivelnkyiv Str., 35
tel./fax (04343) 6-02-94; 6-44-84
Sales and marketing department: tel./fax (044) 594-38-83