

Biological Larvicide

# VectoBac® TP

Technical Powder

**Active Ingredient:**

*Bacillus thuringiensis* subsp. *israelensis* fermentation solids and solubles. 5,000 International Toxic Units (ITU) of Potency per mg. (Equivalent to 2.275 billion ITU per pound of undiluted powder) . . . . . 100%

EPA Registration No. 73049-13

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List No. 5620

**INDEX:**

- 1.0 Statement of Practical Treatment
- 2.0 Directions for Use
  - 2.1 General Granulation Directions
- 3.0 Storage and Disposal
- 4.0 End-Use Product Application Directions
- 5.0 Notice to User

## KEEP OUT OF REACH OF CHILDREN

### CAUTION

**1.0 STATEMENT OF PRACTICAL TREATMENT**

**If In Eyes:** Flush with plenty of water. Get medical attention if signs of irritation persists.

**2.0 DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. VectoBac Technical Powder must be diluted before application by suitable aerial or ground equipment at a suggested rate range\* of 0.455 to 0.91 billion ITUs per acre for usual mosquito habitats and 0.91 to 1.82 billion ITUs per acre in polluted water, sewage lagoons, etc.

\*Use higher rate when 3rd or 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, and/or algae are abundant.

A 7 to 14 day interval between applications should be employed.

**2.1 General Granulation Directions**

Rotating Type Mixer:

1. Place suitable diluent, such as sand, in rotating type mixer (cement mixer, ribbon blender, or equivalent).
2. Add Golden Bear-1356<sup>1</sup> or Golden Bear-1111<sup>1</sup> while mixer is running (GB-1356 and GB-1111 may

be sprayed on or gradually poured over sand; spraying is the preferred method instead of pouring).

3. Mix 5-10 minutes to insure that sand granules are covered with GB-1356 or GB-1111.
4. While mixer continues to run, add the calculated amount of VectoBac Technical Powder (as shown in table below). Continue mixing 15-30 minutes or until sand granules are uniformly coated with VectoBac Technical Powder.

A typical blend would consist of:

Materials	%W/W	Based on 100 lbs.	
		100 lbs. sand	final product
VectoBac	4.00	4.3 lbs.	4.0 lbs.
Tech. Powder			
GB-1356 <sup>1</sup>	1.3-1.5*	24 oz.-28 oz.	23 oz.-26 oz.
or GB-1111 <sup>1</sup>			
Sand			
(Washed/dry)	94.7-94.5	100 lbs.	94 lbs.
	100%	105.7-105.9 lbs.	100 lbs.

<sup>1</sup>GB-1356 and GB-1111 are available from Golden Bear Division, Witco Chemical Corporation.

\*Use 1.3% GB-1356 or GB-1111 for fine sand granules 16/30 mesh size and 20/30 mesh size. For course sand grades, 10/20 mesh size, use 1.5% of GB 1356 or GB-1111.

Note: It is recommended that a small batch formulation be produced to determine percent GB-1356 or GB-1111 required to give a free-flowing and dust-free granular formulation.

Following preparation of the sand granular formulation, store in a cool, dry place. Storing in sealed containers will help prevent drying out of the sand granules.

**3.0 STORAGE AND DISPOSAL**

Do not contaminate potable water, food, or feed by storage or disposal.

**Storage:** Store tightly closed containers in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Do not reuse liner or drum. Completely empty liner by shaking and tapping the bottom to loosen clinging particles. Empty residue into manufacturing equipment. Then dispose of liner in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Perforate or crush drum and dispose of in the same manner.

#### 4.0 END-USE PRODUCT APPLICATION DIRECTIONS

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<b>Mosquito Habitat</b>	<b>Suggested Rate Range*</b>
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(Such as the following examples):

Irrigation ditches, roadside ditches, flood water, standing ponds, woodland pools, snow melt pools, pastures, catch basins, storm water retention areas, tidal water, salt marshes and rice fields.	5-10 lbs./acre
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In addition, standing water containing mosquito larvae in fields growing alfalfa, almonds, asparagus, corn, cotton, dates, grapes, peaches and walnuts may be treated at the recommended rates.

Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles.

\*Use 10-20 lbs./acre when late 3rd and early 4th Instar larvae predominate, mosquito populations are high, water is heavily polluted, (sewage lagoons, animal waste lagoons), and/or algae are abundant.

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#### 5.0 NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompany directions.