

United States Environmental Protection Agency



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division
(7511C) 401 M St., S.W.
Washington, D.C. 20460

EPA Reg. Number: 73049-355

Date of Issuance: APR 10 2003

NOTICE OF PESTICIDE:
[x] Registration
Reregistration

Term of Issuance: Unconditional

Name of Pesticide Product: Vectobac Biological Larvicide Primary Powder

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Valent BioSciences Corporation
870 Technology Way
Suite 100
Libertyville, IL 60048

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

- (1) Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
(2) Add the phrase "EPA Reg. No. 73049-355" to the product label.
(3) Submit five (5) copies of your final printed labeling before release of the product for shipment.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Dennis Szuhay

Dennis Szuhay, Acting Branch Chief, Microbial Pesticide Branch, Biopesticides and Pollution Prevention Division (7511C)

Date:

4-10-03

EPA Form 3570-6

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Includes handwritten entries: 7511C, Reynolds Szuhay, 4/9/03, 4-10-03.

**VECTOBAC®  
BIOLOGICAL LARVICIDE  
PRIMARY POWDER**

For Organic Production.

**Active Ingredient:**

*Bacillus thuringiensis*, subsp. *israelensis*, strain AM 65-52, fermentation solids and solubles.....99%

Other Ingredients.....1%

Total.....100%

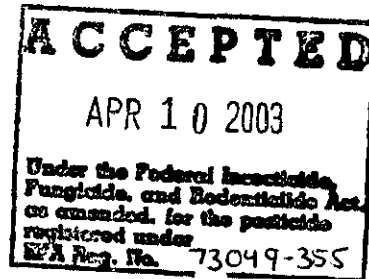
Potency: 6000 International Toxic Units (ITU) per milligram (Equivalent to 2,275 Billion ITU per pound of undiluted powder)

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, IL 60048

EPA Registration No. 73049- XX  
EPA Est. No. 3372-IA-1



<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597.

**PRECAUTIONARY STATEMENT  
HAZARD TO HUMANS (AND DOMESTIC ANIMALS)  
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters. Do not apply directly to treated finished drinking water reservoirs or drinking water receptacles when water is intended for human consumption.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**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 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.

VectoBac Primary 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 on polluted water, sewage lagoons, etc.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all of these factors when making decisions.

\*Use higher rate when late 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.

## GENERAL GRANULATION DIRECTIONS

Rotating Type Mixer:

1. Place suitable diluent, such as sand, in rotating 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 particles are covered with GB-1356 or GB-1111.
4. While mixer continues to run, add the calculated amount of VectoBac Primary Powder (as shown in table below). Continue mixing 15-30 minutes or until sand granules are uniformly coated with VectoBac Primary Powder.

A typical blend would consist of:

<u>Materials</u>	<u>% W/W</u>	<u>Based on 100 lbs sand</u>	<u>Based on 100 lbs final product</u>
VectoBac Primary Powder	4	4.3 lbs	4.0 lbs
GB-1356 <sup>1</sup> or GB-1111 <sup>1</sup>	1.3 - 1.5*	24-28 oz	23-26 oz
Sand (washed/dry)	<u>94.7-94.5</u>	<u>100 lbs</u>	<u>94.7-94.5 lbs</u>
	1,005	105.68-105.9	100 lbs

<sup>1</sup>GB 1345 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 granules, 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.

**END-USE PRODUCT APPLICATION DIRECTIONS**

**Mosquitoes Habitat**

(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.

**Suggested Rate Range\***

5-10 lbs/acre

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.

\*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.

**NOTICE TO USER**

Seller makes no warranty, express or implied, or merchantability, fitness or otherwise concerning the 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 accompanying directions.

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