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GROUP 11 INSECTICIDE

Biological Larvicide

## **VectoBac 200G**

Granule

COMMERCIAL

**GUARANTEE:**

*Bacillus thuringiensis*, subspecies *israelensis*, serotype H-14, strain AM 65-52, 200 International Toxic Units (ITU) per milligram (0.2 billion ITU/kg).

READ THE LABEL BEFORE USING  
POTENTIAL SENSITIZER  
CAUTION EYE IRRITANT

REGISTRATION NO. 19466 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:**

Lot. No.

Date of Manufacture:

Registrant:  
Valent BioSciences LLC  
870 Technology Way  
Libertyville, Illinois 60048, USA  
1-800-323-9597

Canadian Agent:  
Valent Canada, Inc.  
201-203 Hanlon Creek Blvd  
Guelph, Ontario N1C 0A1

**PRECAUTIONS:**

KEEP OUT OF REACH OF UNAUTHORIZED PERSONNEL.  
MAY CAUSE SENSITIZATION  
CAUTION EYE IRRITANT

DO NOT apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

Avoid contact with skin, eyes, and clothing. Avoid breathing dust/spray mist. Wear a long sleeved shirt, long pants, waterproof gloves, shoes and socks, eye goggles and NIOSH-approved respirator with any N-95, R-95, or P-95 filter for biological products when handling, mixing/loading or applying the product and during all clean-up/repair activities. Applicators may remove gloves, eye goggles and respirators if the design and delivery of the application apparatus reduces exposure to a negligible level (e.g. backpack sprayer with application wands that apply

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product directly over water surface). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

| <b>FIRST AID</b>       |   |
|------------------------|---|
| If on skin or clothing | Rinse skin immediately with plenty of water. Remove contaminated clothing and wash separately before reuse. If irritation occurs and persists or is severe, seek medical attention.                                   |
| If in eyes             | Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye. If irritation occurs and persists or is severe, seek medical attention.                           |
| If inhaled             | Move person to fresh air, apply respiration if needed and seek medical attention.   |
| If swallowed           | Rinse mouth and throat with copious amounts of water. <b>DO NOT</b> induce vomiting. Promptly contact a physician or poison control centre. <b>DO NOT</b> give anything by mouth to an unconscious person.            |
| General                | Seek medical attention if irritation or signs of toxicity occur and persist or is severe. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. |

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**STORAGE:**

In order to ensure microbial purity and potency, VectoBac 200G should be stored in the original container at 0 - 25°C and use within 24 months of the date of manufacture.

**DISPOSAL:**

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**DIRECTIONS FOR USE**

**MOSQUITOES**

**Habitat:**

Standing water including temporary and permanent pools in pastures, woodlots, golf courses and parks, irrigation or roadside ditches, natural marshes or estuarine areas catch basins and sewage lagoons.

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Suggested Range Rate:  
3-10 kg/ha\*  
(0.3-1.0 g/m<sup>2</sup>)

\*Use higher rates in deep and/or polluted water, and when late 3rd and 4th instar larvae predominate.

LIMITATIONS: VectoBac 200G may be applied to any water sites except treated, finished drinking water.

Apply recommended rate by conventional ground equipment or measure required rate and broadcast over water using a can or appropriate container and a gloved hand. Uniform coverage is necessary for best results.

DO NOT APPLY BY AIR.

A 3 to 14 day interval between applications should be employed. Monitoring will indicate the appropriate retreatment interval. VectoBac 200G does not affect non-target, aquatic, invertebrate predators and parasites which are non-filter feeders. Therefore, longer periods of suppression may result since these beneficials would be conserved to aid in mosquito population management.

Consult provincial/territorial pesticide regulatory officials for required authorization.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that VectoBac 200G contains a Group 11 insecticide. Any insect population may contain individuals naturally resistant to VectoBac 200G and other Group 11 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same site. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. The following appropriate resistance management strategies should be followed to delay insecticide resistance:

- Where possible, rotate the use of VectoBac 200G or other Group 11 insecticides with different groups that control the same pests in a site.
- Insecticide use should be based on an Integrated Pest Management program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or integrated pest management recommendations for the specific site and pest problems in your area.

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- For further information or to report suspected resistance, contact Valent BioSciences LLC at 1-800-323-9597

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.