

2017-3694
2017-09-26
[[CONTAINER LABEL]]

GROUPE 11 INSECTICIDE

VectoBac® 1200L
Biological Larvicide
Aqueous Suspension

RESTRICTED

GUARANTEE:

Bacillus thuringiensis subsp. *israelensis*, HD-14, strain AM65-52, 1200 International Toxic Units (ITU) per milligram (1.2 Billion ITU/L).

REGISTRATION NO. 21062

PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BROCHURE BEFORE USING
KEEP OUT OF REACH OF UNAUTHORIZED PERSONNEL
POTENTIAL SENSITIZER
CAUTION: EYE IRRITANT

Lot No.:

Date of Manufacture:

Net Contents:

Registrant:
Valent BioSciences LLC
870 Technology Way
Libertyville, Illinois 60048, USA

Canadian Agent:
Valent Canada, Inc.
3-728 Victoria Road South
Guelph, Ontario N1L 1C6

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

FIRST AID	
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. DO NOT induce vomiting. Promptly contact a physician or poison control centre. DO NOT 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 1200L Biological Larvicide Biological Larvicide should be stored in the original container between 0°C and 15°C and used within 6 months of the date of manufacture.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, 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.

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.

[[BROCHURE]]

GROUPE 11 INSECTICIDE

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RESTRICTED

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NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult provincial/territorial pesticide regulatory officials for required authorization.

RESTRICTED USES

For Municipal, Provincial and Federal Control Programs

DIRECTIONS FOR USE

DO NOT allow spray mixture to stand in the tank for more than 18 hours.

DO NOT apply by any type of irrigation system.

Mosquitoes: Apply 0.25 to 1.0L/ha.*

Habitat: Temporary pools in pastures and woodlots, irrigation or roadside ditches, natural marshes or estuarine area, catch basins, and sewage lagoons.

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

Apply recommended rate by conventional aerial or ground equipment..

Apply recommended rate in at least equal volume of water. Do not exceed 1:10 dilution.

VectoBac 1200L Biological Larvicide Biological Larvicide mixes readily with water. Stir to assure uniformity.

A 3 to 5 day interval between applications should be employed. Do not mix more VectoBac 1200L Biological Larvicide Biological Larvicide than can be used in a 24-hour period.

Black Flies (streams only): Meter undiluted VectoBac 1200L Biological Larvicide Biological Larvicide for 1-15 minutes to attain a concentration of 0.5 to 25 mg (0.0005 to 0.025 ml) of VectoBac 1200L Biological Larvicide Biological Larvicide per litre (=ppm) stream water.**

**Use higher rates when streams or rivers contain concentrations of organic material, silt and/or very cold water.

AERIAL APPLICATION INSTRUCTIONS:

Apply only by fixed-wing or rotary aircraft equipment that has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application by using appropriate marking devices and/or electronic guidance equipment.

Use Precautions:

Apply only when meteorological conditions at the treatment site allow for complete and even coverage. Apply only when meteorological conditions are in compliance with local and /or provincial authorities.

Operator Precautions:

DO NOT allow the pilot to mix product to be loaded onto the aircraft. However, loading of premixed product with a closed system is permitted. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear the personal protective equipment described in the PRECAUTIONS section of this label. When handlers/loaders use closed systems to load product onto the aircraft, the handler requirement for eye goggles and a NIOSH-approved respirator with any N-95, R-95, or P-95 filter for biological products may be waived. When reduced personal protective equipment is worn, the respirator/mask and eye goggles must be immediately available for use in an emergency such as a spill or equipment breakdown.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing must be washed before reuse. Decontaminate aircraft cockpit and vehicle cabs if contamination occurs.

Product Precautions:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-323-9597 or obtain technical advice from the distributor or from your provincial agricultural or forestry representative. Application of this specific product must meet and/or conform to the aerial uses and rates on this label.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that VectoBac 1200L Biological Larvicide contains a Group 11 insecticide. Any insect population may contain individuals naturally resistant to VectoBac 1200L Biological Larvicide 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 1200L Biological Larvicide 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.
- For further information or to report suspected resistance, contact Valent BioSciences LLC at 1-800-323-9597.

LIMITATION: VectoBac 1200L Biological Larvicide may be applied to any water sites except finish drinking water. Applications to irrigation water are permissible.

Volume: Apply the recommended rate in a minimum spray volume of 0.25 to 10 litres per hectare.