

Biological Insecticide
VectoBac* 600L
Aqueous Suspension

[CONTAINER LABEL]

Group 11 Insecticide

COMMERCIAL

GUARANTEE:

Bacillus thuringiensis subspecies *israelensis*, Serotype H-14, strain HD-14, 600 International Toxic Units (ITU) per milligram (0.6 Billion ITU/L).

REGISTRATION NO. 19455 PEST CONTROL PRODUCTS ACT

READ LABEL AND BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN
POTENTIAL SENSITIZER

Net Contents:

Registrant
Valent BioSciences Corporation
870 Technology Way
Libertyville, Illinois 60048
USA

Canadian Agent
Valent BioSciences Canada, Ltd.
40 King Street West, Suite 2100
Toronto, Ontario M5H3C2

Lot No.

Date of Manufacture

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

May cause sensitization. Avoid contact with skin, eyes and clothing. Wear a long sleeved shirt, long pants, shoes plus socks, waterproof gloves, when handling, mixing/loading or applying the product and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S. contact 1-866-375-4648 or www.cropro.org

FIRST AID:

If on skin/clothing: Rinse skin immediately with plenty of water. Remove contaminated clothing and wash separately before reuse. If irritation occurs and persists or is severe, immediately seek medical attention.

If inhaled: Remove to fresh air, apply respiration if needed and 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, immediately seek medical attention.

If swallowed: Dilute by giving plenty of water to drink. Promptly contact a physician or poison control centre. Do not give anything by mouth to an unconscious person.

Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE AND DISPOSAL

Storage: Store at temperatures between 0° C and 15° C. Store container upright and keep tightly closed when not in use. After extended storage, vigorously shake or stir contents to assure a uniform suspension. This product should be used within 6 month 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 BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

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DIRECTION FOR USE

Fungus Gnats:

Fungus Gnat Habitat	Rate/Dosage Methods	Suggested Range Rate
Greenhouse vegetables and herbal bedding plants*	1200-2400 ITU	Light to moderate infestation: 2-4 L per 1000 L applied as a soil drench. Heavy infestation: 4-8 L per 1000 L applied as a soil drench
Greenhouse ornamental plantings**		

*Apply weekly as a soil drench when pest monitoring indicates the need.

**Apply VectoBac 600L with adequate water by soil drench to sufficiently wet the soil surface above and under benches where larvae are found. Areas under benches should be treated at high rates as this is one of the primary breeding areas. Reapply as needed. In situations where all life forms (eggs, larvae, pupae, and adults) are present, such as with existing infestations, make one (1) weekly application at the suggested

rate range for heavy infestation. Regular follow-up applications using the suggested light infestation rates will establish a long term maintenance program.

Do not apply soil drenches to plants under stress or follow application with excessive amounts of water. For best results, apply drenches near end of irrigation period. Diluted mixtures of VectoBac 600L must be used within 24 hours of mixing.

VectoBac 600 L is a larvicide and will not control adult gnats, therefore applications must be timed for a stage of development when larvae are present in the soil.

Fungus gnat larvae generally respond to VectoBac 600L treatment within 24 hours following application.

VectoBac 600L is not known to be phytotoxic to ornamental plant species at the recommended rates. However, since all ornamental plant species have not been evaluated, sensitivity to VectoBac 600L should be checked on several plants prior to wide scale usage.

RESISTANCE MANAGEMENT:

For resistance management, please note that VectoBac 600L contains a Group 11 insecticide. Any insect population may contain individuals naturally resistant to VectoBac 600L and other Group 11 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- \$ Where possible, rotate the use of VectoBac 600L or other Group 11 insecticides with different groups that control the same pests in a field.
- \$ Use tank mixtures with insecticides from a different group when such use is permitted.
- \$ Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- \$ Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area..

Monitor: Monitor efficacy of VectoBac 600L and other Group 11 insecticides used against the targeted pest(s) and record other factors that may influence insecticide performance and/or pest development.

Reporting: If a Group 11 target site insecticide, such as VectoBac 600L, appears to be less or no longer effective against a pest that it previously controlled or suppressed, contact a Valent BioSciences Corporation representative at 1-800-323-9597 or at www.valentbiosciences.com to assist in determining the cause of reduced performance.

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