

THIS IS A PESTICIDE ADVERTISEMENT

VectoBac® WG

BIOLOGICAL LARVICIDE

WATER DISPERSIBLE GRANULE

Larvae *Aedes aegypti*
(x5)



Protecting Public Health just comes Naturally

VectoBac® WG is a registered trademark of Valent BioSciences Corporation, Libertyville IL USA 60048



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Certified to ISO 9001 : 2008 Cert. No. : AR2021 Certified to ISO 14001 : 2004 Cert. No. : ER0869 Certified to OHSAS 18001 : 2007 Cert. No. : SR0747

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VectoBac® WG is a water dispersible granule formulation of *Bacillus thuringiensis* subsp. *israelensis* (Bti, strain AM65-52) for control of mosquito larvae.

VectoBac® WG

- Contains a potency of 3,000 International Toxic Units (ITU)/mg against *Aedes aegypti* larvae
- Designed for use in aqueous spray mixes and in direct application
- The first bacterial larvicide to complete the WHO Pesticide Evaluation Scheme

Mode of Action

- Bti produces complex crystal proteins known as protoxins during sporulation
- Mosquito larvae ingest Bti by filter feeding
- Bti protoxins are activated in alkaline environment of the larval midgut
- Activated protoxins are cleaved by the midgut proteases, yielding delta-endotoxins
- Delta-endotoxins cause pore formation in the midgut cell wall, leading to immediate lysis of gut cells
- Larvae are dead within 2-24 hours

Features

- Dry formulation
- Mixes easily with water
- Reviewed by WHO Pesticide Evaluation Scheme
- Effective in direct application for residual control of dengue vectors
- Effective in spray application as aerosol or mist droplets for area-wide dengue vector control
- Highly-specific activity on mosquitoes
- Quickly kills mosquito larvae (2-24 hours)

Benefits

- Increased storage shelf-life
- Decreased weight to transport
- Aqueous spray or direct application
- Sprays easily through many equipment types
- Not harmful to non-target organisms
- Results assessed quickly in field

Larvae	Larval Habitat	Equipment	Application Rate	Dilution Rate	Spray Volume
<i>Aedes aegypti</i> <i>Aedes albopictus</i> <i>Aedes vexans</i> <i>Culex quinquefasciatus</i> <i>Culex gelidus</i> <i>Culex pseudovishnui</i> <i>Anopheles maculatus</i> <i>Anopheles balabacensis</i> <i>Anopheles sundaicus</i>	Watering system, ditches, flooded area, ponds, catchment area	ULV	250-500g/ha	250g/L water	1-2L/ha
		Thermal fogging		250g/10L water	10-20L/ha
	Polluted water and sewage area	Knapsack sprayer		5g/10L water	50-100ml/m ²
	Tank and water storage containers	Direct application	2-8g/1000L water	-	-

READ THE PRODUCT LABEL BEFORE USE