

TECHNICAL USE SHEET

VectoPrime™ FG

Complete Single-Brood Control



VectoPrime™ combines *Bti* (strain AM65-52) with (S)-methoprene in each micro particle by utilizing Valent BioSciences BioFuse™ technology. This allows VectoPrime™ to offer the industry's widest single-brood application window (1st to 4th instar, or pre-flood) with the industry's lowest rates for direct application to water, thus saving significant operational costs while improving application flexibility and providing greater peace of mind.

Application Rates

POST-FLOOD APPLICATIONS

Suggested rate range:
1.25–10 lbs/acre (1.4–11.2 kg/ha)

Use 1.25–4.0 lbs/acre against 1st–4th instar mosquito larvae. Use 4.0–10.0 lbs/acre when water is heavily polluted (e.g., sewage lagoons, animal waste lagoons), algae are abundant, and/or local experience suggests the need for higher rates. Retreat as needed based on local conditions.

PRE-FLOOD APPLICATIONS

Suggested rate range:
10–20 lbs/acre (11.2–22.4 kg/ha)

VectoPrime™ can be applied prior to flooding of mosquito larval habitats. Use 10–20 lbs/acre when up to 7 days pre-flood capacity is needed. Use 20 lbs/acre when a 7–14 day pre-flood application is needed. Retreat as needed. Consult your local Valent BioSciences representative for further advice on pre-flood applications with VectoPrime FG.

POST-FLOOD APPLICATION

	Clean Water	Polluted Water
VectoBac®	2.5–10 lbs/acre (2.8–11.2 kg/ha)	10–20 lbs/acre (11.2–22.4 kg/ha)
VectoPrime™	1.25–4.0 lbs/acre (1.4–4.5 kg/ha)	4.0–10.0 lbs/acre (4.5–11.2 kg/ha)

Bulk Density

PRODUCT	GRANULE SIZE	BULK DENSITY	% INCREASE IN BULK DENSITY RELATIVE TO VECTOAC® G
	U.S. Standard Screen (Metric Conversion)	lbs/ft ³ (kg/m ³)*	
VectoBac® G	5/8 mesh (2.4–4.0 mm)	25 lbs/ft ³ (401 kg/m ³)	—
VectoBac® GS	10/14 mesh (1.4–2.0 mm)	30 lbs/ft ³ (480 kg/m ³)	120%
VectoPrime™ FG	10/14 mesh (1.4–2.0 mm)	37 lbs/ft³ (597 kg/m³)	148%

*Estimated mean bulk density; note there are lot-to-lot variations in bulk density



VectoBac® G



VectoBac® GS



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Ground Applications

VectoPrime FG treatments can be made with many types of ground equipment designed for granule application. These include manually or mechanically driven devices relying on a whirling disk (e.g., Cyclone™ seeder, Ortho® Whirlybird®, Herd™ seeder), and air-blast applicators (e.g., Buffalo Turbine sprayers and Maruyama® or Stihl® power backpacks).

When using VectoPrime FG, it is important to properly calibrate your application equipment. Output at a given setting should be determined, as well as swath width and required speed of travel. Consult your Valent BioSciences technical specialist to determine optimal application methods to meet your program objectives.

Aerial Applications

VectoPrime FG can be applied aerially with conventional fixed-wing aircraft or helicopter application equipment (e.g., Isolair Helicopter Systems application products). Each application unit should be calibrated and the swath characterized using VectoPrime FG before

being used operationally. The variety of equipment in field use precludes specific instructions on settings, airspeed, etc.

Consult your Valent BioSciences technical specialist for aerial calibration assistance.



Packaging

VectoPrime FG is available in the standard pack size of 40 lb (18 kg) bags. Special bulk orders are available in 1,000 lb and 1,200 lb super sacks (453 and 544 kg, respectively). Check with your local Valent BioSciences technical specialist to see what packaging is available in your area.

