

Panel 1

Vectobac®-12AS is a highly selective insecticide for use against mosquito and blackfly larvae.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS

As a precautionary measure in case of contact, flush eyes with plenty of water. In case of irritation, contact a physician.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in a cool place.

PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

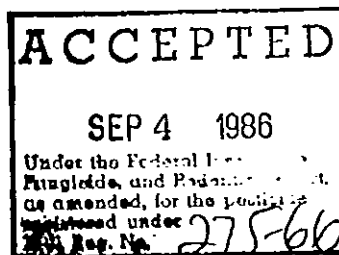
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risk of use, storage or handling not in strict accordance with accompanying directions.

Chemical & Agricultural Products Division  
Abbott Laboratories  
North Chicago, IL 60064

241/1  
4/30/86



Main Panel

VECTOBAC®-12AS

Biological Mosquito and Blackfly Larvicide

Aqueous Suspension

Active Ingredient:

Bacillus thuringiensis, Serotype  
H-14, 1200 International Toxic Units  
(ITU) per milligram (Equivalent to 4.84  
billion ITU per gallon; 1.279 billion  
ITU per liter) . . . . . 1.2%

Inert Ingredients . . . . . 98.8%

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No. 275-66

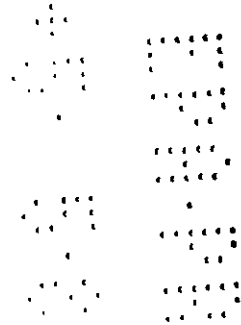
EPA Establishment No. 33762-IA-1

List No. 5605

Lot No.

Net Volume:

241/2  
4/30/86



Panel 3

APPLICATION DIRECTIONS

<u>Mosquito Habitat</u>	<u>Suggested Range Rate*</u>
(Such as the following examples): Irrigation ditches, roadside ditches, flood water, standing ponds, woodland pools, snow melt pools, pastures, catch basins, storm water retention areas, tidal water, salt marshes and rice fields.	0.25 pt-1 pt/acre

Polluted water (such as sewage lagoons, animal waste lagoons)	1 pt-2 pts/acre
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\*Use higher rate in polluted water and when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, and/or algae are abundant.

<u>Blackflies Habitat</u>	<u>Suggested Range Rate</u>
Streams	0.5-25 mg/liter stream water** (=ppm)

\*\*Use higher rate when stream contains high concentration of organic material, or dense aquatic vegetation.

Ground and Aerial Application

Vectobac®-12AS may be applied in conventional ground or aerial application equipment with quantities of water sufficient to provide uniform coverage of the target area. The amount of water needed per acre will depend on weather, spray equipment, and mosquito habitat characteristics. Do not mix more Vectobac-12AS than can be used in a 2-week period.

For most ground spraying, apply in 5-100 gallons per acre using hand-pump, airblast, mist blower, etc., spray equipment.

For aerial application, Vectobac-12AS may be applied either undiluted or diluted with water. For undiluted applications, apply 0.25 to 2.0 pt/acre of Vectobac-12AS through fixed wing or helicopter aircraft equipped with either conventional boom and nozzle systems or rotary atomizers.

For diluted application, fill the mix tank or plane hopper with the desired quantity of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding the Vectobac-12AS. Maintain the agitation while loading or spraying. For all aerial applications, a droplet spectrum in the range of 50-100 microns (VMD) will produce best results.

Rinse and flush spray equipment thoroughly following each use.

For blackfly aerial applications, Vectobac-12AS can be applied undiluted via fixed wing or helicopter aircraft equipped with either conventional boom and nozzle systems or open pipes. Rate of application will be determined by the stream discharge and the required amount of Vectobac-12AS necessary to maintain a 0.5-25 ppm concentration in the stream water. Vectobac-12AS can also be applied diluted with similar spray equipment. Do not mix more Vectobac-12AS than can be used in a 2-week period.

#### Fungus Gnat

##### Habitat

Ornamental plants in greenhouse  
on nursery plantings in potting  
soil mixtures with high percent  
peat

##### Suggested Range Rate

Light infestation  
(0.5-1 tsp/gal)\* applied  
as a soil drench

Heavy infestation  
(2-3 tsp/gal)\* applied  
as a soil drench

\* 0.5-1 tsp/gallon = 8-16 oz/100 gallons

\* 4-6 tsp/gallon = 32-64 oz/100 gallons

Apply with adequate water by soil drench to sufficiently wet the soil surface above and under greenhouse benches where larvae are found. Areas under benches should be treated at high rate as this is one of the primary breeding areas. Reapply as needed. Vectobac-12AS is a larvicide and will not control adult gnats. Fungus gnat larvae generally respond to Vectobac-12AS treatment with 24 hours following application.

Vectobac-12AS can be applied by injection into drip or overhead irrigation systems.

Vectobac-12AS is not phytotoxic to ornamental plant species. However, since all ornamental plant species have not been evaluated, sensitivity to Vectobac-12AS should be checked on several plants prior to wide scale usage.

SMALL QUANTITY DILUTION RATES FOR VECTOBAC-12AS

Gallons Spray Solution/Acre

<u>Rates in Pints</u> <u>Per Acre</u>	<u>10 Gal/A</u>	<u>25 Gal/A</u>	<u>50 Gal/A</u>
	<u>(Ounces Needed Per Gallon of Spray)</u>		
0.25	0.2	0.1	0.04
0.5	0.4	0.2	0.08
1.0	0.8	0.33	0.16
2.0	1.6	0.66	0.32