

BEST AVAILABLE COPY

Vectobac[®]-12 AS is a highly selective insecticide effective against mosquito and black fly larvae.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS

Avoid the use of this insecticide in areas where it may be applied to surfaces with which people have contact or where it may be inhaled.

DIRECTIONS FOR USE

General Classification

This is a biological insecticide which is safe to use on all plants consistent with its label use.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed with spray or dispersal.

STORAGE Store in a cool, dry place.

PESTICIDE CONTAINERS Are hazardous to humans and the environment. Do not reuse or dispose of any containers or applicator equipment except as directed on the label.

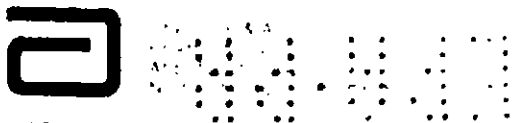
CONTAINERS USE - All containers and applicator equipment should be cleaned immediately after use. Do not reuse for any other purpose.

NOTICE TO USER

For more information on the use of this insecticide, contact your local extension agent or the manufacturer.

SMALL QUANTITY DILUTION RATES FOR VECTOBAC[®]-12 AS

Table with 4 columns: Rates in Pints Per Acre, 10 Gal. A, 25 Gal. A, 50 Gal. A. Includes a diagram of a rectangular area with dots representing mosquito larvae.



01-0000-2/R2

Vectobac-12 AS

Biological Mosquito and Blackfly Larvicide
Aqueous Suspension

Active Ingredient: Bacillus thuringiensis, Serotype H-14 1200 International Toxic Units (ITU) per milligram (IE equivalent to 4.84 billion ITU per gallon) 1.279 billion (IU per liter)
Inert Ingredients 98.8

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg No. 275-66
EPA Establishment No. 33762-1A-1
List No. 5605-04

Lot No.

Net Volume:

APPLICATION DIRECTIONS

Mosquito Habitat

(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.
Polluted water (such as sewage lagoons, animal waste lagoons).

Suggested Range Rate*

0.25 pt./acre

1 pt./2 pts. acre

*Use higher rate in polluted water and when late 3rd and early 4th instar larvae predominate. In such populations are high water is heavily polluted and/or algae are abundant.

Blackflies Habitat

Streams

Suggested Range Rate

0.5 to 25 mg/liter stream water (1 to 100 ppm)

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

Ground and Aerial Application

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

For diluted applications, fill the tank or plane hopper with the desired quantity of water. Start the motor, turn on hydraulic agitation to provide moderate circulation before adding the Vectobac-12 AS. Maintain the agitation while loading or spraying. For aerial applications, a 10 pt. per acre rate in the range of 100-1000 microns (VMD) will produce best results.

Rinse and flush spray equipment thoroughly following each use.

For waterborne applications, Vectobac-12 AS can be applied undiluted or diluted with water. For diluted applications, use either conventional boom and nozzle systems or rotary atomizers. Rate of application will be determined by the stream discharge and the required amount of Vectobac-12 AS necessary to maintain a 0.5 to 25 mg/liter concentration in the stream water. Vectobac-12 AS can also be applied to streams with ground spray equipment. Do not mix more Vectobac-12 AS than can be used in a 2 week period.

Fungus Gnat Habitat (All states except California)

Ornamental plants in green house, nursery plantings in potting soil mixtures with high percent peat.

Suggested Range Rate

Light infestation 0.5-1 tsp./gallon applied as a soil drench.
Heavy infestation 1-4 tsp./gallon applied as a soil drench.

10.5-11.5 sp./gallon (1.6-1.7 lb./gallon)
12-4.1 sp./gallon (1.6-4.7 lb./gallon)

Apply with adequate water by soil drenching. Do not apply with the soil surface above and under greenhouse benches when the benches are 100% A.A.s. under benches should be treated at night as this is some of the primary breeding areas. Reapply as needed. Vectobac-12 AS is a larvicide that will not kill adult fungus gnats. Fungus gnats are generally resistant to Vectobac-12 AS. Treat soil with 1-1.5 lbs. of water per gallon.

Vectobac-12 AS is not effective against fungus gnats in irrigation systems. For control of fungus gnats in irrigation systems, use Vectobac-12 AS in conjunction with other pest control measures. For more information on the use of Vectobac-12 AS, contact your local extension agent or the manufacturer.