

Vectobac™ AS is a highly selective insecticide for use against mosquito and black fly larvae.

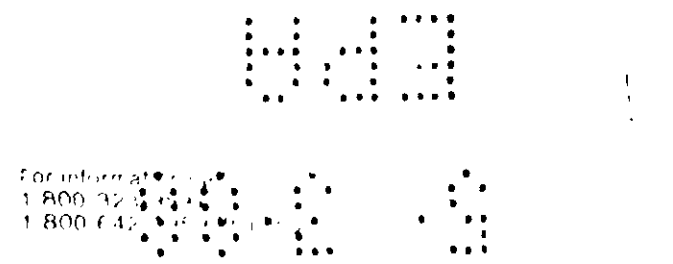
**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS**  
 As a precautionary measure, avoid contact with eyes with this product. Wash thoroughly with soap and water if physical contact occurs.

**DIRECTIONS FOR USE**  
**General Classification**  
 It is a violation of Federal law to use this product for a purpose inconsistent with its labeling.

**CHEMIGATION**  
 Refer to supplemental labeling for the directions for chemigation. Do not apply this product through any irrigation system unless the supplier's label and/or chemigation is followed.

**STORAGE AND DISPOSAL**  
 Do not contaminate water, food, or feed by storage or disposal.  
**STORAGE:** Store in a cool place (55° to 30° C).  
**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. Do not reuse the container.

**NOTICE TO USER**  
 Seller makes no warranty, express or implied, of merchantability. Buyer uses this warning concerning the product. This product is for use only as directed on the label. User assumes all risks of use, storage, or handling not in strict accordance with all applicable directions.



**2** Chemagro & Agrichemicals  
 3000 West 10th Street  
 Atchafalaya, Louisiana 70413  
 North Chicago, Illinois 60064  
 013680-2-R4

NOV 10 1988

**Vectobac™ AS**

5059-04-05

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Mosquito Larvae  
 Black Fly Larvae  
 Aquatic Insects

Active ingredient: **Bacillus thuringiensis**, Serotype H-14  
 1.44% (1.44% active ingredient) (1.44% active ingredient)  
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**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

EPA Reg. No. 275-52  
 EPA Establishment No. 33752-1A-1  
 List No. 5059-04-05

Lot No.  
 Net Volume: 2 x 2-1/2 Gallons

**BEST AVAILABLE COPY**

**APPLICATION DIRECTIONS**

**Mosquito Habitat** Suggested Range Rate  
 Apply to the following examples:  
 0.5 pt./2 pts. acre

1. Mosquitoes in standing water, such as ponds, ditches, and irrigation canals.  
 2. Mosquitoes in water, such as sewage treatment plants, water treatment plants, and water storage tanks.

**Black Flies Habitat** Suggested Range Rate  
 Apply to the following examples:  
 1. Black fly larvae in streams, rivers, and creeks.  
 2. Black fly larvae in water, such as ponds, ditches, and irrigation canals.

**Ground and Aerial Application**  
 Vectobac™ AS may be applied in conventional ground or aerial application. For ground applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS. For aerial applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS. For ground applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS. For aerial applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS.

For ground spraying, apply 0.5 to 2.0 gallons per acre using hand pump or backpack sprayer. For aerial application, apply 0.5 to 2.0 pt. acre of Vectobac™ AS. For ground applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS. For aerial applications, apply 0.5 to 2.0 pt. acre of Vectobac™ AS.

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**Fungus Gnat Habitat (All states except California)** Suggested Range Rate  
 Apply to the following examples:  
 1. Fungus gnats in greenhouses and nurseries.  
 2. Fungus gnats in water, such as ponds, ditches, and irrigation canals.

1. 2 tsp. gal. = 15.32 oz. 100 gallons  
 2. 4 tsp. gal. = 30.64 oz. 100 gallons

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

Vectobac™ AS can be applied by the flood-irrigation, overhead irrigation system, or by the drip irrigation system. However, since all insecticides are highly toxic to aquatic life, do not apply Vectobac™ AS to streams, rivers, or creeks.

**SMALL QUANTITY DILUTION RATES FOR VECTOBAC™ AS**

Rates - Pints Per Acre	Gallons Spray Solution - Acre		
	10 Gal. A	25 Gal. A	50 Gal. A
	(Ounces Needed Per Gallon of Spray)		
0.5	0	0.4	1.6
1.0	1.6	0.8	3.2
2.0	3.2	1.6	6.4



**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**Precautionary Statements  
Hazards to Humans**

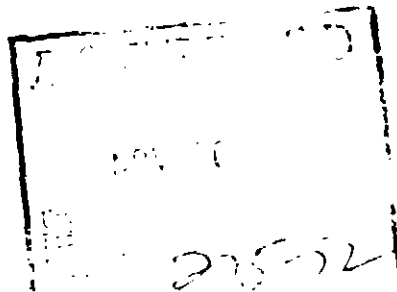
As a precautionary measure in case of contact flush eyes with plenty of water. In case of irritation, contact a physician.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

See container label.



**CHEMIGATION**

Apply this product only through sprinkler including solid set, flood, furrow, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or other pesticide residues in the crop can result from nonuniform distribution of treated water.

ing greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Rice - Flood (Basin) Chemigation**

Systems using a gravity flow pesticide dispensing systems must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Vectobac is metered or dripped into rice floodwater at application stations positioned at the point of introduction (levee cut) of water into each rice field or pan. Two pints of Vectobac AS (or 1 pt of Vectobac ECAS) are diluted in water to a final volume of 5 gallons. The diluted solution is contained in a 5 gallon container and metered or dispersed into the irrigation water using a constant flow device at the rate of 80 ml per minute. Introduction of the solution should begin when 1/3 to 1/2 of the pan or field is covered with floodwater. Delivery of the solution should continue for a period of approximately 4 1/2 hours. Floodwater depth should not exceed 10-12 inches to prevent excessive dilution of Vectobac which could result in reduced larval kill. Agitation is not required during the period in which the Vectobac solution is being dispersed.

Application of Vectobac into rice floodwater is not permitted using a pressurized water and pesticide injection system.

**Greenhouse - Drip (Trickle) and Sprinkler Chemigation**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of 15 individual buildings daily at least 60 days out of the year.

Chemigation systems connected to public water systems must have a functional reduced pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. Then,

