

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

FEB | 0 | 1994

MARVIN H. ALPHIN ABBOTT LABORATORIES CHEMICAL AND AGRICULTURAL PRODUCTS DIV. 1401 SHERIDAN ROAD NORTH CHICAGO, IL 60064 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 9/21/93 In Response to PR Notice 93-7

EPA Reg. No. 275-52 VECTOBAC - AS

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief

Registration Support Branch Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division

Marvin H. Alphin ABBOTT LABORATORIES CHEMICAL AND AGRICULTURAL PRODUCTS DIV 1401 SHERIDAN RD NORTH CHICAGO IL 60064

Comment for: EPA Reg Nr.275-52 VECTOBAC - AS

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Delete the following statement from your proposed label; it is not required for formulations of this type: "Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category __ on an EPA chemical resistance category selection chart."

Add the following User Safety Recommendation to the label in the location shown in Section A on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

VECTOBAC* AS

AQUEOUS SUSPENSION

BIOLOGICAL LARVICIDE

Active Ingredient:

KEEP OUT OF REACH OF CHILDREN CAUTION

Chemical and Agricultural Products Division Abbott Laboratories North Chicago, IL 60064 ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 1 0 1994

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 275-52

EPA Reg. No. 275-52 EPA Establishment No. 33762-IA-1

Net Contents:

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STATEMENT OF PRACTICAL TREATMENT

If in Eyes: Flush eyes with plenty of water. Get medical attention if signs of irritation

persists.

If on Skin: Wash thoroughly with plenty of soap and water. Get medical attention if

signs of irritation persists.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration,

preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS (& DOMESTIC ANIMALS)

CAUTION

Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash contaminated clothing before reuse.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Letet

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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User Safety Recommendations

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the tollet.

PHYSICAL OR CHEMICAL HAZARDS

Diluted or undiluted VectoBac AS can cause corrosion if left in prolonged contact with aluminum spray system components. Rinse spray system with plenty of clean water after use. Care should be taken to prevent contact with aluminum aircraft surfaces, structural components and control systems. In case of contact, rinse with plenty of water. Inspect aluminum aircraft components regularly for signs of corrosion.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply directly to treated finished drinking water reservoirs or drinking water receptacles. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and training described standard contains requirements for training, described and exceptions penalting to the statements on this label about personal protective aguipment (PPE), and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is;

- Coveralis
- Waterproof gloves
- Shoes plus socks.

CHEMIGATION

Do not apply this product through any irrigation system unless labeling on chemigation is followed.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool [59° - 86°F (15° - 30°C)], dry 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. Do not reuse container.

APPLICATION DIRECTIONS

(Fungus Gnat Control)

Fungus Gnat Habitat

Indoor ornamental and plant scape use.
Ornamental and nursery plantings
in greenhouse or potting soil
mixtures.

Vegetable plants such as the following: Tomatoes, leafy and cole crops, cucumbers, peppers and eggplants.

Suggested Range Rate

Light infestation: 16-32 oz/100 gallons* applied as a soil drench

Heavy infestation: 64-128 oz/100 gallons** applied as a soil drench

- * 16-32 oz/100 gallons = 1 2 tsp/gallon.
- ** 64-128 oz/100 gallons 4 8 tsp/gallon.

Apply VectoBac AS with adequate water by soil drench to sufficiently wet the soil surface above and under benches where larvae are found. Areas under benches should be treated at high rates as this is one of the primary breeding areas. Reapply

VectoBac* AS.epa Page 5 of 11 08-20-93 as needed. In situations where all life forms (eggs, larvae, pupae and adults) are present, such as with existing infestations, make three (3) weekly applications at the suggested rate range for heavy infestations. Regular follow-up applications using the suggested light infestation rats, will establish a long term maintenance program.

VectoBac AS is a larvicide and will not control adult gnats, therefore, applications must be timed for a stage of development when larvae are present in the soil.

Fungus gnat larvae generally respond to VectoBac AS treatment within 24 hours following application.

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

PRECAUTIONS

Important: VectoBac AS should not be injected in combination with fertilizers or fungicides containing copper or chlorine, as this may neutralize the active ingredients. (Chlorine levels in potable water supplies should not present a problem with VectoBac AS performance).

Do not apply soil drenches to plants under stress, or follow application with excessive amounts of water.

For best results, apply drenches toward the end of irrigation period.

(Mosquito and Blackfly Control) Suggested Rate Range*

(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).

VectoBac* AS.epa Page 6 of 11 03-20-93 *Use higher range in polluted water when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, and/or algae are abundant.

Suggested Rate Range

Blackflies Habitat	VectoBac AS
Streams	
Stream water** (=ppm) for 1 minute exposure time.	1 - 50 mg/liter
Stream water** (=ppm) for 10 minute exposure time.	0.1 - 5 mg/liter

**Use higher rate range when stream contains high concentration of organic materials, algae, or dense aquatic vegetation.

Ground and Aerial Application

VectoBac 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 the weather, spray equipment, and mosquito habitat characteristics. Do not mix more VectoBac AS than can be used in a 72-hour period.

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

For aerial application, VectoBac may be applied either undiluted or diluted with water. For undiluted applications, apply 0.5 to 2.0 pts/acre of VectoBac AS through fixed wing or helicopter aircraft equipped with either conventional boom and nozzle systems or rotary atomizers.

For diluted applications, 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 AS. VectoBac AS suspends readily in water and will stay suspended over normal application periods. Brief recirculation may be necessary if the spray mixture has sat for several hours or longer. AVOID CONTINUOUS AGITATION OF THE SPRAY MIXTURE DURING SPRAYING.

VectoBac* AS.epa Page 7 of 11 08-20-93 Rinse and flush spray equipment thoroughly following each use.

For blackfly aerial applications, VectoBac AS can be applied undiluted via fixed wing of helicopter aircraft equipped with either conventional nozzle systems or open pipes. Rate of application will be determined by the stream discharge and the required amount of VectoBac AS necessary to maintain a 1 - 50 ppm concentration in the stream water. VectoBac AS can also be applied diluted with similar spray equipment. Do not mix more product than can be used in a 72-hour period.

SMALL QUANTITY DILUTION RATES Gallons Spray Solution/Acre (Ounces needed per Gallons of Spray)

VectoBac AS Rate in Pints per Acre	10 Gal/A	25 Gai/A	50 Gal/A
0.5	.8	.33	.16
1.0	1.6	.66	.32
2.0	3.2	1.30	.64

CHEMIGATION

VectoBac AS can be applied by injection into drip or overhead (sprinkler) irrigation systems.

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

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

If you have questions about calibration, you should contact State Extension Service Specialist, equipment manufacturers or other experts.

Do not connect irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

VectoBac* AS.epa Page 8 of 11 08-20-93 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 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 AS is metered or dripped into the 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 are diluted in water to a final volume in 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 AS which could result in reduced larval kill. Agitation is not required during the period in which the VectoBac AS solution is being dispersed.

Application of VectoBac AS 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 at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventor (RPZ) or the functional equivalent in the water supply line upstream from the point of the 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. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

VectoBac* AS.epa Page 9 of 11 08-20-93 The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain functional, normally closed solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a water pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials compatible with pesticides and capable of being fitted with a system interlock.

The system must contain a functional check valve, vacuum relief valve and low pressure drain, appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure to the point where pesticide distribution is adversely affected.

If VectoBac AS needs to be diluted prior to injection, material may be mixed separately and then put into the injector. Agitation may be necessary if materials are kept more than one day. VectoBac AS may be applied continuously.

Where supply tanks are used for continuous application, fill the supply tank with the desired quantity of water. Start mechanical or hydraulic agitation to provide moderate circulation before adding VectoBac AS. VectoBac AS suspends readily in water and will stay suspended over normal application periods. Avoid continuous agitation of spray mixture during spraying. Brief recirculation may be necessary if the spray mixture has sat for several hours.

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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.

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