

73049-435

12/19/2006

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FEDERAL STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7611C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:

73049-435

Date of Issuance:

12/19/06

Term of Issuance:

Unconditional

Name of Pesticide Product:

Teknar HP Biological
Insecticide Aqueous Suspension

NOTICE OF PESTICIDE:

[X] Registration
Reregistration (under FIFRA, as amended)

Name and Address of Registrant (Include ZIP Code):

Valent BioSciences Corporation
870 Technology Way, Suite 100
Libertyville, IL 60048

Note: Changes in labeling data for this pesticide must be submitted to and accepted by the Biopesticides and Pollution Prevention Division of the Agency. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1) Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2) Add the phrase "EPA Reg. No. 73049-435" to the product label.
3) Submit two (2) copies of your final printed labeling before release of the product for shipment.

A copy of the approved label for the product is enclosed for your records.

Signature of Approving Official:

Janet L. Andersen

Date:

12/19/06

Janet L. Andersen, Ph.D., Director, Biopesticides and Pollution

Prevention Division (7611C) 751P 751P

SYMBOL
SURNAME
DATE

EPA Form 8570-6

Reynolds
12/18/06

**TEKNAR® HP  
BIOLOGICAL LARVICIDE  
AQUEOUS SUSPENSION**

Active Ingredient: <i>Bacillus thuringiensis</i> , subsp. <i>israelensis</i> , strain SA3A, fermentation solids, spores and insecticidal toxins.....	9.06%
Other Ingredients.....	90.94%
Total.....	100.00%

Potency: 1200 International Toxic Units (ITU) per mg (Equivalent to 4.84 billion ITU per gallon, 1.279 billion ITU per liter)

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

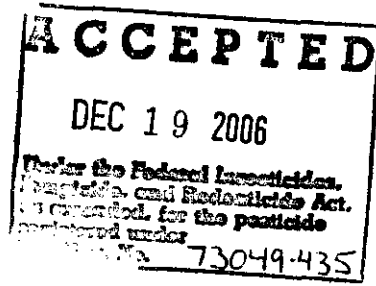
**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See side panel for additional precautionary statements and statement of practical treatment.

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, IL 60048

EPA Reg. No. 73049-UGL  
EPA Est. No. 33762-IA-1

Net Contents:



<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water of 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597.</p>	

**PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS (AND DOMESTIC ANIMALS)  
CAUTION**

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

Mixer/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

**PHYSICAL AND CHEMICAL HAZARDS**

Diluted or undiluted Teknar HP 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 thoroughly with plenty of water. Inspect aluminum aircraft component 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 when water is intended for human consumption.

Do not apply when weather conditions favor drift from treated areas. Do not apply to metallic painted objects, such as automobiles, as spotting may occur. If spray is deposited on metallic painted surfaces, wash immediately with soap and water to avoid spotting.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all these factors when making decisions.

### **CHEMIGATION**

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

#### **STORAGE AND DISPOSAL**

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

**Storage:** Store in a cool, [less than 86° F (30° C)] dry place.

**Pesticide Disposal:** Wastes resulting from the 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**

Do not apply when wind speed favors drift beyond the area of treatment.

#### **Mosquito Habitat**

#### **Suggested Rate Range\***

(Such as the following examples):

0.25 - 2 pts/acre

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.

In addition, standing water containing mosquito larvae, in fields growing crops such as: Alfalfa, almonds, asparagus, corn, cotton, dates, grapes, peaches and walnuts, may be treated at the recommended rates.

When applying this product to standing water containing mosquito larvae in fields growing crops, 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.

Polluted water 1 - 2 pts/acre

(such as sewage lagoons, animal waste lagoons).

\*Use higher rate range 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.

#### **Blackflies Habitat**

#### **Suggested Rate Range**

#### **Streams**

Stream water\*\* (=ppm) for  
1 minute exposure time.

0.5 - 25 mg/liter

Stream water\*\* (=ppm) for  
10 minutes exposure time.

0.05 - 2.5 mg-liter

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

\*\*Discharge is a principal factor determining carry of Bti. Use higher rate or increase volume by water dilution in low discharge rivers or streams under low volume (drought) conditions.

#### **(NUISANCE FLIES)**

For control of nuisance flies (*Psychoda* spp., *Chironomus* spp.) in sewage treatment facilities utilizing trickling filter systems.

**APPLICATION DIRECTIONS**

**Nuisance Fly Habitat**

Trickling filter system  
of wastewater treatment  
plants

**Suggested Rate Range\***

10-20 mg/liter a.(0.833-1.67 ml)  
per liter of wastewater feed to the  
filter per 30 minutes

\*Use high rate for control of *Chironomus* spp. Apply undiluted with pre-calibrated pump or other device into the wastewater feeding into the filters for a period of 30 minutes. Repeat applications as needed after 2-4 weeks. Control of *Chironomus* spp. may take up to 2 weeks.

**(NUISANCE AQUATIC MIDGES)**

For control of *Chironomine* midges (*Chironominae:Chironomini*) inhabiting shallow, man-made and natural lakes or ponds.

**APPLICATION DIRECTIONS**

**Nuisance Midge Habitat**

Shallow Lakes and Ponds  
per sewage oxidation ponds (less than acre  
6 feet deep)

**Suggested Rate Range\***

1 gallon (3,785.5 ml) per acre

\*Apply diluted with water in total volume of 5 gallons/acre by pouring or spraying over the surface to be treated with pre-calibrated device. Repeat application as needed after 2-4 weeks. Control of *Chironomine* midges may take up to 2 weeks.

**Ground and Aerial Application**

Teknar HP 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 will depend on weather, spray equipment, and mosquito habitat characteristics. Do not mix more Teknar HP than can be used in a 72 hour period.

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

For aerial application, Teknar HP may be applied either undiluted or diluted with water. For undiluted applications, apply 0.25 to 2.0 pts./acre of Teknar HP 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 Teknar

HP. Teknar HP 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.

Rinse and flush spray equipment thoroughly following each use.

For blackfly aerial applications, Teknar HP 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 Teknar HP necessary to maintain a .5 - 25 ppm concentration in the stream water. Teknar HP can also be applied diluted with similar spray equipment. Do not mix more Teknar HP than can be used in a 72 hour period.

**SMALL QUANTITY DILUTION RATES**  
**Gallons Spray Solution/Acre**  
**(Ounces Needed per Gallon of Spray)**

**Teknar HP**  
**Rate in Pints**

Per acre	10 Gal/A	25 Gal/A	50 Gal/A
0.25 (4 oz)	0.4	0.16	0.08
0.5 (8 oz)	0.8	0.32	0.16
1.0 (16 oz)	1.6	0.64	0.32
2.0 (32 oz)	3.2	1.28	0.64

**CHEMIGATION**

Apply this product through flood (basin) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in crop can result from non-uniform distribution of treated water.

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

A person knowledgeable of this 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 system 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.

Teknar HP 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 to 3 pints of Teknar HP 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 Teknar HP which could result in reduced larval kill. Agitation is not required during the period in which the Teknar HP suspension is being dispersed. Application of Teknar HP into rice floodwater is not permitted using a pressurized water and pesticide injection system.

#### **NOTICE TO USER**

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

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