



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
100-906

Date of Issuance:
8/29/97

NOTICE OF PESTICIDE:
 x Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Teknar HP-B Larvicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Novartis Crop Protection
410 Swing Road
Greensboro, NC 27419-8300

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. 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/reregistered 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. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 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. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 100-906."
 - b. Change the Hazards to Humans statements to read as follows: "Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapor. Wash thoroughly with soap and water after handling."

Signature of Approving Official:
[Handwritten signature]

Date:

c. Add the following First Aid block on the front panel.

FIRST AID

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

3. Submit a ten day *Daphnia* test using a maximum hazard dose within six months of the date of this registration. Submit a protocol for Agency review within two months of this registration.

4. Submit skin and eye irritation studies on this product within six months of registration. As with the *Daphnia* study, submit a protocol for Agency review within two months of this registration to ensure the correct test material.

5. Resubmit the complete manufacturing process for this product per PR Notice 86-5. You are reminded of your obligations under 40 CFR 180.1011 for batch-to-batch monitoring.

6. Submit five (5) copies of the revised final printed label for the record.

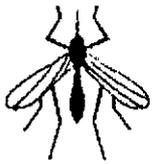
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Janet L. Andersen, Ph.D.
Director
Biopesticides and Pollution
Prevention Division (7511W)



Teknar[®] HP-B LARVICIDE

HIGH POTENCY LARVICIDE FOR MOSQUITO AND BLACKFLY CONTROL

ACTIVE INGREDIENT: *Bacillus thuringiensis* subspecies *israelensis*, Dipteran active toxin(s)
INERT INGREDIENTS

1.5%
98.5%

TOTAL 100.0%

Potency: 1200 International Units per milligram of product or 1.12 billion International Units per quart of this product; 3000 *Aedes aegypti* Units (AA Units) per milligram or 2.8 billion AA Units per quart. Potency Units should not be used to adjust use rates beyond those specified in the Directions of Use.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

Avoid Inhalation or contact with eyes or open wounds.

ENVIRONMENTAL HAZARDS

Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles.

DIRECTIONS FOR USE

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

For Mosquito and Blackfly larval control, TEK[®]NAR[®] HP-B may be applied to any water sites except treated, finished drinking water reservoirs or drinking water receptacles. As the active ingredient of TEK[®]NAR[®] HP-B is exempt from the requirement of a tolerance on all raw agricultural commodities, applications to irrigation water are permissible.

CHEMIGATION

Apply this product only through flood (basin), furrow or border 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 specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including 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.

FLOOD (BASIN), FURROW AND BORDER 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.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- 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 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 a functional, normally closed, solenoid-operated 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.

**ACCEPTED
with COMMENTS
In EPA Letter Dated
AUG 29 1997**

*Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-901*

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where the pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e. g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. A pesticide supply tank is recommended for the application of TEKNAR HP-B by chemigation.

GENERAL MIXING INSTRUCTIONS

Always shake or stir thoroughly before use. Pour recommended amount of TEKNAR HP-B onto surface of water in a nearly filled spray tank. Maintain agitation. Do not allow diluted sprays to stand in the tank for more than 24 hours. Apply TEKNAR HP-B continuously for the duration of water application.

SPECIFIC INSTRUCTIONS FOR MOSQUITO CONTROL-APPLICATION

Apply TEKNAR HP-B when larvae are in 1st to early 4th instar. Larvicidal action is expected within 24 hours. Reapply as needed.

TEKNAR HP-B may be applied either by air or by ground application techniques. When using standard spray equipment, use adequate volume of water to insure good coverage and penetration. As low as one gallon per surface acre can be applied where the site is open and vegetative cover is light.

TEKNAR HP-B may also be applied undiluted through appropriate ULV equipment.

RECOMMENDATIONS

Use lowest rate when 1st to 3rd instar larvae are predominant, and highest rate when late 3rd to early 4th instar larvae are predominant in the Mosquito population. For guidance, rate ranges according to the most common Mosquito habitats are provided in the following chart:

HABITAT	RATE REQUIRED FOR CONTROL
Floodwater, rice fields, pastures, standing ponds and ditches	0.25-0.5 pt./A
Tidal water and salt marshes, catch basins and storm water retention areas	0.5-1.0 pt./A
Water polluted with sewage, water with moderate organic content and water with a high level of suspended solids	1.0 pt./A

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TEKNAR is a registered trademark of Novartis, Inc.

August 1997
Greensboro, N

SPECIFIC INSTRUCTIONS FOR BLACKFLY CONTROL-APPLICATION

For Blackfly control, apply with conventional equipment or with metered release upstream from infested sites to achieve recommended concentrations. Larvicidal action is expected within 24 hours. Reapply as needed. TEKNAR HP-B may be applied undiluted through appropriate ULV equipment.

RECOMMENDATIONS

Maintain a 0.5 to 0.75 ppm concentration in the stream for 15 minutes. If a shorter dosage time is desired, use an equivalent amount of TEKNAR HP-B by increasing the concentration.

STORAGE & DISPOSAL

STORAGE

Store in a cool place. Activity may be impaired by prolonged storage at temperatures above 90°F. Protect from freezing.

DISPOSAL

Pesticide - Do not contaminate water, food or feed by storage or disposal. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

For Information call 1-800-248-7763

Always read the label before using the product.

Shaded areas indicate new information.

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EPA Est No 55947-CA-2

Made in USA
Printed in USA