

2724-365

B1 Israeliensis, Dipteran

TEKNAR HP-D

HIGH POTENCY LARVICIDE
FOR MOSQUITO AND BLACKFLY

By Notification

Dated 9/14/94

ACTIVE INGREDIENT: Bacillus thuringiensis

subspecies israeliensis, Dipteran

active toxin(s):1.6%

INERT INGREDIENTS:98.4%

TOTAL: 100.0%

Potency: 1500 International Units per milligram of product or 1.4 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 for Use.

KEEP OUT OF REACH OF CHILDREN

CAUTION

NET CONTENTS:

PRECAUTIONARY STATEMENT

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, **TEKNAR®** may be applied to any water sites except treated, finished drinking water reservoirs or drinking water receptacles. As the active ingredient of **TEKNAR** 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.

- * 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 TEKNAR by chemigation.

GENERAL MIXING INSTRUCTIONS: Always shake or stir thoroughly before use. Pour recommended amount of **TEKNAR** 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** continuously for the duration of water application.

SPECIFIC INSTRUCTIONS FOR MOSQUITO CONTROL

Application: Apply **TEKNAR** when larvae are in 1st to early 4th instar. Larvicidal action is expected within 24 hours. Reapply as needed. **TEKNAR** 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** 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 below:

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

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** 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** by increasing the concentration.

STORAGE & DISPOSAL: **Storage** - Store in a cool place. Activity may be impaired by prolonged storage at temperature 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.

Metal Drums - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved state or local procedures.

TEKNAR is a trademark of Sandoz Ltd.

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