

**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.

Mixer/loaders and applicators 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.

**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 HP-D** may be applied to any water sites except treated, finished drinking water reservoirs or drinking water receptacles. As the active ingredient of **TEKNAR HP-D** is exempt from the requirements 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 of **TEKNAR HP-D** by chemigation.

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

**Biological Larvicide**

# Teknar® HP-D

## HIGH POTENCY LARVICIDE FOR MOSQUITO AND BLACKFLY CONTROL

**ACTIVE INGREDIENT:**

*Bacillus thuringiensis subspecies israelensis*,  
 Dipteran active toxin(s) ..... 1.6%  
 INERT INGREDIENTS ..... 98.4%

**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 for Use.

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for 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 for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
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.	



**NET CONTENTS:**

**LOT NO.:**

**Specific Instructions for Mosquito Control -**

**Application:** Apply **TEKNAR HP-D** when larvae are in 1st to early 4th instar. Larvicidal action is expected within 24 hours. Reapply as needed. **TEKNAR HP-D** 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 1 gallon per surface acre can be applied where the site is open and vegetative cover is light. **TEKNAR HP-D** may also be applied undiluted through appropriate ULV equipment.

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 grower are responsible for considering all these factors when making decisions.

**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.

HABITAT	RATE REQUIRED FOR CONTROL
Floodwater, rice fields, pastures, standing ponds and ditches, woodland pools, snow melt pools, tidal water and salt marshes, catch basins and storm water retention areas	0.25 - 1.0 PTS./A
Water polluted with sewage, water with moderate organic content and water with a high level of suspended solids	1.0 - 2.0 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. 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-D** by increasing the concentration.

**STORAGE & DISPOSAL**

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

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

**Pesticide 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.

**LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY**

Valent BioSciences warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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