

JAN 12 2004

Norma C. Pangilinan, Ph.D.  
Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645

Subject: AQUA SCOURGE  
File Symbol 432-1246  
Letter dated November 14, 2003  
E-mail dated January 7, 2004

Dear Dr. Pangilinan:

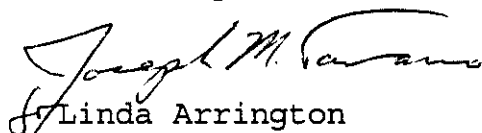
The revised label submitted in connection with registration for of the product cited above under The Federal Insecticide Fungicide And Rodenticide Act, as amended is acceptable subject to the comment listed below. A stamped copy of the draft label is enclosed for your records.

The Application Rate Table must be lined up so that the numbers appear in the correct columns.

Submit two copies of the final printed label before the product is released for shipment under this revised label.

If you have any questions please contact Joseph Tavano at (703) 305-6411.

Sincerely,

  
Linda Arrington  
Acting Product Manager 10  
Insecticide Branch  
Registration Division(7505C)



**RESTRICTED USE CLASSIFICATION** Due to Acute Fish Toxicity For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

**AQUA-SCOURGE® TM**

- \* For Application Only By Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs.
- \* Synergized Resmethrin Water-Based Formulation
- \* A Synthetic Pyrethroid For Effective Adult Mosquito (including organophosphate resistant species), Midge (biting and non-biting) and Blackfly Control
- \* To Be Used As A Space Spray By Air And Ground Application For The Control Of Adult Mosquitoes
- \* A Water-Based Resmethrin Formulation
- \* Unique Patented Formulation for Dilution With Water Rather Than Oil
- \* Uses Water as A Diluent
- \* For Aerial and Ground Application
- \* Fast And Effective Control Of Adult Mosquitoes
- \* A FFAST™ Formulation
- \* Provides Quick Knockdown And Effective Control Of Black Flies, Gnats, Biting And Non-Biting Midges As Well As Other Biting Flies
- \* Contains 0.8 lb/gal (96g/L) of Resmethrin and 2.4 lb/gal (289g/L) of Piperonyl Butoxide

**ACTIVE INGREDIENTS:**

†Resmethrin	10.0%
‡Piperonyl Butoxide, Technical	30.0%
INERT INGREDIENTS*:	60.0%
	100.0%

Cis/trans isomers ratio: Maximum 30% (±) cis and minimum 70% (±) trans.  
 Aventis Environmental Science SBP-1382 brand of resmethrin insecticide  
 ‡Equivalent to 24.0% (butylcarbityl)(6-propylpiperonyl) ether and 6.0% related compounds.  
 Contains 0.8 pounds of resmethrin and 2.4 pounds of piperonyl butoxide per gallon.  
 \*Contains Petroleum Distillate

**AQUA-SCOURGE** - is a trademark of Bayer Cropsience LP

EPA Reg. No. 432-1246  
NET CONTENTS:

EPA Est. No. \_\_\_\_\_

**PRECAUCION AL CONSUMIDOR:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
 (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**  
 JAN 12 2004  
 Under the Federal Insecticide,  
 Fungicide, and Herbicide Act,  
 as amended, for use only on  
 registered under EPA Reg. No.  
 432-1246

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

- If Swallowed:** -Call a poison control center or doctor immediately for treatment advice.  
 -Do not induce vomiting unless told to do so by the poison control center or doctor.  
 -Do not give any liquid to the person  
     -Do not give anything by mouth to an unconscious person.
- If Inhaled:** -Move person to fresh air.  
 -If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.  
     -Call a poison control center or doctor for further treatment advice.
- If in Eyes:** -Hold eye open and rinse slowly and gently with water for 15-20 minutes.  
 -Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
     -Call a poison control center or doctor for treatment advice.
- If on Skin:** -Take off contaminated clothing.  
 -Rinse skin immediately with plenty of water for 15-20 minutes.  
     -Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-344-7577 for emergency medical treatment information.

**Note To Physician:** Contain petroleum distillate - vomiting may cause aspiration pneumonia.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Wear protective eye-wear. Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish. Do not apply directly to water or to intertidal areas below the mean high tide level. Drift and runoff from treated areas may be hazardous to fish in adjacent waters. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when windspeeds are greater than 10 mph.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE AND SPILL PRO-CEDURES:** Store upright in original container in a locked storage area. Avoid exposure to extreme temperatures. Agitate product thoroughly before use especially after prolonged storage e.g.

over winter.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINERS DISPOSAL:** Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **Plastic containers** - Triple rinse or equivalent, then offer for recycling or reconditioning, or 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.

## **DIRECTIONS FOR USE**

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

READ ENTIRE LABEL FOR DIRECTIONS.

**SHAKE OR AGITATE THOROUGHLY BEFORE USE:** Diluted product must be thoroughly agitated before use. Avoid storing excess formulation in equipment.

**NOTICE:** This concentrate cannot be diluted in oil.

**IN THE STATE OF CALIFORNIA:** for use only by local districts or other public agencies which have entered into and operate under a cooperative agreement with the Department of Public Health pursuant to Section 2426 of the Health and Safety Code.

Aqua-Scourge® is designed to be diluted with water only and applied as a ULV spray. The formulation greatly reduces the evaporation rate of water from the droplets and enables the water-based spray cloud to behave equivalently to a typical oil-based formulation.

This concentrate is recommended for application as an Ultra Low Volume (ULV) or non-thermal cold aerosol. Aqua-Scourge® may be used for mosquito control programs including but not limited to residential, and municipalities around the outside of apartment building, stores and warehouses, industrial, parks, campsites, woodlands, athletic fields, golf courses, gardens, playgrounds, recreational and overgrown waste areas, roadsides, swamps, tidal marshes, and pastures where adult mosquitoes occur. Do not apply over agricultural crops that are used for food, forage or pasture. Do not apply to pastures where food animals are grazing.

In treatment of corrals, feed lots, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.

This product is to be used for control of adult mosquitoes (including organophosphate resistant species), midges (biting and non-biting), blackflies and all common diptera. As a general rule all types of applications should be conducted at temperatures between 50-95 degrees F.

Aqua-Scourge® provides effective control of **adult mosquitoes, black flies,**

**gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, other biting flies, and nuisance flying insects**

Aqua-Scourge® provides excellent control of nuisance flying insects when ULV applications are made at rates up to 0.007 pounds of resmethrin per acre.

Droplet size of an Aqua-Scourge® application may be determined using the following procedure:

Aerosol droplet size of an Aqua-Scourge® application may be determined using generally acceptable methods such as but not limited to A.I.M.S. (hot wire), MgO coated or Teflon coated glass slides. Distance from the sprayer should be adequate to capture sufficient droplets to assess droplet parameters. When using coated glass slides, an adequate volume of air should be sampled by using, for example, rotating rod samplers. Slides are then examined microscopically and the diameter of droplets measured in microns. Slides should be scanned until a minimum of 200 droplets have been measured and assessed. A spread factor of 0.64 for Teflon and 0.86 for MgO should be used to correct droplet diameters when using coated slides.

**GROUND APPLICATION**

**Vehicle-mounted ULV application:** AquaScourge® may be applied through ULV Cold Aerosol Generators, or other equipment designed for non-thermal ULV aerosol applications. Base acreage calculations on a swath of 300 feet. Adjust equipment to produce droplets within a calculated range of 8 - 30 microns (volume median diameter) and apply at a rate not to exceed 0.007 pounds of resmethrin per acre. An optimum swath is created when Aqua-Scourge® is applied from a vehicle that is being driven perpendicular to the wind direction. Direct spray head of equipment in a manner to ensure even distribution of the spray cloud throughout the area. For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. An inversion of air temperatures and a light breeze is preferable. During applications ground wind speeds should not exceed 10 mph. Application during the cool hours of the early morning or night is preferable. Avoid prolonged inhalation of spray droplets.

The desired application rate may be obtained under different conditions by altering the dilution rate of Aqua-Scourge®, the flow of insecticide from the application equipment and the vehicle speed as illustrated in the following Table:

Application Rate (lb resmethrin/A)	Vehicle Speed (MPH)	Flow Rate (Fluid Ounces per Minute)
0.00175	Undiluted	Diluted 1+1      Diluted 1+2
	10 15 20	1.63 2.45 3.27      3.27 4.91 6.54      4.91
0.0035	10 15 20	3.27 4.91 6.54      6.54 9.81 13.08      9.81
	10 15 20	6.54 9.81 13.08      13.08 19.63 26.17

Where dense vegetation is present, the use of the higher rates and/or slower speed is recommended.

**Backpack sprayer ULV application:** Apply through non-thermal ULV

application equipment and base acreage calculations on a 50 foot swath. Dilute Aqua-Scourge with water and apply at the rate of 4 ounces of finished spray per acre (based on a 50 foot swath, 4 ounces should be applied while walking 870 feet). To apply 0.0035 pounds of resmethrin per acre, dilute 1 part of Aqua-Scourge® with 6.4 parts of water and apply at the rate listed above. To apply 0.007 pounds of resmethrin per acre, dilute 1 part of Aqua-Scourge with 2.7 parts of water and apply at the rate listed above.

#### **DIRECTIONS FOR STABLE FLY, HORSE FLY, DEER FLY CONTROL**

For control of adult flies in residential and recreational areas, apply this product diluted or undiluted at a rate not to exceed 0.007 pounds of resmethrin per acre.. Shrubbery and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated. Application of this product to any body of water is prohibited. Repeat applications should be made as needed to provide adequate control.

Space Spray applications: For control of adult mosquitoes resting or flying in areas such as utility tunnels, sewers, storm drains, pipe chases, underground basements, underground passages, parking decks, abandoned buildings or other resting areas where adult mosquitoes may be found. Apply this product at rates up to the maximum amount of active ingredient as specified on this label. This product may be applied using thermal fogging equipment, mechanical foggers, hand-held or truck mounted ULV equipment or other spray equipment suitable for this type of application.

#### **AERIAL APPLICATION**

Aqua-Scourge® may be applied by fixed-wing and rotary aircraft that are capable of making a ULV application. Application rates of resmethrin and PBO per acre are 0.0035 lbs.-0.007 lbs. and 0.01-0.021 lbs. PBO. For aerial applications of Aqua-Scourge the use of ULV equipment and nozzles such as micronair and similar types that produce droplet VMD's less than 60 microns is recommended. Aerial applications should be made preferably in the early morning or evening. Applications should be made at 100-150 feet. Do not apply when windspeeds are greater than 10 mph. It is preferable to make applications when the temperature is between 50-95 degrees F. Repeat applications should be made as necessary. Do not spray over cropland, feed or foodstuffs. Avoid direct application over lakes, ponds, and streams. May be used as a mosquito adulticide in recreational and residential areas and in municipalities around the outside of apartment buildings, golf courses, athletic fields, parks, campsites, woodlands, swamps, tidal marshes and overgrown waste areas.

In order to compensate for windy conditions and ensure drift onto the target area aerial application with aircraft equipped with Global Positioning Systems (GPS) is recommended. The application rate should be 0.0035 lbs to 0.007 lbs. Resmethrin-PBO per acre.

Always clean equipment after use to insure against contamination.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner or use or application, all of which are beyond the control of Bayer Environmental Science. All such risks shall be assumed by the user or buyer.

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Aqua-Scourge is a trademark of Bayer CropScience LP.

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