

# RESTRICTED USE PESTICIDE

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 Applicators Certification. Direct supervision for this product is defined as the certified applicator being physically present during mixing, loading, equipment repair and equipment cleaning. Certified applicators must ensure that all persons involved in these activities under their direct supervision are informed of the precautionary statements.



# Scourge®

## Insecticide

with RESMETHRIN/PIPERONYL BUTOXIDE  
**4% + 12% MF FORMULA II**

- \* A READY TO USE SYNTHETIC PYRETHROID FOR EFFECTIVE ADULT MOSQUITO (INCLUDING ORGANOPHOSPHATE RESISTANT SPECIES), MIDGE (BITING AND NON-BITING), AND BLACK FLY CONTROL
- \* FOR CONTROL OF BITING AND NON-BITING FLIES
- \* CONTAINS 0.3 lb/gal (36 g/L) OF RESMETHRIN AND 0.9 lb/gal (108 g/L) OF PIPERONYL BUTOXIDE
- \* FOR AERIAL AND GROUND APPLICATION

### ACTIVE INGREDIENTS:

*Resmethrin .....	4.14%
**Piperonyl Butoxide .....	12.42%
OTHER INGREDIENTS†: .....	83.44%
	<u>100.00%</u>

\*Cis/trans isomers ratio: max. 30% (±) cis and min. 70% (±) trans.

\*\* (butylcarbityl) (6-propylpiperonyl) ether and related compounds.

†Contains Petroleum Distillate.

EPA REG. NO. 432-716

EPA EST. NO. 432-TX-1

## KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to attached labels for complete First Aid, Precautionary Statements, Directions for Use and Storage and Disposal Instructions.

### Net Contents

275 gal: 4254685

55 gal: 4192825

5 gal: 4192787

04494287E

120529AV1

**BACKED**  
by **BAYER™**

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.)

For **MEDICAL** and **TRANSPORTATION** Emergencies  
**ONLY Call 24 Hours A Day 1-800-334-7577**  
For **PRODUCT USE** Information Call 1-800-331-2867

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 SWALLOWED</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</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 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
[Synthetic Pyrethroid]	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information. In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-334-7577.	
Note To Physician: Contains petroleum distillates - vomiting may cause aspiration pneumonia.	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before use.

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile rubber greater or equal to 14 mils or neoprene rubber greater or equal to 14 mils. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

#### All mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants.
  - Shoes plus socks.
  - Chemical-resistant gloves for all handlers except applicators.
- See engineering controls for additional requirements.

#### Engineering Controls

Applicators using ground mechanical application equipment must use an enclosed cab that has a nonporous barrier that totally surrounds the occupants and prevents contact with pesticides outside the cab. Must be provided and have immediately available for use upon exiting the cab: chemical-resistant gloves. Pilots must use an enclosed cockpit. The cockpit must have a nonporous barrier that totally surrounds the occupants and prevents contact with pesticides outside the cab. Pilots must wear the PPE required on this labeling for applicators.

Human flagging is prohibited. Flagging to support aerial application is limited to the use of Global Positioning System (GPS) or mechanical flaggers.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### Environmental Hazards

This pesticide is toxic to aquatic organisms, including fish, crustaceans, and oysters. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish, crustaceans, and oysters.

Do not apply when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes, or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes, or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinseate or washwaters.

#### 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.

**NOTICE:** This concentrate cannot be diluted in water. Mix well before using. Avoid storing excess formulation in spray equipment tank beyond the period needed for application.

#### Application Restrictions

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

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision. The maximum application rate for wide area mosquito adulticide applications is 0.025 lbs ai/acre. When targeting *Aedes Taeirorhynchus* and other different species applications may be made up to 0.08 lbs ai/acre.

Do not apply more than 0.007 lb of Resmethrin/acre per application.

Do not apply more than 0.2 lb of Resmethrin/acre per year in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

(continued)

**WIND SPEED**

Do not apply when wind speed is 0 mph.

**DROPLET SIZE**

**Ground based application:**

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50µm). Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**Aerial Application:**

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 80 microns (Dv 0.9 < 80 µm). The effects of flight speed, and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra.

**EQUIPMENT CALIBRATION:**

Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**RELEASE HEIGHT:**

**Fixed Wing:**

Apply using a nozzle height of no less than 100 feet above the ground or canopy.

**Rotary Wing:**

Apply using a nozzle height of no less than 75 feet above the ground or canopy.

**Boom Length:**

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

**GENERAL**

Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II is designed for application as an Ultra-Low Volume (ULV) aerosol to control adult mosquitoes and flies in residential, industrial, urban, recreational areas, and other areas where the labeled pests are a problem.

Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn flies, yellow flies, and nuisance flying insects such as house flies in areas such as but not limited to industrial areas, urban areas, parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, and other public areas where adult mosquitoes and flies occur. Apply when ground wind speed is equal or greater than 1 mph.

Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II can be applied as undiluted or diluted with refined soybean oil, light mineral oil of 54 second viscosity, or other suitable solvent or diluent.

**ULTRA LOW VOLUME APPLICATIONS**

All types of applications should be conducted at temperatures of 50°F.

**GROUND APPLICATION**

Vehicle-Mounted ULV Cold Aerosol Generators or Vehicle-Mounted Non-Thermal Aerosol (Cold Fog): Apply through non-thermal ULV application equipment and base acreage calculations on the equipment manufacturer's recommended swath width. Apply at a rate not to exceed 0.007 pounds of resmethrin per acre in any given 24 hour period. An optimum swath is created when Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II may be applied through ULV Cold Aerosol Generators, or other equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained under different conditions by altering the dilution rate of Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II, the flow rate of the insecticide from the application equipment, and the vehicle speed. Examples are given in the following table:

Treatment lb ai/A of Scourge Wanted Resmethrin/PBO	Fl oz/A of undiluted Spray to be Applied	Application Rate-Fl oz/Min	
		5 MPH	10 MPH
0.007/0.021	3.0	9.0	18.0
0.0035/0.0105	1.5	4.5	9.0
0.00175/0.00525	0.75	2.25	4.5
0.00117/0.00351	0.50	1.50	3.0

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

**AERIAL APPLICATION**

Scourge Insecticide with Resmethrin/Piperonyl Butoxide 4% + 12% MF Formula II may be applied either diluted or undiluted at rates of 0.0035 to 0.007 pounds resmethrin per acre by fixed wing or rotary aircraft that are capable of making a ULV application. Applications shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs.

For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. 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.

lb ai/A Wanted Resmethrin/PBO	Fl oz/A of Undiluted Spray to be Applied
0.007/0.021	3.0
0.0035/0.0105	1.5
0.00175/0.00525	0.75
0.00117/0.00351	0.50

**BACKPACK ULTRA LOW VOLUME APPLICATIONS**

For use in nonthermal ULV portable backpack equipment, mix 70 fl oz of this product with 1 gal of refined soybean oil, light mineral oil of 54 second viscosity, or other suitable solvent or diluent. Adjust equipment to deliver fog particles of 18 - 50 microns mass median diameter. Apply at the rate of 4.25 - 8.50 fl oz of finished formulation per acre as a 50 ft swath while walking at a speed of 2 mph; this is equivalent to 0.0035 - 0.007 pounds Resmethrin per acre. Where dense vegetation is present, the use of higher label rates is recommended.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

**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:**

Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse, or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with mineral oil. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, or reconditioning, or puncture and dispose of, in a sanitary landfill, or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with mineral oil. Agitate vigorously or recirculate mineral oil with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**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 must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

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