

432-667

09/14/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D C 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 14, 2012

Jan Brill
Bayer Environmental Science
2 T W Alexander Drive
Raleigh, NC 27709

Subject Amended Reregistration Label
Product Name Scourge Insecticide with SBP-1382/PBO 18%+54% MF Form II
EPA Registration Number 432-667
EPA Decision Number 411260 and 415609

Dear Mr Brill

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the **Piperonyl Butoxide and Resmethrin REDs** and has concluded that your submission is acceptable

NOTE This product is **not** being reregistered under sections 3(c) 5 and 4(g) of FIFRA at this time

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below Any previously dated CSFs are superseded

- Basic CSF, dated 6/30/11

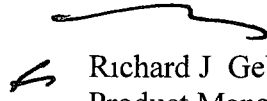
Please note that, should you wish to add/retain a reference to the company's website on your label, the website becomes labeling under FIFRA and is subject to review by the Agency If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under section 12(a)(1)(E) of FIFRA 40 CFR §156.10(a)(5) lists examples of statements EPA may consider false or misleading In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not be substantially differ from those claims approved through the registration process Therefore, should the Agency find, or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance (OECA) As an alternative, you may refer consumers to the company's phone number or e-mail address

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers The code may appear either on the label or durably marked on the container itself, and can be added by non-notification per PRN 98-10

A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e).

If you have any questions about this letter, please contact either Linda Arrington at (703) 305 6249 or via e-mail at Arrington.Linda@epa.gov

Sincerely yours,



Richard J Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7505P)

Enclosures Label stamped "Accepted," dated 9/14/2012
 Acute Toxicity Review, dated 6/20/2011
 Product Chemistry Review, dated 7/20/2011

ACCEPTED
SEP 14 2012

Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended for the pesticide Registered under EPA Reg. No. **432-667**

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 SBP-1382/
Piperonyl Butoxide 18%+54% MF Form. II**

with RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF FORMULA II

- * A SYNTHETIC PYRETHROID FOR EFFECTIVE ADULT MOSQUITO (INCLUDING ORGANOPHOSPHATE RESISTANT SPECIES) MIDGE (BITING AND NON BITING) AND BLACKFLY CONTROL
 - * FOR CONTROL OF BITING AND NON BITING FLIES
 - * FOR AERIAL OR GROUND APPLICATION
- CONTAINS 1.51 LB/GAL (181 g/L) OF RESMETHRIN AND 4.51 LB/GAL (540 g/L) OF PIPERONYL BUTOXIDE

ACTIVE INGREDIENTS

Resmethrin	18.00%
**Piperonyl Butoxide	54.00%
OTHER INGREDIENTS ‡	<u>28.00%</u>
TOTAL	100.00%

‡Contains Petroleum Distillate

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

** (butylcarbityl) (6 propylpiperonyl) ether and related compounds

EPA Reg No 432-667

EPA Est No

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

IF SWALLOWED	<p>Call a poison control center or doctor immediately for treatment advice</p> <p>Do not induce vomiting unless told to do so by a poison control center or doctor</p> <p>Do not give any liquid to the person</p> <p>Do not give anything by mouth to an unconscious person</p>
IF ON SKIN OR CLOTHING	<p>Take off contaminated clothing</p> <p>Rinse skin immediately with plenty of water for 15 to 20 minutes</p> <p>Call a poison control center or doctor for treatment advice</p>
IF IN EYES	<p>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes</p> <p>Remove contact lenses if present after the first 5 minutes then continue rinsing eye</p> <p>Call a poison control center or doctor for treatment advice</p>
[Synthetic Pyrethroid]	
<p>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</p>	
<p>Note To Physician Contains petroleum distillates Vomiting may cause pneumonia</p>	

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 reuse

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 using motorized ground equipment pilots and flaggers

See engineering controls for additional requirements

In addition to the above PPE mixers and loaders supporting aerial applications to forest must wear at least a NIOSH approved respirator with

- a dust/mist filter with MSHA/NIOSH approved number prefix TC 21C or
- any R P or HE filter

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 use of the Global Positioning System (GPS) or mechanical flaggers

User Safety Requirements

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

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

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 rinsate 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

This product is to be used for control of adult mosquitoes (including organophosphate resistant species) midges (biting & non biting) and blackflies by specially designed aircraft capable of applying ULTRA LOW VOLUME of finished spray formulation or by ground application with non thermal or mechanical spray equipment that can deliver spray particles within the aerosol size range and at specified dosage levels.

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

Spray Drift Management

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.

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.

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.

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

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 ($D_v 0.5 < 30 \mu m$) and that 90% of the spray is contained in droplets smaller than 50 microns ($D_v 0.9 < 50 \mu m$). 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 ($D_v 0.5 < 60 \mu m$) and that 90% of the spray is contained in droplets smaller than 80 microns ($D_v 0.9 < 80 \mu m$). 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 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 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.

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

Scourge can be applied as undiluted or diluted with refined soybean oil, light mineral oil of 54 second viscosity or other suitable solvent or diluent.

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 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 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, the flow rate of the insecticide from the application equipment and the vehicle speed. Examples are given in the following Table.

Flow Rate (Fluid Ounces Per Minute)						
Application Rate (lb resmethrin per Acre)	Vehicle Speed (MPH)	Undiluted	Diluted 1 + 1	Diluted 1 + 2	Diluted 1 + 4	Diluted 1 + 6
0.0015	10	0.77	1.56	2.32	3.90	5.40
	15	1.17	2.30	3.50	5.80	8.10
	20	1.54	3.10	4.62	7.70	10.80
0.00175	10	0.90	1.80	2.70	4.50	6.30
	15	1.35	2.70	4.05	6.75	9.45
	20	1.80	3.60	5.39	9.00	12.59
0.0035	10	1.80	3.60	5.39	9.00	12.59
	15	2.70	5.39	8.09	13.49	18.90
	20	3.60	7.20	10.80	17.98	25.17
0.007	10	3.59	7.19	10.79	17.98	25.17
	15	5.39	10.79	16.18	26.97	
	20	7.19	14.38	21.57		

In the State of New York This product shall be applied at the rate of 0 001 to 0 007 pounds of Resmethrin per acre with suitable diluent not to exceed a finished spray solution of 16 fl oz/acre

Where dense vegetation is present the use of the higher label rates is recommended

AERIAL APPLICATION

Scourge 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

USE OF FIXED WING AIRCRAFT OR HELICOPTERS

UNDILUTED

Scourge may be applied undiluted at a treatment rate of 0 007 pounds of resmethrin per acre at a finished spray volume of 0 6 fl oz/acre

DILUTED

For additional rates and dilutions see mixing instructions below
MIXING INSTRUCTIONS FOR PRODUCT IN AIRCRAFT USAGE

If using Scourge diluted follow the mixing instructions contained in the table for Aircraft usage

fl oz/A of Finished Spray to be Applied	lb ai/A Wanted RESMETHRIN/PBO	Volumetric Dilution Needed	
		Product	Solvent
0 5	0 001 / 0 003	1 part	4 5 parts
	0 00175 / 0 00525	1 part	2 37 parts
	0 0035 / 0 0105	1 part	0 68 parts
1 0	0 001 / 0 003	1 part	10 parts
	0 00175 / 0 00525	1 part	5 74 parts
	0 0035 / 0 0105	1 part	2 33 parts
	0 007/0 021	1 part	0 68 parts
3 0	0 001 / 0 003	1 part	34 parts
	0 00175 / 0 00525	1 part	9 2 parts
	0 0035 / 0 0105	1 part	9 parts
	0 007 / 0 021	1 part	4 parts

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

Pesticide Storage Store product in its original container in a locked storage area

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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Scourge is a registered trademark of Bayer CropScience LP.

NET CONTENT

PRODUCED FOR



Bayer Environmental Science

A Division of Bayer CropScience LP
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Research Triangle Park North Carolina 27709

Scourge Insecticide 18 + 54% (PENDING) 04/15/11 Resubmitted 06/30/11 09/17/12