

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

20 SEP 1995

Sharon M. Johnston
AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

Dear Ms. Johnston:

Subject: Revised Labeling, Updated Confidential Statements of
Formula, and Review of Product Chemistry Data
Scourge Insecticide with SBP-1382/Piperonyl Butoxide
18% + 54% MF FII
EPA Registration Number 432-667

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comment listed below:

- Revise the ingredient statement for Resmethrin so that it reads as follows:

Resmethrin 18%

This required change in product labeling is articulated in the Resmethrin Registration Standard.

A stamped copy of the label is enclosed for your records.

The updated confidential statements of formula referred to above are acceptable. They have been added to the file for this product and supercede all previously submitted confidential statements of formula for this product.

The Agency has also completed its review of the product chemistry study "Estimation of Volatile Emission Potential by Thermogravimetry." The data show that the percent weight loss for the pesticide is 26.82%.

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

If you have any questions or comments, please contact me at
(703) 305-6788.

Sincerely,

RPK

Richard P. Keigwin, Jr.
Product Manager 10
Insecticide-Rodenticide Branch
Registration Division (7505C)

30/6

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.

SCOURGE® Insecticide with SBP-1382®/Piperonyl Butoxide
18% + 54% MF Formula II

- ✓ Synthetic Pyrethroid for Effective Adult Mosquito (Including Organophosphate Resistant Species), Midge (Biting and Non Biting), and Blackfly Control
- ✓ For Aerial or Ground Application
- ✓ To Be Applied by Mosquito Abatement Districts, Public Health Officials and Other Trained Personnel in Mosquito Control Programs
- ✓ Contains 1.51 lb/gal (181 g/L) of SBP-1382 and 4.51 lb/gal (540 g/L) of Piperonyl Butoxide

ACTIVE INGREDIENTS:

*†Resmethrin [5-(phenylmethyl)-3-furanyl] methyl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate	18.0%
**Piperonyl Butoxide Technical	54.0%
‡INERT INGREDIENTS:	28.0%
	100.0%

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- ‡Contains Petroleum Distillates
- *Cis/trans isomers ratio max. 30% (±) cis and min. 70% (±) trans.
- †AgrEvo Environmental Health's SBP-1382® brand of resmethrin insecticide
- **Equivalent to 43.2% (butylcarbityl) (6-propylpiperonyl) ether and 10.8% related compounds.
- ‡Scourge and SBP-1382 are registered trademarks of AgrEvo Environmental Health, Inc.

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.)

EPA Reg. No. 432-667

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN
CAUTION
STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol. This product contains aromatic petroleum solvent. Aspiration may be a hazard.
If On Skin: Wash with soap and plenty of water. Get medical attention.

See Side Panel For Additional Precautionary Statements

NET CONTENTS

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

ACCEPTED
with COMMENTS
by EPA Letter Dated
20 SEP 1995

Under the Insecticide,
Fungicide, and Plant Growth Regulator Act
as amended, for the pesticide
registered under EPA Reg. No.
432-667

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated sites may be hazardous to fish in adjacent waters. Consult your State's Fish and Wildlife agency before treating such waters. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

Storage: Store product in 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: 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.

READ ENTIRE LABEL FOR DIRECTIONS

For use only by certified applicators or under the supervision of such applicators, for the reduction in annoyance from adult mosquito infestations and as a part of a mosquito abatement program.

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.

This product is to be used for control of adult mosquitoes, (including organophosphate resistant species), midges (biting & non-biting) and black flies by specially designed aircraft capable of applying ULTRA LOW VOLUME of finished spray formulation or by ground application with nonthermal 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 formulation in spray equipment tank beyond the period needed for application.

ULTRA LOW VOLUME APPLICATIONS

For use in nonthermal ULV portable backpack equipment similar to the Hudson B.P., mix 9.75 fl oz (288 ml) of this product with 1 gal (3.79 L) 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 (311 - 621 ml/ha) as a 50 ft (15.2 m) swath while walking at a speed of 2 mph (3.2 kph). This is equivalent to 0.0035 - 0.007 lb ai SBP-1382/A (3.92 - 7.85 g/ha) or 0.0105 - 0.021 lb ai piperonyl butoxide technical/A (11.77 - 23.54 g/ha). Where dense vegetation is present, the higher rate is recommended.

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For truck mounted nonthermal ULV equipment similar to LECO HD or MICRO-GEN or WHISPERMIST-XL, mix product with refined soybean oil, light mineral oil of 54 second viscosity or other suitable solvent or diluent. Adjust equipment to deliver fog particles of 8 - 20 microns mass median diameter. Consult the following chart for dilution and application rates.

Treatment lb ai/A of Scourge Wanted SBP-1382/PBO	Fl oz/A of Finished Spray to be Applied	Dilution Scourge	Volume Solvent	Application Rate - Fl oz/Min	
				5 mph	10 mph
0.001/0.003	0.5 (15 ml)	1 part	4.5 parts	1.5 (44.4 ml)	3.0 (88.7 ml)
	1.0 (30 ml)	1 part	10 parts	3.0 (88.7 ml)	6.0 (177.4 ml)
	3.0 (90 ml)	1 part	34 parts	9.0 (266.2 ml)	18.0 (532.3 ml)
0.00175/0.00525	0.5 (15 ml)	1 part	2.37 parts	1.5 (44.4 ml)	3.0 (88.7 ml)
	1.0 (30 ml)	1 part	5.74 parts	3.0 (88.7 ml)	6.0 (177.4 ml)
	3.0 (90 ml)	1 part	19.2 parts	9.0 (266.2 ml)	18.0 (532.3 ml)
0.0035/0.0105	0.5 (15 ml)	1 part	0.68 parts	1.5 (44.4 ml)	3.0 (88.7 ml)
	1.0 (30 ml)	1 part	2.33 parts	3.0 (88.7 ml)	6.0 (177.4 ml)
	3.0 (90 ml)	1 part	9 parts	9.0 (266.2 ml)	18.0 (532.3 ml)
0.007/0.021	0.6 (18 ml)	—	—	1.8 (53.2 ml)	3.6 (106.5 ml)
	1.0 (30 ml)	1 part	0.68 parts	3.0 (88.7 ml)	6.0 (177.4 ml)
	3.0 (90 ml)	1 part	4.0 parts	9.0 (266.2 ml)	18.0 (532.3 ml)

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

NOTE: One gal (3.79 L) of product treats up to 1510 A (611 ha) for adult mosquito control.

For best results, fog when air currents are 2 - 8 mph (3.2 - 12.9 kph). It is preferable to fog during early morning and evening when there is less breeze and convection currents are minimal. Arrange to apply the fog in the direction with breeze to obtain maximum swath length and better distribution. Direct spray head of equipment in a manner to insure even distribution of the fog throughout the area to be treated. Avoid prolonged inhalation of fog.

Where practical, guide the direction of the equipment so that the discharge nozzle is generally maintained at a distance of more than 6 feet (1.83 m) from ornamental plants and 5 - 15 feet (1.5 - 4.5 m) or more from painted objects. Temperature fluctuations will require periodical adjustment of equipment to deliver the desired flow rate at the specified speed of travel. The flow rate must be maintained to insure the distribution of the proper dosage of finished formulation.

Spray parks, campsites, woodlands, athletic fields, golf courses, swamps, tidal marshes, residential areas and municipalities around the outside of apartment buildings, restaurants, stores and warehouses. Do not spray on cropland, feed or foodstuffs. Avoid direct application over lakes, ponds and streams.

DIRECTIONS FOR STABLE FLY, HORSE FLY, DEER FLY CONTROL:

Treat shrubbery and vegetation where above flies may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Application of this product to any body of water is prohibited.

For control of adult flies in residential and recreational areas, apply this product undiluted at a rate of 36 oz/hr (1.065 L/hr) by use of a suitable ULV generator traveling at 5 mph (8 kph) or at a rate of 72 fl oz/hr (2.129 L/hr) while traveling at 10 mph (16 kph). When spraying, apply across wind direction approximately 300 ft (91.4 m) apart. Apply when winds range from 1 - 10 mph (1.6 - 16.0 kph). Repeat for effective control.

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DIRECTIONS FOR USE OF AIRCRAFT

This product is used in specially designed aircraft capable of applying ultra low volume of finished spray formulation for control of adult mosquitoes (including organophosphate resistant species), midges (biting and non-biting) and black flies. Aerial application should be made preferably in the early morning or evening. It is not recommended to make application when wind speeds exceed 10 mph (16 kph). Repeat applications should be made as necessary. Apply preferably when temperatures exceed 50°F (10°C). 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. Do not spray on cropland, feed or foodstuffs. Avoid direct application over lakes, ponds and streams.

USE OF FIXED WING AIRCRAFT OR HELICOPTERS

Thoroughly mix 25.5 fl oz (755 ml) of this product with 102.5 fl oz (3030 ml) of light mineral oil of 54 second viscosity, refined soybean oil or other suitable solvent. For a treatment rate of 0.007 lb ai/A (7.85 g/ha) SBP-1382 plus 0.021 lb ai/A (23.55 g/ha) piperonyl butoxide technical, apply at a rate of 3 fl oz/A (219 ml/ha). For a treatment rate of 0.0035 lb ai/A (3.93 g/ha) SBP-1382 plus 0.0105 lb ai/A (11.77 g/ha) piperonyl butoxide technical, apply at a rate of 1.5 fl oz/A (109.5 ml/ha).

MIXING INSTRUCTIONS FOR PRODUCT IN AIRCRAFT USAGE

This product is used diluted in mineral oil of 54 second viscosity, refined soybean oil or other suitable solvent.

Fl oz/A of Finished Spray to be Applied	lb ai/A Wanted SBP-1382/PBO	Volumetric Dilution Needed	
		Product	Solvent
0.5 (15 ml) *	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
	0.007/0.021 - Apply as is 0.6 fl oz (17.7 ml)/acre		
1.0 (30 ml)	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 (90 ml)	0.0011/0.003	1 part	34 parts
	0.00175/0.00525	1 part	19.2 parts
	0.0035/0.0105	1 part	9 parts
	0.007/0.021	1 part	4 parts

NOTICE. Buyer assumes all responsibility for safety and use not in accordance with directions.

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