



# Scourge<sup>®</sup>

**INSECTICIDE**

## The Scourge Advantage

**When you need low impact and high performance against the toughest adult mosquitoes.**

### FAST KNOCKDOWN

Get relief from biting mosquitoes in approximately 5 minutes, and see significant reductions in landing rates 15-30 minutes after application.

### EXCELLENT CONTROL OF THE TOUGHEST MOSQUITO SPECIES\*

Research demonstrates that mosquitoes that receive a sub-lethal dose usually lose their legs, resulting in poor flight and feeding ability. Scourge also controls other biting flies such as blackflies, deer flies, stable flies and midges.

\* See tables on opposite side.

### EASY TO APPLY

Scourge can be applied by ground or aerial application equipment. It's available in a ready-to-use formulation, or concentrate that can be diluted with light mineral oil or other acceptable diluent.

### LOW IRRITATION LEVEL

It is not a "primary irritant," meaning it has very low irritant properties to eyes, skin, nose and throat. This expands your application flexibility with reduced after-spray complaints.

### EXCELLENT RESISTANCE FIGHTER

Scourge has a unique active ingredient that can help prevent mosquito resistance when rotated with different classes of chemistry as part of an integrated control program.

### EXCELLENT SUSTAINABLE ATTRIBUTES

Resmethrin, the active ingredient, is non-persistent and not soluble in water. Its half-life is approximately 30 minutes.

### NON-CORROSIVE

Scourge will not damage car paint or corrode spray equipment when used according to label directions, saving you time and money.

### LOW DOSE

Application rates range from 0.0015 to 0.007 lbs resmethrin/A.

### LOW RISK TO NON-TARGET ANIMALS

Scourge is one of the least toxic mosquito adulticides to non-target animals available. It does not harm wildlife or birds at field use rates. The oral LD 50 for rats is 4250 mg/kg of body weight. Plus, Scourge exhibits relatively low toxicity to aquatic life during actual field operations.

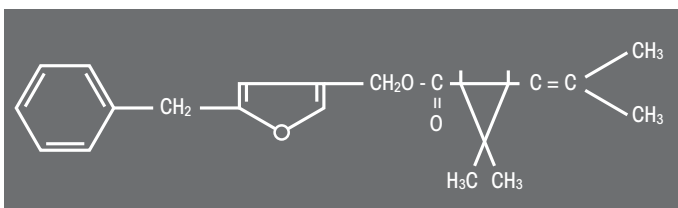
### LOW RISK TO BEES

Field data indicates that ULV application of Scourge at 10 times the application rate presents low risk to honey bees.

### BACKED BY BAYER

When you use Scourge, you're Backed by Bayer and all the science and technical support that comes with it. It's Science for a Better Life™.

## The Main Active Ingredients in Scourge is Resmethrin



The addition of the synergist PBO (piperonyl butoxide) enhances its insecticidal activity. A first-generation pyrethroid, resmethrin is structurally derived from natural pyrethrins, and has been proven effective against a wide variety of mosquito species. Extensive laboratory testing has determined the optimal ratio of Resmethrin to PBO is 1:3.

For a copy of the Scourge EPA label, material safety data sheet or more information, go to [BackedbyBayer.com](http://BackedbyBayer.com) or call 1-800-331-2867.



**TWO SCOURGE FORMULATIONS**

The choice is yours – both are registered for **GROUND** and **AERIAL** applications.

1	<p>Scourge Concentrate 18% + 54%</p> <ul style="list-style-type: none"> <li>Can be readily diluted in light mineral oil or any suitable oil diluent</li> <li>Allows for a selection of economical diluents (e.g. soybean oil)</li> <li>Requires a minimum of chemical storage space</li> <li>Contains 1.51 lb/gal Resmethrin</li> <li>Correct spread factor: 0.60 (mineral oil dilutions), 0.63 (soybean oil dilutions)</li> </ul>
2	<p>Scourge Ready-To-Use 4% + 12%</p> <ul style="list-style-type: none"> <li>Eliminates concerns over dilution</li> <li>For situations where mixing facilities are remote or unavailable</li> <li>The spread factor for Scourge 4% + 12% is 0.60.</li> <li>Contains 0.3 lb/gal Resmethrin, and can be applied at 0.5 to 3.0 fluid oz/A</li> <li>Correct spread factor: 0.60</li> </ul>

**SCOURGE AERIAL APPLICATION EFFECTIVENESS AGAINST SELECTED MOSQUITO SPECIES.\***

State	Diluent	Dosage lbs ai/acre	Species	Average % Control	Equipment
New Jersey	Mineral Oil	0.00175	Aedes sollicitans	91	Fixed Wing Teejets
	Mineral Oil	0.0035	Aedes sollicitans	99	Fixed Wing Teejets
Louisiana	Orchex®	0.0035	Aedes albopictus	100	Fixed Wing Teejets
Montana	Natural Oil	0.0026	Aedes dorsalis	99	Helicopter Teejets
California	Mineral Oil	0.0035	Culex tarsalis	90	Fixed Wing Teejets
	Cottonseed Oil	0.0035	Culex peus	100	Fixed Wing Teejets
	Mineral Oil	0.006	Aedes nigromaculis	93	Fixed Wing Teejets
New York	Orchex	0.0035	Cq. perturbans	99	Fixed Wing Teejets
Arkansas	Orchex	0.002	An. quadrimaculatus	92	Fixed Wing Beecomist
Alabama	Mineral Oil	0.0035	Aedes aegypti	100	Fixed Wing Beecomist

**SCOURGE GROUND APPLICATION EFFECTIVENESS AGAINST SELECTED MOSQUITO SPECIES.\***

State	Diluent	Dosage lbs ai/acre	Species	Average % Control
Arkansas	Mineral Oil	0.00175	An. quadrimaculatus	86
Florida	Mineral Oil	0.00175	Ae. taeniorhynchus	93
	Mineral Oil	0.0035	Ae. taeniorhynchus	91
	Mineral Oil	0.0035	Cx. quinquefasciatus	81
	Mineral Oil	0.007	Ae. taeniorhynchus	100
Texas	Soybean Oil	0.0022	Cx. quinquefasciatus	88
Louisiana	Soybean Oil	0.00125	Cx. species	98
Michigan	Mineral Oil	0.007	Culex pipens	90
Ohio	n/a (RTU)	0.0023	Aedes vexans	94

\* Scourge application rates may vary depending on the species being treated, physical location and environmental conditions. Consult your local Scourge distributor for specific recommendations.

