

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
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	18.0%
**Piperonyl Butoxide	54.0%
OTHER INGREDIENTS:‡	28.0%
TOTAL:	100.0%

‡ 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. 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

55 Gallons

SKU# 04192744

80913354A 120917AV1

BACKED
by BAYER™

PARA AL USUARIO: 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	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give any liquid to the person.• Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 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.

[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 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 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.

(continued on back label)

PAGE 1 of 2

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, aerial, 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 (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 18% + 54% 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 18% + 54% 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 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 Insecticide with RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% 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.

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

USE OF FIXED WING AIRCRAFT OR HELICOPTERS**UNDILUTED**

SCOURGE Insecticide with RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF FORMULA II 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 Insecticide with RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF FORMULA II 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 part
	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	19.2 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:

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.

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.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT OF THE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Produced for:
Bayer Environmental Science
 A Division of Bayer CropScience LP
 2 T. W. Alexander Drive
 Research Triangle Park, NC 27709



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
102000004839

1/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE
COMPANY/UNDERTAKING**

Product identifier

Trade name SCOURGE® INSECTICIDE WITH RESMETHRIN/PIPERONYL
BUTOXIDE 18% + 54% MF FORMULA II

Product code (UVP) 05952174

SDS Number 102000004839

EPA Registration No. 432-667

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

**Emergency Telephone
Number (24hr/ 7 days)** 1-800-334-7577

**Product Information
Telephone Number** 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Flammable liquids: Category 4
Carcinogenicity: Category 2



Signal word: Warning

Hazard statements

Combustible liquid
Suspected of causing cancer.



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10200004839

2/12
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Precautionary statements

Keep away from open flames/hot surfaces. - No smoking.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
IF exposed or concerned: Get medical advice/ attention.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Piperonyl butoxide	51-03-6	54.0
Resmethrin	10453-86-8	18.0
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	24.8
Naphthalene	91-20-3	2.8

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move 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 physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	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 physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.



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10200004839

3/12
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Most important symptoms and effects, both acute and delayed

Symptoms The following symptoms may occur:, Headache, Nausea, Diarrhoea, Drowsiness, Vomiting

Indication of any immediate medical attention and special treatment needed

Risks Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Carbon dioxide (CO₂), Dry chemical, Foam, Water spray

Unsuitable None known.

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point 74 °C

Autoignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Explosivity not applicable



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Version 3.0 / USA
10200004839

4/12
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Isolate hazard area. Keep unauthorized people away. Remove all sources of ignition.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion Take measures to prevent the build up of electrostatic charge.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.



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5/12
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Piperonyl butoxide	51-03-6	500 ppm (TWA)		OES BCS*
Resmethrin	10453-86-8	6.1 mg/m3 (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	2560ug/m3 (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	460ppb (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	256ug/m3 (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	46ppb (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50ug/m3 (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	200ug/m3 (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	38ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	10ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	0.5 mg/m3/0.1 ppm (TWA PEL)	10 2014	US CA OEL
Naphthalene	91-20-3	10 ppm		OES BCS*



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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection Chemical resistant nitrile rubber gloves

Eye protection Safety glasses with side-shields

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige to brown
Physical State	Liquid
Odor	mild
Odour Threshold	no data available
pH	no data available
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	ca. 1.00 g/cm ³ at 20 °C
Bulk density	8.41 lb/gal
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	insoluble
Minimum Ignition Energy	not applicable



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
10200004839

7/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

Decomposition temperature	no data available
Partition coefficient: n-octanol/water	not applicable
Viscosity	35.6 mPa.s at 21 °C
Flash point	74 °C
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	no data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong reducing agents, Strong oxidizing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Ingestion, Skin Absorption, Eye contact, Inhalation
Immediate Effects	
Eye	Moderate eye irritation.
Skin	May cause slight irritation. Harmful if absorbed through skin.
Ingestion	Harmful if swallowed.
Information on toxicological effects	
Acute oral toxicity	LD50 (rat) > 2,700 mg/kg
Acute inhalation toxicity	LC50 (male/female combined rat) > 2.6 mg/l Exposure time: 4 h



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
10200004839

8/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

Determined in the form of liquid aerosol.
Highest attainable concentration.
No deaths

Acute dermal toxicity	LD50 (rabbit) > 2,000 mg/kg
Skin irritation	Slight irritation (rabbit)
Eye irritation	Minimally irritating. (rabbit)
Sensitisation	Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.
Resmethrin did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Resmethrin was not genotoxic in a battery of in vitro tests.

Assessment carcinogenicity

Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.
Resmethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Naphthalene	91-20-3	Group A3
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NTP

Naphthalene	91-20-3
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IARC

Piperonyl butoxide	51-03-6	Overall evaluation: 3
Naphthalene	91-20-3	Overall evaluation: 2B

OSHA

None.

Assessment toxicity to reproduction

Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.
Resmethrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals.

Assessment developmental toxicity

Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.
Resmethrin caused developmental toxicity only at dose levels toxic to the dams.

Further information

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
10200004839

9/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability	Piperonyl butoxide: not rapidly biodegradable Resmethrin: not rapidly biodegradable
Koc	Piperonyl butoxide: Koc: 399 - 830 Resmethrin: Koc: 100000
Bioaccumulation	Piperonyl butoxide: Potential bioaccumulation Resmethrin: Bioconcentration factor (BCF) 68 Does not bioaccumulate.
Mobility in soil	Piperonyl butoxide: Moderately mobile in soils Resmethrin: Immobile in soil
Environmental precautions	Do not allow to get into surface water, drains and ground water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
10200004839

10/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR

NA-Number	1993
Packaging group	III
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATES, NAPHTHALENE)
RQ	Reportable Quantity is reached with 3,571 lb of product.

IMDG

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (RESMETHRIN SOLUTION)

IATA

UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (RESMETHRIN SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-667



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
10200004839

11/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

US Federal Regulations

TSCA list

Piperonyl butoxide	51-03-6
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5
Naphthalene	91-20-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Piperonyl butoxide	51-03-6	1.0%
Resmethrin	10453-86-8	1.0%
Naphthalene	91-20-3	

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Resmethrin	10453-86-8
Naphthalene	91-20-3

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Resmethrin	10453-86-8	Developmental toxin.
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US State Right-To-Know Ingredients

Piperonyl butoxide	51-03-6	NJ, RI
Resmethrin	10453-86-8	NJ, RI
Naphthalene	91-20-3	CA, CT, IL, MN, NJ, RI

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

Naphthalene	91-20-3	100 lbs
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Clean Water Section 307 Priority Pollutants

Naphthalene	91-20-3
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Safe Drinking Water Act Maximum Contaminant Levels

Naphthalene	91-20-3
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EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:



**SCOURGE® INSECTICIDE WITH
RESMETHRIN/PIPERONYL BUTOXIDE 18% + 54% MF
FORMULA II**

Version 3.0 / USA
102000004839

12/12
Revision Date: 07/28/2015
Print Date: 08/11/2015

Signal word: Caution!

Hazard statements: Harmful if swallowed or absorbed through skin.
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 2 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 2 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 07/28/2015

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