

 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20004</p> <p><b>NOTICE OF PESTICIDE:</b>  <u>  X  </u> Registration  <u>     </u> Reregistration</p> <p>(under FIFRA, as amended)</p>	EPA Reg. Number:  <b>72567-15</b>	Date of Issuance: <b>SEP 16 2004</b>
	Term of Issuance: <b>Conditional</b>	
	<b>Sumo EC</b>	
Name and Address of Registrant (include ZIP Code): <b>Plexus Services, Inc.</b> <b>P.O. Box 3474</b> <b>Deland, FL 32720</b>		
<p><b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p><b>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</b></p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> <li>2. Make the labeling changes listed below before you release the product for shipment: <ol style="list-style-type: none"> <li>a. Add the phrase "EPA Registration No.72567-15"</li> <li>b. Add "Do not allow spray treatment to drift on pastureland, cropland, (other than crops listed) or water supplies." following the prohibition not to apply within 100 ft xxx etc.</li> </ol> </li> </ol>		
Signature of Approving Official:		Date:

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3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Enclosure

# SUMO® EC

For Application only by Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs

A Synergized Synthetic Pyrethroid Formulation using Permethrin.

- For Effective Control of Adult Mosquitoes (including organophosphate resistant mosquitoes), Midges (Biting and Non-Biting) and Blackflies.
- For Space Spray Applications by Ground Equipment for Adult Mosquito Control.
- For Space Spray Applications by Aerial Equipment for Adult Mosquito Control
- Unique Components Allow Dilution with Water Rather than Oil
- Uses Water as a Diluent.
- For Barrier and Surface Applications.
- Quick and Effective Knockdown and Control of Target Insects.
- Compatible with FFAST®<sup>1</sup> Technology
- May be applied Undiluted or Diluted with Water.
- ULV applications provide excellent control at Rates up to 0.007 pounds per acre.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
SEP 16 2004

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under FIFRA Reg. No.

72567-15

SUMO® is a registered trademark of Plexus Services, Inc.

<sup>1</sup>FFAST® is a registered trademark of Bayer AG

## ACTIVE INGREDIENTS:

\*Permethrin .....20.6%

\*\*Piperonyl Butoxide Technical.....20.6%

INERT INGREDIENTS:.....58.8%

TOTAL..... 100.0%

\*(3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl)2,2-Dimethyl cyclopropanecarboxylate.

Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

\*\*Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds

Contains 1.75 pounds of Permethrin and 1.75 pounds of Piperonyl Butoxide per gallon.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente. (To the User: If you cannot read English, do not use this product until the label has been fully explained to you.)

## See Side Panel for Additional Precautionary Statements

Manufactured By:  
Plexus Services, Inc.  
P.O. Box 3474  
Deland, FL 32720

EPA Registration No. 72567-15  
EPA Establishment No.

Net Contents:

<b>FIRST AID</b>	
If Swallowed:	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
If on Skin or Clothing:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

**PRECAUTIONARY STATEMENTS**

Hazards to Humans and Domestic Animals

**CAUTION**

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing.

Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated sites may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment rinsate.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PHYSICAL AND CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**HOW TO APPLY AND WHERE TO USE**

**SUMO EC** is designed for application as an Ultra-Low Volume (ULV) aerosol to control adult mosquitoes and flies in residential, industrial, urban, recreational and other areas where adult mosquitoes and flies are found.

**SUMO EC** is also recommended for application with mist-blowers, backpack sprayers, handheld sprayers, and low-pressure hand sprayers for barrier or surface applications. **SUMO EC** is used for control of mosquitoes and flies of public health or disease vector importance in areas such as but not limited to residential areas, industrial areas, urban areas, parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, and other areas where adult mosquitoes and flies occur.

Revised Label as per EPA Letter Aug. 3, 2004

**SUMO EC** can be applied over specific growing crops and range grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can only be made where the following crops are present:

Almonds	Leafy Vegetables
Apples	Lettuce
Broccoli	Mushrooms
Brussels sprouts	Onions, dry bulb
Cabbage	Peaches
Celery	Pears
Cauliflower	Peppers, bell
Cherries	Soybeans
Corn, fodder	Tomatoes
Corn, forage	Vegetables, cucurbit
Corn grain	Walnuts
Eggplant	
Range Grasses	

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

Do not apply this product within 100 feet (30 meters) of lakes and streams.

**SUMO EC** provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn flies, and nuisance flying insects such as houseflies.

Aerosol droplet size of **SUMO EC** application may be determined using generally acceptable methods such as but not limited to AIMS, PC-DCIII, Magnesium oxide or Teflon coated glass slides. When droplet sizing using either an AIMS or PC-DCIII, the machine should be adjusted to the oil setting for the neat **SUMO EC** and all dilutions. When using coated glass slides, an adequate volume of air should be sampled by using, for example, rotating slide impingers. Depending on the apparatus used, follow manufacturer's instructions for obtaining droplet measurements. Slides should be examined microscopically and the diameter of droplets measured in microns. Slides should be scanned until at least 200 droplets have been sized. If using Teflon coated slides a spread factor of 0.61 should be used to correct droplet diameters. If using magnesium oxide coated slides a spread factor of 0.86 should be used. The optimum droplet size range is from 8 to 30 microns by the volume median diameter (VMD) calculation.

All types of applications shall be conducted at temperatures between 50-95° 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. 84% of the spray droplets shall be between 6 and 18 microns. The VMD should be 8-25 microns. No more than 3% of the droplets should exceed 50 microns. Apply at a rate not to exceed 0.007 pounds of permethrin per acre. An optimum swath is created when **SUMO EC** is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of the 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 close to the ground. An inversion of air temperatures and a light breeze is preferable. During applications ground wind speeds should not exceed 10 MPH. Application during cooler hours of the night or early morning is recommended. Re-apply when recommended by Public Health Officials or Mosquito Abatement Districts.

**SUMO EC** 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 **SUMO EC**, the flow rate of the insecticide from the application equipment and the vehicle speed. Examples are given in the following table. If an alternate rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within the label specifications. Do not exceed a flow rate of 20 oz. per minute unless recommended by equipment manufacturers and/or Public Health Officials when undiluted or diluted and high vehicle speeds of 10, 15 or 20 mph are necessary in emergency conditions, and when fogging equipment is capable of such high rates of output per minute.

<b>FLOW RATE (Fluid Ounces Per Minute)</b>						
Dilutions Base on a 15 Gallon Tank*						
Application Rate (lbs. per Permethrin/Acre)	Vehicle Speed (MPH)	Undiluted	Diluted 1:3	Diluted 1:5	Diluted 1:6.5	Diluted 1:14
0.0015	5					
	10	0.70	2.60	4.20	5.25	10.50
	15	1.05	4.20	6.30	7.88	15.75
	20	1.40	5.60	8.40	10.50	21.00
0.0035	5					
	10	1.63	6.52	9.78	12.25	24.45
	15	2.45	9.80	14.70	18.38	36.75
	20	3.25	13.00	19.50	24.38	49.00
0.007	5					
	10	3.25	13.00	9.50	24.38	N/A
	15	4.89	19.56	14.80	25.57	
	20	6.53	26.12	19.50	49.00	

\*Dilution Instructions: Fill tank ¼ full of water, add **SUMO EC**, finish filling tank. Use of metering pump or FFAST® system optional.

Where dense vegetation is present, the use of the higher rate and/or a slower speed is recommended. Applications should be conducted when temperatures are between 50-95° F.

**BACKPACK SPRAYER APPLICATION:** Apply through non-thermal ULV application equipment and base acreage calculations on a 50-foot swath. Dilute **SUMO EC** with water and apply at the rate of 8 ounces of finished spray per acre (based on a 50 foot swath, 8 ounces should be applied while walking 870 feet). To apply 0.0035 pounds of permethrin per acre, dilute 1 part **SUMO EC** with 15 parts of water and apply at the rate listed above.

**THERMAL AEROSOL APPLICATION:** For use in thermal fogging equipment, such as truck or trolley mounted handheld or other thermal fogging equipment. Apply this product mixed with water at a rate not to exceed 0.007 lbs. per acre. For maximum control, direct the fog to drift into areas where adult mosquitoes are found.

**BARRIER APPLICATIONS:** For control and exclusion of resting or flying adult mosquitoes in areas such as animal quarters, roadsides, urban areas, residential areas, industrial areas, golf courses, parks, recreational areas, tire piles and all public areas where adult mosquitoes may occur. May be used to treat aggregation and harborage areas such as the perimeter of residential buildings, storage buildings, empty rail cars, truck transport trailers, abandoned buildings and other areas where adult mosquitoes find harborage.

For application to resting or aggregation surfaces using low pressure hand sprayers or other similar equipment which has demonstrated the capacity to deliver an even distribution of the labeled rate over the desired treatment area, mix 2.8 oz. in one gallon of water and apply sufficient spray to dampen surface, approximately 700-750 square feet of treated area. For application using backpack or truck-mounted mistblower equipment apply undiluted product at a rate not to exceed 7.7 oz. per acre or diluted at a rate not to exceed 0.1 lbs. permethrin a.i. per acre. Direct spray onto foliage at the perimeter of areas from which mosquitoes or flies are to be excluded or direct spray into harborage areas or resting areas where adult mosquitoes or flies may be found.

**URBAN ULV MOSQUITO CONTROL APPLICATIONS:** For control of resting or flying adult mosquitoes, biting flies and biting midges in areas such as utility tunnels, sewers, storm drains and catch basins, pipe chases, underground basements, underground passages, parking decks, crawl spaces or uninhabited buildings. **SUMO EC** may be applied using mechanical foggers, hand-held or truck-mounted ULV equipment, thermal foggers or other spray equipment suitable for this application. Apply **SUMO EC** at rates up to but not exceeding 0.007 lbs. permethrin per acre.

**AERIAL APPLICATION:** **SUMO EC** may be applied either diluted or undiluted at rates of 0.0035 lbs. to 0.007 lbs. Permethrin/PBO per acre by fixed wing or rotary aircraft that are capable of making a ULV application. For aerial applications of **SUMO EC** the use of ULV equipment and nozzles such as rotary atomizer or similar type that produce droplet VMD's less than 60 microns is recommended. Aerial application of **SUMO EC** should be made at an altitude of 100-300 feet. Do not apply when ground wind speed exceeds 10 MPH. Applications shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs. Applications shall be made when temperatures are between 50° F and 95° F.

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 into target area, aerial application with aircraft equipped with Global Positioning Systems (GPS) is recommended.

Always clean equipment after use to ensure against contamination.

Revised Label as per EPA Letter Aug. 3, 2004

**IN FLORIDA:** Do not apply by aircraft except in emergency situations and with the approval of the Florida Department of Agriculture and Consumer Services.

#### **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:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by 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 incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.