

53883-83

9/28/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Amy Warren  
Regulatory Affairs Specialist  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

SEP 28 2009

Subject: Label Notifications for Pesticide Registration Notice 2007-4

Dear Ms. Warren,

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated August 3, 2009 for the following products:

<b>Permethrin 2.5 E.W.C.</b>	<b>(EPA Registration Number 53883-77)</b>
<b>Permethrin 2.5 E.W.</b>	<b>(EPA Registration Number 53883-79)</b>
<b>CSI™ 2-2 ULV</b>	<b>(EPA Registration Number 53883-83)</b>

The Registration Division (RD) has conducted its review of these requests for their applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The labels submitted with the applications have been stamped "Notification" and will be placed in our records.

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 nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

2009

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide - Section I**

1. Company/Product Number 53883 - 83	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CSI 2-2 <u>uLV</u>	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507-1041 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

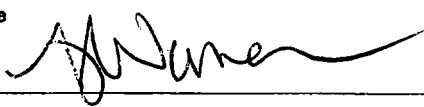
<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  <b>SEP 28 2009</b>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 pint -250 gallon totes		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Amy Warren	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) 800-242-5562
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Affairs Specialist	
4. Typed Name Amy Warren	5. Date 08-03-09	



August 3, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Re: Notification per (PR) Notice 2007-4, Labeling Revisions required by the Final Rule  
"Pesticide Management and Disposal"  
CSI 2-2 (EPA Reg. No. 53883-83)**

Dear Sir or Madam:

Enclosed is a Notification for (PR) 2007-4; See highlighted text on attached labeling.

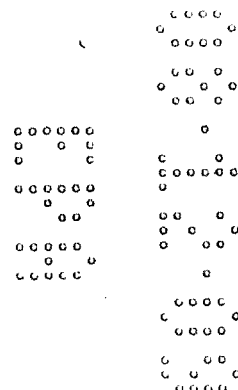
Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

We have also updated the Warranty Statement.

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Amy Warren  
Regulatory Affairs Specialist  
Control Solutions, Inc.



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# NOTIFICATION

## CSI™ 2-2 ULV

SEP 28 2009

For use only by federal, state, tribal, or local governmental 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.

This product is Ready-To-Use as a quick knockdown, low odor, non-corrosive, synergized, synthetic pyrethroid for the control of Adult Mosquitoes, Biting and Non-Biting Midges and Black Flies and other outdoor flying insects as listed on this label which cause Public Health annoyance in Residential, Municipal and Recreational areas.

### READY TO USE!

EPA Reg. No 53883-83

EPA Est. No. 53883-TX-002

#### ACTIVE INGREDIENTS:

Permethrin CAS [52645-53-1].....	2.0%
Piperonyl Butoxide Technical CAS [51-03-6].....	2.0%

<b>OTHER INGREDIENTS:*</b> .....	<b>96.0%</b>
<b>TOTAL:</b> .....	<b>100.0%</b>

\*Contains a Petroleum Distillate Solvent.

Contains 0.143 lb. A.I. Permethrin plus 0.143 lb A.I. Piperonyl Butoxide per gallon.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

See [Side Panel] [Inside Attached Booklet] For Additional Precautionary Statements.

**"PRECAUCION AL USUARIO:** Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente." (If you do not understand the label, find someone to explain it to you in detail.)

### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person. This is due to the presence of petroleum distillate.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<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>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Hotline Number:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	
<b>Note to Physician:</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

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

CAUTION: Contains petroleum distillate. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. 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.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the 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.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use, pour, spill or store near heat or open flame.

**DIRECTIONS FOR USE**

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

Note: 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.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
**Pesticide Storage:** Store product in its original labeled container in a cool, dry, locked place designated for such insecticides and out of reach of children. Do not expose to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust, or fuller's earth; sweep up and place in a labeled container and dispose of as follows.  
**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:**  
**For Containers equal to or less than 5 Gallons :** Nonrefillable container. Do not reuse or refill this container. Clean container 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 water 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. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.  
**For Containers greater than 5 Gallons:** Nonrefillable container. Do not reuse or refill this container. Clean container 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 water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30

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seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other 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. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**For Bulk containers: (Refillable Container)** Refill this container with pesticides 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 re-filler. 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 water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

### CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

**CSI 2-2 ULV** is recommended for application as an Ultra Low Volume (U.L.V.) Thermal or Non-thermal aerosol (cold fog) to control adult mosquitoes, and other insects as listed on this label, in residential and recreational areas where these insect pests become a problem; such as, but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, and non-crop waste areas. For best results; treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the fog close to the ground. e.g. cool temperatures and wind speeds not greater than 10 mph. Applications during the cool hours of night or early morning are usually preferable. Apply this product at temperatures greater than 50° F and when wind speed equals or exceeds 1 mph.

Do not re-treat a site more than once in 12 hours. Do not apply more than 0.18 lbs. of permethrin per acre per year to any site. 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.

**CSI 2-2 ULV** 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	Range Grasses	
Apples	Leafy Vegetables, (except Brassica)	
Broccoli	Lettuce, head	), , , ,
Brussels sprouts	Mushrooms	), , , ,
Cabbage	Onions, dry bulb	), , , ,
Celery	Peaches	), , , ,
Cauliflower	Pears	), , , ,
Cherries	Peppers, bell	), , , ,
Corn, fodder	Soybeans	), , , ,
Corn, forage	Tomatoes	), , , ,
Corn grain	Vegetables, cucurbit	), , , ,
Eggplant	Walnuts	), , , ,

Do not spray this product on or allow it to drift onto pastureland, cropland (other than crops listed), or potable water supplies. In the treatment of corrals, feedlots, animal confinements/houses, swine lots, poultry ranges and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.

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### GROUND APPLICATION INSTRUCTIONS

**DROPLET SIZE CALIBRATION FOR GROUND APPLICATION EQUIPMENT:** Spray equipment must be adjusted so that the volume median diameter is less than 25 microns (Dv 0.5 < 25 um) and that 90% of the spray is contained in droplets smaller than 40 microns (Dv 0.9 < 40 um). 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.

For proper ground application mount the fog applicator so that the nozzle is at least 4 1/2 feet above ground level and directed out the back of the vehicle. May be applied at speeds of 5 to 20 mph. Failure to follow these label directions may result in reduced effectiveness. For aerial application refer to the **Aerial Application** section on this label. **CSI 2-2 ULV** may be used as is, or diluted with a suitable solvent such as 60 to 100 Second viscosity mineral oil and applied at a rate not to exceed 6.27 fl. oz. of **CSI 2-2 ULV**, per acre. Both aerial and ground applications should be made when the wind is less than 10 mph. For exact rates, see the "UNDILUTED" or the "1 to1 DILUTION" rate charts on this label.

### ULV NON-THERMAL AEROSOL (COLD FOG)

To control Mosquitoes, Midges, and Blackflies apply **CSI 2-2 ULV** using any standard ULV ground applicator capable of producing a non-thermal aerosol fog.

When applying this product undiluted, apply at a flow rate of 5.42 to 37.97 ounces per minute at an average vehicle speed of 10 mph. These rates are equivalent to 0.001 to 0.007 pound a.i. per acre. If a different vehicle speed is used, adjust the rate accordingly. Vary flow rates accordingly to vegetation density and mosquito population. Use of the maximum flow rates and application rates listed on this label is recommended to treat heavy vegetation or when target insect populations are high. An accurate flow rate control system must be used to ensure proper flow rate. **CSI 2-2 ULV** may also be applied by diluting, 1 part to 1 part of a 60 to 100 Second mineral oil or another suitable solvent, applied so as not to exceed the maximum a.i. rates per acre as shown in the rate charts. If an alternate dilution rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remain within label specifications. Do not exceed a low rate of 20 oz. per minute unless recommended and required by equipment manufacturers and/or Public Health Officials when undiluted or diluted 1 to 1 and high vehicle speeds of 10, 15 or 20 mph are necessary in emergency conditions and when the fogging equipment is capable of such higher rates of output per minute.

### THERMAL AEROSOL FOGGING

**Truck Mounted-**Apply **CSI 2-2 ULV** diluted or undiluted with suitable Thermal Fogging equipment. Droplet size of thermal "fog" will range from 0.1 to 1.0 micron. If diluted, use a 60 to 100 Second viscosity mineral oil, or another suitable non-phytotoxic diluent, to reduce oil requirement and sludge buildup in equipment. Do not exceed the maximum rates. May be applied at speeds of 5 to 20 mph. For use with **Hand Carried** and/or **Lawn Mower Foggers**, use the same rates a.i. per acre with a 50 foot swath width at walking speed of 2 mph. Do not fog wet foliage. Do not fog when wind conditions exceed 10 mph. Only use a clean, well maintained and properly calibrated fogger known to give excellent performance. Fog downwind. Apply **CSI 2-2 ULV** to deliver 0.001 to 0.007 lb. a.i. per acre.

### RATES CHART FOR CSI 2-2 ULV USE, UNDILUTED

CONDITIONS AND RATES TO USE CSI 2-2 ULV UNDILUTED for MOSQUITO CONTROL						
Permethrin lbs. A.I.	PBO acre	Application Rates Fluid Ounces per Minute				Fluid Ounces and (milliliters) per acre
		5 mph	10 mph	15 mph	20 mph	
0.00700	0.00700	19.00	37.97	59.96	75.95	6.27 (185.30 mL)
0.00350	0.00350	9.49	18.99	28.48	37.97	3.13 (92.65 mL)

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0.00175	0.00175	4.75	9.49	14.24	18.99	1.57 (46.32 mL)
0.00100	0.00100	2.71	5.42	8.14	10.85	0.90 (26.47 mL)

**1 TO 1 DILUTION\* RATES FOR CSI 2-2 ULV**

<b>MIX 1 PART CSI 2-2 ULV WITH 1 PART OF A SUITABLE MINERAL OIL. APPLY AS FOLLOWS:</b>						
lbs. A.I. per/acre		Application Rates				Fluid Ounces finished spray per acre
		Fluid Ounces per Minute at Vehicle Speeds				
Permethrin	PBO	5 mph	10 mph	15 mph	20 mph	
0.00700	0.00700	37.97	75.95	113.92	151.90	12.53
0.00350	0.00350	18.99	37.97	56.96	79.95	6.27
0.00175	0.00175	9.49	18.97	28.48	37.97	3.13
0.00100	0.00100	5.42	10.85	16.27	21.70	1.79

\* This product will not dilute with water.

**USE AS AN INSECT BARRIER TREATMENT**

For use in Non-Thermal ULV, motorized, portable, backpack, fog type, mist blower equipment apply **CSI 2-2 ULV** with equipment adjusted to deliver ULV particles of 50 to 100 volume median diameter. **CSI 2-2 ULV** may be applied undiluted or diluted (see Application Rates charts on this label). If diluted use a 30 to 100 Second viscosity mineral oil, or another, (if recommended by Public Health Officials), suitable non-phytotoxic diluent. Use 0.001 to 0.007 pound a.i. per acre at a 50 ft. (15.2 m) swath width, while walking at a speed of 2 mph (3.2 kph). When this product is applied as a barrier treatment, do not apply within 100 feet (30 meters) of lakes and streams.

**AERIAL APPLICATION INSTRUCTIONS**

Aerial application with **ULTRA LOW VOLUMES** of **CSI 2-2 ULV** applied according to the rates charts on this label may be considered necessary, when conducted at the discretion of Public Health Officials, Mosquito Abatement Districts, or other trained personnel engaged in outdoor mosquito and flying insect control programs, when these insects threaten to become a public health hazard.

**DROPLET SIZE CALIBRATION FOR AERIAL APPLICATION EQUIPMENT:** Spray equipment must be adjusted so that the volume median diameter produced is less than 50 microns (Dv 0.5 < 50 um) and that 90% of the spray is contained in droplets smaller than 90 microns (Dv 0.9 < 90 um). 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. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Applications should be made by suitable aerial ULV equipment with a minimum spray boom height of 100 feet from the ground for fixed wing or rotary aircraft. Flow rate should be set so as to achieve 0.90 to 6.27 fluid ounces **CSI 2-2 ULV** per acre of undiluted product. For fixed wing and rotary aircraft with flat fan or rotary nozzles, apply at a sufficient airspeed to deliver the appropriate amount of a.i./acre (0.001 to 0.007 lb. a.i./acre) and to achieve the appropriate droplet range as prescribed by this label.

**PROHIBITION ON AERIAL USE IN FLORIDA:** Not for aerial application in the State of Florida unless specifically authorized by the Florida Bureau of Entomology and Pest Control and the Florida Department of Agriculture and Consumer Services.



