



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Jane Miller  
Agent for Control Solutions, Inc.  
c/o Biologic, Inc.  
115 Obtuse Hill  
Brookfield, Connecticut 06804

MAR 26 2007

Dear Ms. Miller,

Subject: Label Amendment to add PR Notice 2005-1 Recommendations  
CSI 2-2 ULV  
EPA Reg. No. 53883-83  
Submission dated March 23, 2007

The label amendment above, submitted in connection with the Federal Insecticide, Rodenticide, and Fungicide Act is acceptable provided you make the following changes before releasing product bearing the amended labeling for shipment.

1. Page 2
  - a. Delete the duplicate phrase "Note to the Physician"
  - b. Environmental Hazard Statement. Change "Do not apply to blooming crops or weeds while bees are visiting the area, ..." to read

*"Do not apply this product or allow it to drift to blooming crops or weeds while bees are visiting the treatment area,..."*

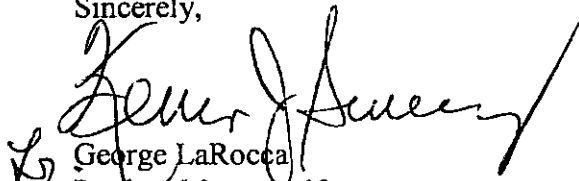
2. Page 5
  - a. Aerial applications. In the sentence *"For fixed wing and rotary aircraft with flat fan or rotary nozzles, apply at sufficient airspeed to deliver the appropriate amount of a.i./acre (0.00175 to 0.007 lbs. ai/acre) and to achieve the appropriate droplet range as prescribed by this label."* change "0.00175 to 0.001" to agree with the flow rate and a.i./acre recommendations

2 7 8

Please note that a notice of availability of EPA's reregistration eligibility document (RED) for products containing permethrin was published in the FR on June 28, 2006 (Vol. 71 No. 124 pg. 36788). The availability of the piperonyl butoxide RED was published in the FR on July 26, 2006 (Vol. 71, No. 143 pg. 42385). Additional data and/or labeling changes may be required for products containing permethrin and/or piperonyl butoxide.

A stamped copy of the label is enclosed for your records. Please submit 2 copies of the final printed label as soon as possible. If you have any questions, please contact Kevin Sweeney at (703) 305-5063. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "George LaRocca". The signature is written in a cursive style with a long horizontal stroke at the end.

George LaRocca  
Product Manager 13  
Registration Division (7505P)  
Insecticides Branch

Enclosure

**CSI™ 2-2 ULV**

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.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**MAR 26 2000**

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

53883-83

**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%

**OTHER INGREDIENTS:\***.....96.0%

**TOTAL:** .....100.0%

\*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.)

<b>FIRST AID</b>	
<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>
<p><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 call 1-800-858-7378 for emergency medical treatment advice.</p>	

**Note to Physician: Note to Physician:** Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

**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 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.

**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 fullers 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:** (Metal) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

(Plastic) Triple rinse or equivalent. 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.

### 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 on or allow 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.

### 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 ( $Dv\ 0.5 < 25\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 40 microns ( $Dv\ 0.9 < 40\ \mu m$ ). 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 ½ 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 to 1 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)
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**

MIX 1 PART CSI 2-2 ULV WITH 1 PART OF A SUITABLE MINERAL OIL. APPLY AS FOLLOWS:						
lbs. A.I. per/acre		Application Rates Fluid Ounces per Minute at Vehicle Speeds				Fluid Ounces finished spray per acre
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 (0.00175 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.

**WARRANTY NOTICE – READ ENTIRE LABEL BEFORE USING**

To the extent provided by law, 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. [Optional Marketing Language].

**DISCLAIMER OF WARRANTIES:** CONTROL SOLUTIONS, INC. WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. INEFFECTIVENESS OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF CONTROL SOLUTIONS, INC. TO THE FULLEST EXTENT PERMITTED BY LAW, CONTROL SOLUTIONS, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE

PRODUCT SOLD, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, BUYER'S OR USER'S EXCLUSIVE REMEDY AND CONTROL SOLUTIONS, INC. TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. [Optional Marketing Language].

**Net Contents \_\_\_\_\_ Gallons**

**Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507**