

53883-83

01/15/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

53883-83

Date of Issuance:

JAN 15 2003

**NOTICE OF PESTICIDE:**  
  X   Registration  
       Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

CSI 2-2 ULV

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, Texas 77507-1041

**Note:** 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.

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.

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

a. Under ULV NON-THERMAL AEROSOL(COLD FOG) change "becessary" to "necessary" and "mergbrency" to "emergency".

Signature of Approving Official:

Date:

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We note that you will submit storage stability data within one year of registration.

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

# CSI<sup>TM</sup> 2-2 ULV

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For Application only by Public Health Officials, and Trained and Qualified Personnel of Mosquito Abatement Districts and Other Mosquito Control Personnel. This product is Ready-To-Use as an all temperature, Quick knockdown, Low odor, Non-corrosive, Synergized, synthetic Pyrethroid for control of Adult Mosquitoes, Biting and Non-Biting Midges, Black flies and other outdoor flying insects as listed on this label which cause Public Health annoyance in Residential, Municipal and Recreational Areas.

READ ENTIRE LABEL BEFORE USING

## Ready-To-Use!

### ACTIVE INGREDIENTS:

Permethrin; [CAS 52645-53-1] - - - - - 2.0%  
Piperonyl Butoxide Technical; [CAS 51-03-5] - - - 2.0%

OTHER INGREDIENTS: - - - - - 96.0%

Total 100.0%

Contains 0.137 lb. A.I. Permethrin plus 0.137 lbs. A.I. Piperonyl Butoxide /Gal.

\* Contains a \*Petroleum Distillate Solvent

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"  
(If you do not understand the label, find someone to explain it to you in detail).

### FIRST AID

**IF SWALLOWED** - Call a Poison Control Center or doctor immediately for treatment advice. Do not give any liquid to the person. This is due to the presence of petroleum distillate. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES** - Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** 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 INHALED:** Move person 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 poison control center or doctor for further treatment advice.

**HOT LINE NUMBER:** 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. See below for additional Precautionary Statements

**NOTE TO PHYSICIAN:** \*\*Solvent presents an aspiration hazard. Gastric lavage is indicated if material was taken internally. 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 repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash before reuse.

#### 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 washwaters.

**BEE WARNING:** 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 treatment area.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill 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.

#### 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 wastes 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. 11-18-02

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

EPA Reg. No.53883-83 EPA Est. No. 53883-TX-1

Net contents \_\_\_\_\_ Gallons

JAN 15 2003

**Control Solutions, Inc.**  
5903 Genoa Red Bluff - Pasadena, TX 77505 U.S.A.

Under the Federal Insecticide, Fungicide, and Rodenticide Act registered under 245

53883-83

This product will not dilute with water.

# CSI 2-2 ULV

EPA Reg. No. 53883-83 EPA Est. No. 53883-TX-1

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./Acre	PBO lbs. A.I./Acre	Application Rates				Fluid Ounces and (milliliters) per acre
		Fluid Ounces per Minute at mph				
		5 mph	10 mph	15 mph	20 mph	
0.00700	0.00700	19.0911	38.1822	57.2733	76.3644	6.3637 (188.1969 ml)
0.00350	0.00350	9.5457	18.0914	28.6371	38.1828	3.1819 (94.1000 ml)
0.00175	0.00175	4.7727	9.5454	14.3181	19.0908	1.5909 (47.0485 ml)
0.00100	0.00100	2.7273	5.4546	8.1819	10.9092	0.9091 (26.8853 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:						
pounds a.i. PERMETHRIN	per acre PBO	Application Rates				Fluid oz. finished spray per acre
		Fl. oz. per Minute at Vehicle Speeds				
		5 mph	10 mph	15 mph	20 mph	
0.0070	0.00700	35.0001	70.0002	105.0003	140.0040	11.6667
0.00350	0.00350	17.5002	35.0004	52.5006	70.0008	5.8334
0.00175	0.00175	8.7501	17.5002	26.2503	35.7004	2.9167
0.00100	0.00100	5.0001	10.0002	15.0003	20.0004	1.6667

### HOW TO APPLY

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 m.p.h. up to 20 m.p.h. 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 a 60 to 100 Second viscosity mineral oil and applied at a rate not to exceed 6.3637 fl. oz. of CSI 2-2 ULV, per acre. Both aerial and ground applications should be made when the wind is less than 10 M.P.H. For exact rates, see the "UNDILUTED" or the "1 to 1 DILUTION Rates charts on this label.

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. Do not apply this product within 100 feet (30 Meters) of lakes and streams. Do not allow spray to drift on pastureland cropland, poultry ranges or potable water supplies. 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 are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are usually preferable. Repeat treatment when recommended by Public Health Officials or Mosquito Abatement Districts.

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

To control Mosquitoes, Midges and Blackflies apply CSI 2-2 ULV using any standard U.L.V. ground applicator capable of producing a non-thermal aerosol fog with droplets ranging in size from 5 to 30 microns in diameter and a mass median diameter (MMD) of 15 to 20 microns, (droplets should not exceed 50 microns and less than 5% of drops should be below 5 microns), with an application swath width of 300 feet. Silicon slides should be required for calibration. Droplet size of application may be determined using the following procedure. Droplet size should be sampled using Teflon coated glass slides: An adequate amount of air should be sampled by using, for example, rotating rod samplers. Other sampling techniques, such as AMES machine, may be used if authorized by local authorities. Slides are examined microscopically and the diameter of droplets measured in microns. Slides should be scanned until 100 to 200 droplets have been assessed. A spread factor of 0.61 should be used to correct droplet diameters. The largest droplet should not exceed 50 microns and less than 5% of the droplets should be below 5 microns. A 90% value of the droplets should be in the range of 5 to 30 microns in size.

When applying this product undiluted, apply at a flow rate of 5.4546 to 38.1822 ounces per minute at an average vehicle speed of 10 M.P.H. These rates are equivalent to 0.001 to 0.007 pound of permethrin a.i. and 0.001 to 0.007 pound of piperonyl butoxide 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 higher flow rates in heavy vegetation or when 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 rates 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 flow rate of 20 oz. per minute unless recommended by equipment manufacturers and / or Public Health Officials when undiluted or diluted 1 to 1 and high vehicle speed speeds of 10, 15, or 20 m.p.h. are necessary in emergency condition and when fogging equipment is capable of such higher rates of output per minute. (11-26-02)

Control Solutions, Inc. -

5903 Genoa Red Bluff - Pasadena, TX 77505 U.S.A.

FOR SIDE OF CONTAINER  
**CSI™ 2-2 ULV**  
EPA Reg. No. 53883-83 EPA Est. No. 53883-TX-1

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Label copy unit 3 of 3

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### 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 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 m.p.h. up to 20 m.p.h. For use with **HAND CARRIED** and/or **LAWN MOWER FOGGERS**, use the same rates of A.I. per acre with a 50 foot swath width at a walking speed of 2 m.p.h. Do not fog to wet foliage. Do not fog when wind conditions exceed 10 miles per hour. Only use a clean, well maintained, and properly calibrated Fogger, known to give excellent performance. Fog down wind. Apply **CSI 2-2 ULV** to deliver 0.001 to 0.007 lb. of Permethrin a.i. and 0.001 to 0.007 lb. Piperonyl Butoxide a.i. per acre.

### 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 mass 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 .007 pound Permethrin A.I. per acre at a 50 ft. (15.2 m) swath width, while walking at a speed of 2 m.p.h. (3.2 k.p.h.). Whether applied undiluted or diluted, or at a different speed, make sure that the same amount, (0.001 to 0.007 lb.) of Permethrin a.i. and Piperonyl Butoxide a.i. is applied per acre.

### \*\*AERIAL APPLICATION

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. Application should be made by suitable aerial U.L.V. equipment capable of producing droplets with an MMD of 50 microns or less with no more than 2.5% exceeding 100 microns at an altitude of 120 to 175 feet depending on the terrain and weather conditions. The recommended airspeed for Fixed Wing aircraft with flat fan nozzles is from 120 to 160 mph. For Rotary Aircraft equipped with rotary nozzles, apply at a sufficient airspeed to deliver the appropriate amount of **CSI 2-2 ULV** a. i. per acre. Do not exceed 6.3637 fluid ounces per acre of **CSI 2-2 ULV** which is equal to 0.007 lb. permethrin a.i. and 0.007 lb. piperonyl butoxide a.i.) per acre.

**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 the Florida Department of Agriculture and Consumer Services.

#### READ ENTIRE LABEL BEFORE USING

Read the entire **Directions for Use, Conditions, Disclaimer of Warranties, and Limitation of Liability** before using this product. By using this product, user and buyer accept the following **Conditions, Disclaimer of Warranties and Limitations of Liability**.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However it is impossible eliminate all risks associated with the use of this product. 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 **Control Solutions, Inc.** All such risks shall be assumed by the user or buyer.

**Disclaimer of Warranties:** There are no warranties express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the statements made on this label.

No agent of **Control Solutions, Inc.** is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

**Control Solutions, Inc.** disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

**LIMITATION OF WARRANTIES:** 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, or at **Control Solutions, Inc.'s** option, the replacement of the product. (11-26-02)

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