

	<p align="center"><b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  Office of Pesticide Programs  Registration Division (7505P)  1200 Pennsylvania Ave., N.W.  Washington, D.C. 20460</p>	EPA Registration No.  53883-278	Date of Issuance:  DEC 15 2010
<p align="center"><b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> Registration  <input type="checkbox"/> Reregistration  (under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</p>		Term of Issuance: <p align="center"><b>Conditional</b></p>	
Name and Address of Registrant (include ZIP Code): <b>Jane M. Miller, Agent</b> <b>Control Solutions, Inc.</b> <b>c/o Biologic, Inc.</b> <b>115 Obtuse Hill</b> <b>Brookfield, CT 06804</b>		Name of Pesticide Product:  <b>CYPER LO</b>	
<p><small>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.</small></p>			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered 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>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(a) provided that you:</p> <p align="center">(See comments on pages 2-3)</p> <p>A copy of your label stamped "Accepted with Comments" is enclosed for your records.</p>			
Signature of Approving Official:  <b>Refer to Page 3</b>  Richard J. Gebken, Product Manager Registration Division, Insecticide Branch		Date:  DEC 15 2010	

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments listed below.

1. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 53883-278"
- b. Per the recommendations of the Agency's acute toxicity review (copy enclosed) and classification of the product as a Category II eye irritant, revise the Personal Protective Equipment Statement to include "protective eyewear (goggles and/or face shield and/or shielded safety glasses with front, brow, and temple protection)" for All pesticide handlers (mixers, loaders, and applicators).
- c. Revise the Hazards to Humans and Domestic Animals Statement as follows: "May be fatal if swallowed. Causes skin irritation. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if inhaled. Avoid breathing spray mist. Do not get in eyes or on skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- d. Per the recommendations of the Agency's product chemistry review (copy enclosed) Revise the Physical and Chemical Hazards Statement to include the word "Combustible".
- e. Revise the Directions for Use for Food handling establishments on page 23 in accordance with the Guidance of PR Notice 73-04 as follows:

Revise the 'Food Areas' statement to read as follows:

"Food Areas

Cyper LO is not labeled for use in food areas. Do not use in food areas of food handling establishments. Food areas of food handling establishments include areas for receiving, serving, storage (dry, cold, frozen, raw), packaging (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, grinding), edible waste storage, enclosed processing systems (mills, dairies, edible oils, syrups)."

- f. Delete the entire statement for treatment of Cluster flies on page 24; this statement contradicts the use restriction against applying this product with fogging equipment.
- g. Revise the following statements within Warranty Statement on page 27 as follows:

- 1. "TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF . . . ."
- 2. "TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, . . . ."
- 3. "To the extent consistent with applicable laws, Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to . . . ."

2. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
3. Within sixteen (16) months of the date on this NOR, provide to the Agency acceptable data packages for Guideline Studies as follows:
  - a. OPPTS 830.6317 (Storage Stability)
  - b. OPPTS 830.6320 (Corrosion Characteristics).

If acceptable data is not submitted within 16 months of this NOR, this registration will expire on April 15, 2012.

Two copies of the finished labeling must be submitted prior to releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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. If you have any questions, you may contact Clayton Myers, at (703) 347-8874, or via email at [myers.clayton@epa.gov](mailto:myers.clayton@epa.gov).

Sincerely,



for Richard Gebken  
Product Manager  
Insecticide Branch  
Registration Division (7505P)

**Enclosures**  
Stamped Label  
Agency Acute Toxicity Review  
Agency Product Chemistry Review

# CYPER LO

## LOW ODOR

For control of listed subterranean and above ground insects in, on and around structures, including lawns and landscape uses. For Crack, Crevice and/or Spot application for residual and contact control of ants, carpenter ants, cockroaches, crickets, spiders and other listed insects

For subterranean termite control, product is to be used by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product.

**Active Ingredient:**

Cypermethrin: <sup>1</sup> (±)α-cyano-(3-phenoxyphenyl)methyl(+)- <i>cis,trans</i> -3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate*	26.0%
<b>Other Ingredients:</b> .....	<u>74.0%</u>
<b>Total</b>	<b>100.0%</b>

<sup>1</sup>Pyrethroid Insecticide  
 Contains petroleum distillates.  
<sup>1</sup>*Cis/trans* ratio: Min. 45% (±) *cis* and max. 55% (±) *trans*

Cyper LO contains 2 lbs. active ingredient per gal., formulated as an emulsifiable concentrate.

### KEEP OUT OF REACH OF CHILDREN

### WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 53883-~~XXX~~278

EPA Est. No. XXXXX

Product of XXXXX  
Formulated in the USA

Net Contents

Manufactured by:  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**ACCEPTED**  
**With COMMENTS**  
 In EPA Letter Dated:  
 DEC 15 2010  
 Under the Federal Insecticide, Fungicide  
 and Rodenticide Act, As amended, for the  
 pesticide Registered under EPA Reg. No:  
53883-278

<b>FIRST AID</b>	
<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 eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<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.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 further treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
Contains petroleum distillate — vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
You may contact SafetyCall <sup>®</sup> International (866) 897-8050 for emergency medical treatment information.	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**WARNING/AVISO**

Causes substantial but temporary eye injury. Do not get in eyes or on skin or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). May be fatal if swallowed. Harmful if absorbed through the skin or inhaled. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove and wash contaminated clothing before reuse.

## Personal Protective Equipment

All pesticide handlers (mixers, loaders, and applicators) must wear:

- a chemical-resistant apron or long-sleeved coveralls worn over a minimum of short-sleeved shirt and short pants,
- socks, chemical-resistant footwear,
- chemical-resistant gloves.

Regular work shirts, pants, socks, shoes and waterproof gloves are sufficient after the product is diluted in accordance with label directions for use and/or when mixing and loading using a closed spray tank transfer system, or an in-line injector system.

When working in a non-ventilated space, all pesticide handlers must wear:

- a respiratory protection device<sup>1</sup>
- protective eyewear (goggles and/or faceshield and/or shielded safety glasses with front, brow and temple protection) when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

<sup>1</sup> Use one of the following:

- a NIOSH approved respirator with a N, R, P or HE filter
- a NIOSH approved respirator with an organic-vapor (OV) approved cartridge or canister with N, R, P or HE prefilter
- TC-19C (Supplied-air)
- TC-13F (Self-contained breathing apparatus-SCBA)

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean-up is completed.

## Environmental Hazards

This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply Cyper LO or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service. Apply this product only as specified on this label.

**For Treatment of Preconstruction Lumber and Logs:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### **Physical and Chemical Hazards**

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.

### **PRECAUTIONS AND RESTRICTIONS**

- **For Application to Vinyl Siding**, prior to application, treat a small area on each side of the structure where weathering is most severe, allow to dry, and observe for staining. Some types of vinyl siding, particularly if aged or weathered, may show some staining after application of an emulsifiable concentrate product. To completely eliminate the potential risk associated with staining, it is suggested that a water-based product be used.
- Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application. Do not treat when raining or when rain is expected within 8 hours.
- For best results, thoroughly wash out sprayer and screen with water and detergent before using Cyper LO.
- Do not use water base sprays of Cyper LO in or on conduits, motor housings, junction boxes, switch boxes, or other live electrical equipment because of possible shock hazard.
- Remove pets, birds, and cover aquariums before spraying indoors.
- **DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.**
- Do not apply to pets, crops or sources of electricity.

- Do not allow people or pets on treated surfaces until the spray has completely dried.
- Do not use concentrate or emulsion in fogging equipment.
- In the home, all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before reuse.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.
- Do not allow spray to contact food, food stuffs, food contacting surface, food utensils or water supplies.
- Do not use in warehouses where raw or cured tobacco is stored.
- Do not use in warehouses while raw agricultural commodities for food or feed are being stored.
- During indoor surface application, do not allow dripping or run-off to occur. During any application to overhead interior areas of structure, cover surface below with plastic shielding or similar material.
- When using indoors, do not make a broadcast surface application to cover entire floors, carpets, or walls with product dilution. Indoor surface treatments with Cyper LO should be limited to no more than 20% of surface area.
- When applied at the recommended indoor rate (0.1%), Cyper LO will not cause damage to any painted or varnished surface, plastic, fabric or other surface, when water applied alone causes no damage.
- If applicator is within an enclosed area (non-ventilated) during application, wear PPE consistent with that described under **PRECAUTIONARY STATEMENTS, Personal Protective Equipment**.
- Do not apply this product in any rooms being used as living, eating, sleeping or recovery area by patients, the elderly or infirm when they are in the room.
- Do not apply to classrooms when in use.
- Do not apply to aircraft cabins.



## PRODUCT INFORMATION

Cyper LO provides control of subterranean termites (including eastern subterranean, western subterranean, desert termite, and Formosan subterranean termite), and when applied to wood, may be used for spot treatment of drywood termites (*Incisitermes* spp.).

To institute a barrier between the wood and the termites in the soil, the chemical dilution must be effectively dispersed in the soil. It is important to remove unnecessary materials that contain cellulose and wood from around foundation walls, crawl spaces (inside of structure), and porches, and fix damaged plumbing and construction grade in order to deny termite access to moisture.

To use this product effectively, it is important that the service technician be familiar with current termite control practices including trenching, rodding, sub-slab injection, low-pressure spray application, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. Using these techniques correctly is essential to prevent or control infestations by subterranean termite species of genera *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. When determining what procedures to follow, the service technician should consider certain variables such as biology and behavior of the termite specie, structure design, heating ventilation, and air conditioning (HVAC) systems, water table, soil type and compaction, grade conditions, and the location and type of domestic water supplies and utilities.

For advice concerning current control practices with relation to the specific local conditions, consult resources in structural pest control and the State regulatory agency.

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## SUBTERRANEAN TERMITE CONTROL (including Eastern, Western and Formosan termites)

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### USE INSTRUCTIONS

Apply a 0.25%-0.50% emulsion to establish subsurface termite control barriers as specified on product labeling.

Avoid contamination of public and private water supplies by following these precautions:

- Use anti-backflow equipment or procedures to prevent siphonage of pesticide back into water supplies.
- Do not treat soil beneath structures that contain wells or cisterns.
- Care must be taken to avoid runoff. Do not treat soil that is water-saturated or frozen. Do not treat while precipitation is occurring.
- Care should be taken that the treatment solution is not introduced into the gravel and/or pipe drainage system which may be located on the exterior of the foundation in close proximity to the footing of the structure.

Consult State and local specifications for recommended distance of treatment

areas from wells or if such regulations do not exist, refer to Federal Housing Administration Specifications for guidance.

**MIXING DIRECTIONS**

Mix the termiticide in the following manner:

1. Fill tank 1/4 to 1/2 full with water.
2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of Cyper LO.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2-3 minutes.

**USE DILUTIONS**

Emulsion Concentration (% active)	Tank Size							
	1 Gal.		25 Gal.		50 Gal.		100 Gal.	
	Cyper LO	Water	Cyper LO	Water	Cyper LO	Water	Cyper LO	Water
0.25	1.3 oz.	126.7 oz.	32.0 oz.	24.8 gal.	0.5 gal.	49.5 gal.	1.0 gal.	99.0 gal.
0.50	2.6 oz.	125.4 oz.	64.0 oz.	24.5 gal.	1.0 gal.	49.0 gal.	2.0 gal.	98.0 gal.
1.00	5.1 oz.	122.0 oz.	128.0 oz.	24.0 gal.	2.0 gal.	48.0 gal.	4.0 gal.	96.0 gal.

Common units of measure:  
 1 pint = 16 fluid ounces (oz.)  
 1 gallon = 4 quarts = 8 pints = 128 fluid ounces (oz.)

**APPLICATION VOLUMES**

To provide maximum control and protection against termite infestation, apply the specified volume of the finished water and active ingredient emulsion as set forth in the use directions section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same. See **Volume Adjustment Chart** for specific information.

**Note:** Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous barrier can still be achieved.

When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustments to account for lower volume dispersal of the termiticide in the soil. Volume adjustments at 1% are not recommended for subslab injection.

**Volume Adjustment Chart**

Volume Allowed	Rate (% Emulsion)		
	0.25%	0.5%	1.0%
Horizontal (gallons emulsion/10 sq. ft.)	1 gal.	0.5-1 gal.	0.25-0.5* gal.
Vertical (gallons emulsion/10 lin. ft.)	4 gal.	2-4 gal.	1-2* gal.

\*Not recommended for subslab injection.

**PRECONSTRUCTION SUBTERRANEAN TERMITE TREATMENT**

**Preconstruction Treatment: Do not apply this product as a pre-construction treatment in the state of Florida.**

To produce effective pre-construction subterranean termite control, create vertical and/or horizontal chemically treated zones of protection. Follow the current edition of the Housing and Urban Development Minimum Property Standards to assure that F.H.A. termite-proofing requirements are met.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

**APPLICATION RESTRICTIONS**

1. The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas.
2. The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: 1) if the concrete slab cannot be poured over the treated soil within 24 hours of application, the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.
3. Do not treat soil that is water-saturated or frozen.
4. Do not treat when raining.
5. Do not allow treatment to runoff from the target area.
6. Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic

habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marches or ponds; estuaries; and commercial fish farm ponds).

- 7. Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.

**DO NOT APPLY AT A LOWER DOSAGE AND/OR CONCENTRATION THAN SPECIFIED ON THIS LABEL FOR APPLICATIONS PRIOR TO THE INSTALLATION OF THE FINISHED GRADE.**

After grading is completed and prior to pouring of the slab, slab-supported or constructed porches, and other critical areas, make the following treatments:

**HORIZONTAL BARRIERS**

Establish a horizontal chemical barrier wherever treated soil will be covered by a slab, such as basement floors, carports, entrance platforms, footing trenches, and slab floors. Make application by a low-pressure spray (less than 50 p.s.i. at the nozzle).

Apply the emulsion at the rate of 1 gal./10 sq. ft. to fill dirt. If fill is washed gravel or other coarse material, apply the emulsion at the rate of 1-1/2 gal./10 sq. ft. If concrete slabs cannot be poured over soil the same day it has been treated, a waterproof cover, such as polyethylene sheeting, should be placed over the soil. This is not necessary if foundation walls have been installed around the treated soil.

**VERTICAL BARRIERS**

Vertical barriers may be established around the base of foundations, plumbing, back-filled soil against foundation walls, and other critical areas; applications may be made by trenching and rodding into the trench or trenching. Apply the emulsion at the rate of 4 gal./10 lin. ft./ft. of depth. For example, a footing 3 ft. deep would require 12 gal. of emulsion/10 lin. ft.

When treating foundations deeper than 4 ft., apply the termiticide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 ft. after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 ft. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray (less than 50 p.s.i. at the nozzle) may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

Soil should be treated around sewer lines, plumbing, or around any other utility extending from the soil through a slab.

## **HOLLOW MASONRY UNITS OF THE FOUNDATION AND/OR BASEMENT WALL (BELOW GRADE)**

**HOLLOW MASONRY UNITS OF THE FOUNDATION:** Hollow block voids may be treated at the rate of 2 gallons of emulsion per 10 linear feet so that the emulsion will reach the top of the footing. Treat so as to make a continuous chemical barrier in the voids.

You may drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of emulsion per 10 linear feet of footing using a nozzle pressure of less than 25 p.s.i. When using this treatment access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect area of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean up is completed.

Not for use in voids insulated with rigid foam.

### **CRAWL SPACES**

For crawl spaces apply at the rate of 4 gal. of emulsion/10 lin. ft./ft. of depth from grade to the top of the footing. Application may be made by trenching and rodding into the trench or trenching. If the footing is exposed at or above grade, application should be made with special care to avoid washout around footing. Treatment should include both sides of foundation and around all piers and pipes.

- Rod holes should be spaced to provide a continuous chemical barrier.
- Trench need not be wider than 6 inches nor below the foundation. The emulsion should be mixed with the soil as it is being replaced in the trench.

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### **POSTCONSTRUCTION TREATMENTS**

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Postconstruction applications may be made by subslab injection, trenching and rodding into the trench or trenching using low-pressure spray not exceeding 25 p.s.i. at the nozzle.

For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than 4 ft. below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of

4 ft. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Do not apply emulsion until location of heat or air-conditioning ducts, vents, and water and sewer (or plumbing) lines are known and identified. Caution must be taken to avoid contamination of these structural elements and airways.

### **After Treatment**

All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be in a non-cellulose material or covered by an impervious, non-cellulose material.

### **SLAB-ON-GRADE**

Apply the emulsion at the rate of 4 gal./10 lin. ft./ft. of depth. Application shall be made by sub-slab injection, trenching and rodding into the trench or trenching. Injectors should not extend below the tops of the footings.

Treat the soil from grade to the top of the footing along the outside and, where necessary, along the inside of the foundation perimeter. Treatment may also be required along one side of a partition wall (especially where the wall is connected to the floor by fixtures inserted in the slab) and along cracks, expansion joints, and other critical areas.

Drill holes should be spaced about 10-24 inches apart to provide a continuous chemical barrier. (For best results, application should be made with a lateral dispersion nozzle.)

Where necessary, drill through the foundation walls from the outside and inject the chemical just beneath the slab or along the inside of the foundation.

Along the outside of the foundation walls where shallow foundations exist (1 ft. or less), dig a narrow trench approximately 6 inches wide and not below the top of the footing. Apply the emulsion at the rate of 2 gal./10 lin. ft. As the soil is being replaced into the trench, apply another 2 gal./10 lin. ft. to the backfill.

When making soil applications to the foundations extending deeper than 1 ft., follow instructions under **Basements-Outside** Perimeter. (See exception for monolithic slabs immediately following.)

Note: For monolithic slab construction, a vertical barrier may be established along the outside of foundation walls from grade to the bottom of the monolithic poured concrete foundation. Where the foundation extends deeper than 1 ft., rod holes should not extend beneath the bottom of the monolithic poured concrete foundation.

## HOLLOW MASONRY UNITS OF FOUNDATION WALLS

Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gal. of emulsion/10 lin. ft. of footing using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean-up is completed.

Not for use in voids insulated with rigid foam.

When treating behind veneer, care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

## BASEMENTS

Apply the emulsion at the rate of 4 gal./10 lin. ft./ft. of depth from the grade to the top of the footing. For example, a footing 3 ft. deep would require 12 gal. of emulsion/10 lin. ft. Application shall be made by subslab injection, trenching, and rodding into the trench or trenching.

### Inside

Treatment may be required along inside of foundation walls and along one side of interior partition walls (or bearing walls) especially where the wall is connected by fixtures inserted in the floor. Application may also be necessary around sewer pipes, floor drains, conduits, or any cracks in the basement floor. Drill holes should be spaced about 10-24 inches apart to provide a continuous chemical barrier.

**Note:** Sandy soils will tend to give less lateral dispersion than clay soils. Spacing should be determined by soil type.

### Outside Perimeter

Applications must be made by trenching and rodding into the trench or trenching. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.

A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray (not exceeding 25 p.s.i.) may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

## ACCESSIBLE CRAWL SPACES

For crawl spaces, apply vertical termiticide barriers at the rate of 4 gal. of emulsion/10 lin. ft./ft. of depth from grade to the top of the footing, or if the footing is more than 4 ft. below grade, to a minimum depth of 4 ft. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

- Rod holes and trenches must not extend below the bottom of the footing.
- Rod holes must be spaced so as to achieve a continuous chemical barrier but in no case more than 12 inches apart.
- Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.
- When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

## INACCESSIBLE CRAWL SPACES

For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate, if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one, or a combination of the following two methods.

- To establish a horizontal barrier, apply to the soil surface, 1 gal. of emulsion/10 sq. ft. overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.
- To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gal. of emulsion/10 sq. ft. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.



It is recommended that inadequately ventilated crawl spaces be brought into compliance with FHA Minimum Property Standards specifying 1 sq. ft. of ventilator opening/150 sq. ft. of crawl space area.

**BATH TRAPS**

Where there is exposed soil beneath and around plumbing/waste pipe entrances through a concrete slab, this soil may be treated with 0.5% dilution of this product.

An access door for inspection and treatment should be cut and installed if not already present. After inspection and removal of any wood (form boards) or cellular debris, treat the soil by rodding and/or drenching with 0.5% emulsion of this product.

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**TERMITE RETREATMENT**

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Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary, depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

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**STRUCTURES WITH WELLS/CISTERNS INSIDE FOUNDATIONS**

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Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
  - a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
  - b) Treat the soil at the rate of 4 gal. of dilute emulsion per 10 lin. ft./ft. of depth of the trench, or 1 gal. per 1.0 cu. ft. of soil. See **Mixing** Directions section of the label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
  - c) After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

- 2. Treat infested and/or damaged wood in place using an injection technique Such as described in the **TREATMENT OF WOOD IN PLACE FOR CONTROL OF TERMITES, CARPENTER ANTS, CARPENTER BEES AND WOOD INFESTING BEETLES** section of this label.

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**STRUCTURES WITH ADJACENT WELLS/CISTERNS AND/OR OTHER WATER BODIES**

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Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

- 1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 ft. of grade.
- 2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.
- 3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

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**FOAM APPLICATIONS**

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Cyper LO emulsion may be converted to a foam and the foam used to treat voids to control or prevent termite, ant, bee, wasp infestations or other arthropods harboring under slabs.

Depending on the circumstances, foam applications may be used alone or in combination with liquid emulsion applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

Rates: Use a 0.25%-1.0% emulsion converted to foam with expansion characteristics from 2-20 times.

**Note:** When using a foaming product be sure that it is compatible with Cyper LO.

### **Applications Under Slabs or to Soil in Crawl Spaces**

- Applications should be made using Cyper LO foam in combination with liquid emulsion applications.
- The total amount of product applied with the combination of foam and liquid emulsion should be equivalent to that of an application using a liquid emulsion only.

### **Applications to Other Areas**

- Applications may be made using either Cyper LO foam alone or in combination with a liquid emulsion.
- Applications may be made behind veneers, piers (concrete or wood), chimney bases, into rubble foundations, into block voids, structural voids (i.e., between stud walls), poles, stumps, and wood in crawl spaces.
- Applications may be made in other areas, which include but are not limited to:
  - Foundations penetrated by utility services,
  - Cracks and expansion joints.
  - Bath traps.
  - Areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

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### **POSTS, POLES AND OTHER CONSTRUCTIONS**

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Application may be made to create a chemical barrier in the soil around wooden construction such as signs and landscape ornamentation by applying a 0.25-0.5% emulsion. Treat on all sides to create a continuous barrier around posts and poles.

Use 1 gal. of emulsion per ft. of depth for poles and posts less than 6 inches. in diameter. For larger poles, use 1-1/2 gal. of emulsion./ft. of depth. For larger constructions, use 4 gal./10 lin. ft./ft. of depth.

For treatments made during installation, the emulsion may be applied to the soil as it is replaced around the pole or post. Previously installed poles and posts may be treated by subsurface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous chemical barrier. Apply to a depth of 6 inches below the bottom of the wood.

Do not contaminate wells or cisterns.

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## UNDERGROUND SERVICES

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Soil treatment around underground services may be made using a 0.25%-0.5% Cyper LO emulsion to prevent attack by termites and ants.

Examples of underground services are wires, cables, utility lines, pipes and conduits. Services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) or installations of services.

Apply 2-4 gal. of emulsion/10 lin. ft. to the bottom of the trench and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2-4 gal./10 lin. ft. over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the service. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil conditions will not accept application of specified volume of 0.25% emulsion, the 0.5% emulsion may be applied at one-half the application rate or 2 gal./10 lin. ft.

Finish filling the trench with untreated fill soil. The soil where each service protrudes from the ground may be treated by trenching and rodding into the trench or trenching of no more than 1-2 gal. of emulsion into the soil.

**Precaution:** Do not treat electrically-active underground services.

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## TREATMENT OF WOOD IN PLACE FOR CONTROL OF TERMITES, CARPENTER ANTS, CARPENTER BEES AND WOOD INFESTING BEETLES

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In addition to subsurface applications, this product may be used for treating infested wood in place. It can be applied to wood by crack and crevice tool, coarse fan spray or injection. Overall broadcast spray applications must be limited to attics, crawl spaces, unfinished basements and similar generally unoccupied areas. In occupied indoor areas, treat wood trim and exposed beams by brush or coarse spray directed only onto the wood to be treated.

Use this spray at a rate of 1 gal. of diluted spray/1,000 sq. ft. of surface area.

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## CONTROL OF WOOD INFESTING BEETLES

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To control wood infesting insects such as powderpost beetle (*Lyctidae*), false powderpost beetles (*Bostrichidae*), deathwatch beetles (*Anobiidae*), old house borers (*Cerambycidae*) and ambrosia beetles (*Scolytidae*) in homes and other structures, apply as a 0.25% emulsion containing Cyper LO. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray. When spraying overhead interior areas of homes, apartment buildings, etc., cover all surfaces below the area being sprayed with plastic sheeting or other

material which could be disposed of by placing in trash if contamination from dripping occurs. Sprayed surfaces should be avoided until spray has totally dried. Do not use in structures occupied by animals to be used for food purposes or which produce products for human consumption.

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## **TERMITES ABOVE GROUND**

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For control of aerial colonies of subterranean termites (including Formosan termites) or for control of drywood termites in localized areas of infested wood in structures, apply as a 0.1%-0.25% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Application may be made to inaccessible areas by drilling, and then injecting the emulsion with a crack and crevice injector into the damaged wood or void spaces. Application to attics or crawl spaces, unfinished basements, or voids may be made with a coarse fan spray of 0.1%-0.25% emulsion to control subterranean termites in mud tubes or to kill winged forms of drywood termites. This type of application is not intended to be a substitute for soil treatment of subterranean termites. Make treatments at a rate of 1 gal. of the emulsion/1,000 sq. ft. of surface area.

For termites active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject 0.1% emulsion using treatment tool with a splashback guard.

Termite carton nests in trees or building voids may be injected with 0.25%-0.50% emulsion using a pointed injection tool. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

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## **CARPENTER ANTS**

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For control of carpenter ants in houses and other structures, apply as a 0.25% emulsion for protection up to 5 weeks, a 0.5% emulsion for protection up to 11 weeks, and a 1.0% emulsion for protection up to 1 year, with retreatment semiannually as needed, around doors and windows and other places where carpenter ants enter the premises and where they crawl. Spray into cracks and crevices or through openings or small drilled holes into voids where these ants or their nests are present. Use no more than a sufficient amount of coarse spray to cover the area thoroughly, but not to the point of runoff. Do not exceed 1 gal. of dilute emulsion/1000 sq. ft. of treated surface.

For carpenter ants active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject 0.25% emulsion, for protection up to 1 week, using a treatment tool with a splashback guard. Reapply under heavy reinfestation pressure.

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## **FIREWOOD PROTECTION FROM CARPENTER ANTS**

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Prior to laying in firewood, soil beneath the cord(s) may be treated with a 0.25%-0.50% emulsion at 1 gal./10 sq. ft. to prevent carpenter ant infestation.

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## **CARPENTER BEES**

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Use a 0.1% emulsion for control of carpenter bees. Liquid may be sprayed directly into gallery entrance holes. Following treatment, the entrance holes may be left open 24 hrs. to be certain that returning adult bees are killed. When there is no activity, the hole may be closed with wood putty.

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## **TREATMENT OF PRECONSTRUCTION LUMBER AND LOGS**

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To protect unseasoned lumber and logs from wood-destroying insects, such as termites, carpenter ants, and beetles (ambrosia, powder-post, old house borers, and others), totally treat wood with a 0.25% to 0.5% emulsion. This solution can be applied by various methods, including spraying, brushing, dipping and pressure treatment. Frequent monitoring of dip and pressure systems are necessary to ensure that the desired level of Cyper LO is maintained. Wood can be handled after treatment when dry.

1. For dip treatments, the wood should be totally submersed in the solution until thoroughly wet and then allowed to dry in a suitable location. Dipping solutions to which Cyper LO has been added should be agitated before use if left unused for long periods of time. Sediment, debris and other deposits should be periodically cleaned from the tank.
2. For pressure treatments, the wood should be placed in the treatment chamber, the Cyper LO solution added, and the system pressurized up to 250 p.s.i. for up to 1 hour, depending on the density and type of wood treated. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.
3. For spray treatments, the wood should be sprayed thoroughly, including back and ends.
4. For brush treatments, all parts of wood surfaces should be thoroughly treated.

\*Not approved for use in California.

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## **PEST CONTROL IN AND AROUND STRUCTURES**

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### **GENERAL INFORMATION**

For residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include but are not limited to:

- industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses
- the nonfood/feed areas of stores, warehouses, schools, nursing homes, hospitals (non-patient areas), restaurants, hotels, and food manufacturing, processing and servicing establishments, vessels, (ships, boats) railcars, trucks, trailers, aircraft (cargo and non-cabin areas only).

Do not use in commercial greenhouses or nurseries. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. Do not use on food or feed crops.

Cyper LO is intended for dilution with water for spray application.

Fill sprayer with the desired volume of water and add Cyper LO. Close and shake before use in order to insure proper mixing. Shake or re-agitate sprayer before use if spraying is interrupted. Make up only as required; repeat treatments when needed.

**KEEP CHILDREN AND PETS OFF TREATED SURFACES UNTIL DRY**

# APPLICATION INSTRUCTIONS

## USE RATES:

Pests	Dilution Rate
Ants Asian Cockroaches Boxelder Bugs Carpenter Ants Carpenter Bees Centipedes Chiggers <sup>b,c</sup> Cockroaches (Maintenance) Crickets Earwigs Elm Leaf Beetle Firebrats Fleas <sup>b</sup> Flies <sup>a</sup> Ground Beetles Millipedes Mosquitoes <sup>b</sup> Pillbugs Silverfish Sowbugs	1/2 fl. oz. (1 Tbsp.) Per 1 gal. water  (0.1% active ingredient)
Bees Cockroaches (Clean-out) Scorpions Spiders Ticks Wasps Wood Infesting Beetles	1 fl. oz. (2 Tbsp.) Per 1 gal. water  (0.2% active ingredient)

<sup>a</sup> Not for indoor use in California.

<sup>b</sup> Outdoor use only.

<sup>c</sup> Not approved for use in California.



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## INDOOR USE

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For crack and crevice and/or spot application for residual and contact control of ants, carpenter ants, cockroaches, crickets, spiders and certain other insect pests.

### **Cockroaches, Spiders, Crickets, Scorpions, Silverfish, Ticks and Firebrats**

Apply as a crack and crevice or spot application to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Also see **Outdoor Surfaces and Around Buildings**.

### **Ants**

Apply to any trails, around doors and windows and similar areas where ants (including carpenter ants) may be found. Refer to barrier treatment directions to prevent infestation; also see **Outdoor Surfaces and Around Buildings**.

### **Wasps and Bees**

Application to nests should be made late in evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight; also see **Outdoor Surfaces and Around Buildings**.

### **Boxelder Bugs, Sowbugs, Pillbugs, Millipedes, Elm Leaf Beetle and Centipedes**

Apply around doors and windows and similar areas where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations. Refer to barrier treatment directions to prevent infestation; also see **Outdoor Surfaces and Around Buildings**.

### **Flies**

Apply directly to walls, ceilings, window screens, and other fly resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see **Outdoor Surfaces and Around Buildings**.

### **Scorpions**

Treat and remove accumulations of lumber, firewood, and other materials which serve as harborage sites. Apply as a coarse spray thoroughly but not to the point of drip; also see **Outdoor Surfaces and Around Buildings**.

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**FOOD HANDLING ESTABLISHMENTS** (Places other than private residences in which food is held, processed, prepared or served.)

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**Nonfood Areas**

Cyper LO may be used as a general, spot or crack and crevice treatment in nonfood areas. Similar areas where insects hide or through which insects may enter should be treated. Examples of nonfood areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

**Food Areas**

Cyper LO is not labeled for use in food areas. Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Not for use in USDA meat and poultry plants.

Examples of food areas are areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

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**OUTDOOR USE**

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**Under Slabs**

Infestations of arthropods, such as ants, cockroaches and scorpions inhabiting under slab areas may be controlled by drilling and injecting or horizontal rodding and injecting, 1 gal. of 0.25%-0.5% emulsion/10 sq. ft. or 2 gal. of emulsion/10 lin. ft. Product may also be applied through under-structure insecticidal delivery systems such as piping or flexible tubing mounted under the structure. This treatment is not intended as a substitute for termite control.

**In Crawl Spaces**

Broadcast Cyper LO as a 0.25% to 0.5% emulsion to all surfaces in crawl spaces to control ants, fleas, cockroaches, scorpions, or other arthropods. Product may also be applied through under-structure insecticidal delivery systems such as piping or flexible tubing mounted under the structure. This treatment is not intended as a substitute for termite control. Treat surfaces thoroughly, but not to point of runoff.

### **Outdoor Surfaces and Around Buildings**

Apply Cyper LO as a 0.1% emulsion as a residual treatment to outside surfaces of buildings including, but not limited to, exterior siding foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns or grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential structures, commercial, industrial and institutional buildings. Application may be made to soil, trunks of woody ornamentals or other areas where pests congregate or have been seen. Base need for retreatment upon monitoring for pest presence. See **DIRECTIONS FOR USE: Caution on application to vinyl siding.**

### **Barrier Treatment For Pests Around Structures**

Apply Cyper LO as a 0.1% emulsion to a band of soil and vegetation 6-10 ft. wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2-3 ft. Use a treatment volume of 2-10 gal. per 1000 sq. ft. Higher volumes of water may be needed if mulch or leaf litter is present or dense foliage exists. House siding may be treated if boxelder bugs, elm leaf beetles, earwigs, silverfish or other similar pests are present. See **DIRECTIONS FOR USE: Caution on application to vinyl siding.**

### **Cluster Flies (*Calliphoridae* spp.)**

Apply to the outside of the structure where flies are found. Mix 1 fl. oz. Cyper LO to 10 fl. ozs. Deodorized light weight mineral oil. Apply to 1,000 sq. ft. of wall area. Use a fogging apparatus which delivers the material in a strong air carrier producing a small particle size (10-50 microns). Hold the nozzle about three feet from the surface to be treated. Apply when wind velocity is less than 2 mph to avoid drift.

Surfaces to be treated must be dry at the time of application. Attics and unoccupied lofts should be treated at the same time and same rate.

## LAWN AND LANDSCAPE PEST CONTROL

Pest	Specific Instructions and Recommended Use Rates
Chinch Bugs <sup>1</sup> Mole Crickets <sup>1</sup> Fleas Ticks	<p>For residential lawns, apply Cyper LO at the rate of 0.33-0.65 fl. oz. per 1000 sq. ft. in a volume of water sufficient for uniform coverage such as 3-20 gal. Use the lower rate to knock down pests and the higher rate where faster knockdown or greater residual is desired. Lawn should not be longer than 3 inches at the time of application. Base need for retreatment upon monitoring for pest presence. Application in combination with compatible surfactants may enhance penetration. Arid climates generally require the higher volume.</p> <p>For example refer to <b>Lawn Application Dilution Table.</b></p>
Ants Ant Mounds <sup>1</sup> Fire Ants <sup>1</sup>	<p>Drench Method (Ant Mounds, Fire Ants): Apply 1-2 gal. of 0.1% Cyper LO emulsion to each mound area by sprinkling the mound until it is wet. Treat a 2 ft. diameter circle around the mound. For mounds larger than 12 inches, the higher volume and wider treatment diameter (up to 4 ft.) may be needed. For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.</p>
Bark Beetles Borers Boxelder Bugs Elm Leaf Beetles Gypsy Moths (adults & caterpillars) <sup>1</sup>	<p>To control Boxelder Bugs, Elm Leaf Beetles, Gypsy Moth Caterpillars, apply Cyper LO as a 0.1% emulsion. Spray tree trunks, building siding or wherever pests congregate, thoroughly, but not to the point of runoff.</p> <p>Borers and Bark Beetles: To prevent infestation of trees and woody ornamentals, spray the bark, thoroughly, but not to the point of runoff using a 0.1% Cyper LO emulsion.</p>

<sup>1</sup> Not approved for use in California

**LAWN APPLICATION DILUTION TABLE: Cyper LO rate (oz.) for 100 gal. according to volume of application.**

Example: For a Chinch bug application at the rate of 0.65 oz. per 1000 sq. ft., using 5 gal. of solution per 1000 sq. ft. of lawn, use 13 oz. of Cyper LO in a 100 gal. tank. (1 fl. oz. equals 30 ml.).

Volume per 1000 ft <sup>2</sup>	Amount of Cyper LO		
	0.33 oz./1000 ft. <sup>2</sup>	0.5 oz./1000 ft. <sup>2</sup>	0.65 oz./1000 ft. <sup>2</sup>
5 gal.	6.5 oz.	10.0 oz.	13.0 oz.
8 gal.	4.0 oz.	6.5 oz.	8.0 oz.
10 gal.	3.5 oz.	5.0 oz.	6.5 oz.
15 gal.	2.0 oz.	3.5 oz.	4.5 oz.
20 gal.	1.5 oz.	2.5 oz.	3.5 oz.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable containers. Do not reuse or refill container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities. Triple rinse as follows:

**Non-refillable container less than or equal to 5 gallons:** 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.

**Non-refillable container greater than 5 gallons:** 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. 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 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.

**Refillable container:** Refill this container with pesticide 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 refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into

application equipment or rinsate collection system. Repeat this rinsing process two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking containers.

**WARRANTY STATEMENT**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

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