

70506-21

2/29/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460-0001



OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Ms. Rebecca A. Clemmer  
United Phosphorous, Inc.  
630 Freedom Business Center, ste 402  
King of Prussia, PA 19406

FEB 29 2012

Subject: Amended Reregistration Label  
Product Name: Cypermethrin 2.5 EC Termiticide/Insecticide  
EPA Registration Number: 70506-21  
EPA Decision Numbers: 397784

Dear Ms. Clemmer:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the cypermethrin RED, and has concluded that your submission is acceptable.

NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label or durably marked on the container itself, and can be added by non-notification per PRN 98-10.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated March 3, 2010


A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.

6(e).

If you have any questions about this letter, please contact Samantha Hulkower at 703-603-0683 or [hulkower.samantha@epa.gov](mailto:hulkower.samantha@epa.gov).

Sincerely,



 Richard J. Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)

*Enclosures: Label stamped "Accepted," dated  
Acute Toxicity Review, dated June 2, 2010  
Product Chemistry Review, dated March 3, 2010*

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**Restricted Use Pesticide**  
 Due to acute oral toxicity.

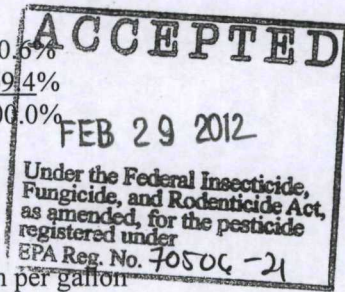
For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

GROUP	3A	INSECTICIDE
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**CYPERMETHRIN 2.5 EC TERMITICIDE/INSECTICIDE**

**ACTIVE INGREDIENT:**

*Cypermethrin** .....	30.5%
OTHER INGREDIENTS*** .....	69.4%
TOTAL .....	100.0%



\* (+)α-cyano-(3-phenoxyphenyl)methyl (+) *cis/trans*-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane carboxylate

\*\*Cis/trans ratio: 47/53±10%

\*\*\*Contains xylene range aromatic solvents. Contains 2.5 pounds cypermethrin per gallon

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**FIRST AID**

<b>IF SWALLOWED:</b>
<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor 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 a 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 IN EYES:</b>
<ul style="list-style-type: none"> <li>• Hold eye open and rise 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 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 mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Note to Physician:</b> Contains petroleum distillates – vomiting may cause aspiration pneumonia.

**HOTLINE NUMBERS**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Rocky Mountain Poison Control Center at 1-866-673-6671 for emergency medical treatment information. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

United Phosphorous, Inc.  
 630 Freedom Business Center  
 King of Prussia, PA 19406  
 1-800-438-6071

EPA Reg. No. 70506-21  
 EPA Est. No.  
 Net Contents:

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

May be fatal if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation.

Open and pour this product in a well ventilated area.

**Personal Protection Equipment (PPE)**

Wear long sleeved shirt, long pants, socks, shoes, chemical resistant gloves (barrier laminate, butyl rubber, nitrile rubber, viton, selection category F).

**Mixers, loaders, applicators, and other handlers must wear the following:**

Long sleeved shirt and long pants

Shoes and socks and

Chemical resistant gloves for mixers, loaders, and applicators using handheld equipment.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS****Users should:**

- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

[For Termiticide Uses] 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 product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to or near water. Drift and runoff may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See Directions for Use for additional requirements.

**PHYSICAL/CHEMICAL HAZARDS**

Combustible. Do not use near heat or open flame. Do not use or store near heat or open flame. Not compatible with strong oxidizers, strong acids.

**DIRECTIONS FOR USE**

Restricted use pesticide.

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

Do not apply this product in a way that will contact any person, pet, either directly or through drift. Keep people and pets out of the area during application. Exit area immediately and remain outside the treated area until sprays have dried.

**Termite Control**

Outdoor – 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 area until the clean up is completed.

Use anti-backflow equipment or procedures to prevent siphonage of pesticide back into water supplies.

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.

Do not treat soil that is water-saturated or frozen.

Do not treat when raining.

Do not allow treatment to runoff from the target area.

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; marshes or natural ponds; estuaries; and commercial fish farm ponds).

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

Indoor

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 area until the cleanup is completed.

Use anti-backflow equipment or procedures to prevent siphonage of pesticide back into water supplies.

Products labeled for use for subterranean termite control: Do not treat soil beneath structures that contain wells or cisterns. Whenever possible, make termite control applications near the structure foundation using soil injections.

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**APPLICATIONS FOR THE CONTROL OF SUBTERRANEAN TERMITES****General Information on the Use of This Product**

The use of this product prevents and controls termite infestations in and around structures and constructions.

The dilute insecticidal emulsion must be adequately dispersed in the soil to establish a barrier between the wood and the termites in the soil. As a good practice: 1) remove all non-essential wood and cellulose containing materials from around foundation walls, crawl spaces and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Treat soil around untreated structural wood in contact with soil as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be

correctly employed to prevent or control infestations by subterranean termites such as: *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Consider the following when making a choice of appropriate procedures such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities,

For advice concerning current control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.

### **SUBTERRANEAN TERMITE CONTROL**

**Important:** Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur. Do not treat while precipitation is occurring. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

**Note:** Crawlspace are to be considered inside of the structure.

**Critical Areas:** Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

#### **Structures with Wells/Cisterns Inside Foundations**

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 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet 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 "Control of Wood Infesting Insects" section of this label.

#### **Structures with Adjacent Wells/Cisterns and/or Other Water Bodies**

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 feet 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. Take into account factors such as depth to the drain system and soil type and degree of compaction 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.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

**Application Rate:** Use a 0.3% to 0.6% emulsion for subterranean termite control. For other pests on the label use specific listed rates.

**Mixing Directions:** Mix the termiticide use dilution in the following manner: Fill tank 1/4 to 1/3 full. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add appropriate amount of CYPERMETHRIN EC termiticide/insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

CYPERMETHRIN EC may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the emulsion.

To prepare a 0.3% emulsion, ready to use, dilute 1 gallon of CYPERMETHRIN EC with 99 gallons of water.

**Mixing:**

For the desired application rate, use the chart below to determine the amount of CYPERMETHRIN EC for a given volume of finished emulsion:

Amount of CYPERMETHRIN EC (Gallons except where noted)			
Emulsion Concentration	Amount of CYPERMETHRIN EC	Amount of Water	Desired Gallons of Finished Emulsion
0.3%	1.25 oz.	126.75 oz.	1
	6.25 oz.	4.95	5
	12.5 oz.	9.9	10
	31.4 oz.	24.75	25
	2 qt.	49.5	50
	3 qt.	74.25	75
	1	99	100
	1.5	148.5	150
	2	199	200
0.6%	2.5 oz.	125.5 oz.	1
	12.5 oz.	4.9	5
	25 oz.	9.8	10
	2 qt.	24.5	25
	1	49	50
	1.5	73.5	75
	2	98	100
	3	147	150
4	196	200	

**Common units of measure:**

80918

1 pint = 16 fluid ounces (oz.)

1 gallon = 4 quarts = 8 pints = 128 fluid ounces (oz.)

**Application Volume:** To provide maximum control and protection against termite infestation, apply the specified volume of the finished water emulsion and active ingredient as set forth in the directions for use 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.

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.

**After Treatment:** All holes in commonly occupied areas into which Cypermethrin EC has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

### **PRE-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT**

**Pre-Construction Treatment:** Pre-construction treatments are defined to include treatments made during all phases of construction up to when the concrete slab is poured or the wooden floor is installed.

The treatment site must be covered prior to a rain event in order to prevent runoff of the pesticide into non-target areas.

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 should be 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 poured. Whenever possible, make termite control applications near the structure foundation using soil injection.

Do not treat soil that is water-saturated or frozen.

Do not treat when raining.

Do not allow treatment to run off from the target area.

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; marshes or natural ponds; estuaries; and commercial fish farm ponds).

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

**Pre-Construction Treatment: 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.**

When treating foundations deeper than 4 feet, 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 feet 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 feet. 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.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.3-0.6% emulsion of CYPERMETHRIN EC. To meet termite proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards.

**Horizontal Barriers:** Create a horizontal barrier wherever treated soil will be covered by concrete, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawl spaces.

To produce a horizontal insecticidal barrier, apply the emulsion at the rate of 1 gallon per 10 square feet to fill soil. If fill is washed gravel or other coarse material, apply at 1.5 gallons per 10 square feet so that the emulsion will reach the soil beneath the fill. Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a water-proof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.

**Vertical Barriers:** Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.

To produce a vertical barrier in soil, apply the emulsion at a rate of 4 gallons per 10 linear feet per foot of depth. Distribute the treatment as evenly as possible.

- a. When trenching and rodding into the trench, or trenching, it is important that emulsion reaches the bottom of the footing. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart.
- b. Take care to avoid soil wash-out around the footing.
- c. Trenches need not be wider than 6 inches. Mix emulsion with the soil as it is being replaced in the trench.

Hollow block voids may be treated at a rate of 2 gallons of emulsion per 10 square feet so that the emulsion will reach the top of the footing.

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 applications and until the termiticide is absorbed into the soil.

#### **POST-CONSTRUCTION SOIL TREATMENT**

Use a 0.3% to 0.6% emulsion for post-construction treatment. Up to 0.6% emulsion may be used in critical areas and areas which will be difficult to re-treat. Post-construction soil applications shall be made by injection, rodding and/or trenching or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Take care to avoid wash-out around the footing.

Do not apply emulsion until location of wells, radiant heat pipes and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.

**Foundations:** 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 four (4) feet 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 four feet. 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.

**Concrete Slabs:** Vertical barriers may be established by sub-slab injection within the structure and by trenching and rodding into the trench or by trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.

- a. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.
- b. For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. Apply the emulsion to the trench and soil at 4 gallons per 10 linear feet per foot of depth as the soil is replaced in the trench.
- c. For foundations deeper than 1 foot follow rates for basement.
- d. Exposed soil in bath traps may be treated with a 0.3 or 0.6% emulsion.

**Basements:** Where the footing is greater than 1 foot in depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.

**Accessible Crawl Spaces:** For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. 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.

1. Rod holes and trenches must not extend below the bottom of the footing.
2. Rod holes must be spaced so as to achieve a continuous chemical barrier but in no case more than 12 inches apart.
3. 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.

4. When treating plenums or 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.

1. To establish a horizontal barrier, apply to the soil surface, 1 gallon of emulsion per 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.
2. 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 gallon of emulsion per 10 square feet. 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 plenums and crawl spaces, turn off all air circulation systems for the structure until application has been completed and all termiticide has been absorbed by the soil.

**Masonry Voids:** 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; make them 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.

Note: When treating behind veneer, take care 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.

Not for use in voids insulated with rigid foam.

**Excavation Technique:** If treatment must be made in difficult situations, such as near walls, cisterns, along fieldstone or rubble walls, along faulty foundation walls, or around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:

- a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material.
- b. Treat the soil at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.
- c. After the treated soil has absorbed the liquid emulsion, replace the soil in the trench.

**RETREATMENT**

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.**

**SPECIFIC PEST CONTROL APPLICATIONS**

<b>Amount of CYPERMETHRIN EC (Gallons except where noted)</b>			
<b>Emulsion Concentration</b>	<b>Amount of CYPERMETHRIN EC</b>	<b>Amount of Water</b>	<b>Desired Gallons of Finished Emulsion</b>
<b>0.3%</b>	1.25 oz.	126.75 oz.	1
	6.25 oz.	4.95	5
	12.5 oz.	9.9	10
	31.4 oz.	24.75	25
	2 qt.	49.5	50
	3 qt.	74.25	75
	1	99	100
	1.5	148.5	150
	2	199	200
<b>0.6%</b>	2.5 oz.	125.5 oz.	1
	12.5 oz.	4.9	5
	25 oz.	9.8	10
	2 qt.	24.5	25
	1	49	50
	1.5	73.5	75
	2	98	100
	3	147	150
	4	196	200

**Common units of measure:**

1 pint = 16 fluid ounces (oz.)

1 gallon = 4 quarts = 8 pints = 128 fluid ounces (oz.)

**POSTS, POLES, AND OTHER CONSTRUCTIONS**

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.3% to 0.6% emulsion.

Previously installed poles and posts may be treated by sub-surface 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 insecticidal barrier around the pole. Apply to a depth of 6 inches below the bottom of the wood. For larger construction, use 4 gallons of emulsion per 10 linear feet per foot of depth.

## **SPOT TREATMENT FOR THE CONTROL OF WOOD INFESTING INSECTS**

For the control of insects such as termites, ants, and beetles in localized areas of infested wood in and around structures, apply a 0.3% 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. Plastic sheeting must be placed immediately below overhead areas that are spot treated. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. Spot applications may be made to control visible workers and reproductive forms. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.3% emulsion.

Termite carton nests in trees or building voids may be injected with 0.3 to 0.6% emulsion. 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.

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed 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, cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food. Not for use in Federally Inspected Meat and Poultry Plants.

## **BROADCAST TREATMENT OF WOOD FOR THE CONTROL OF WOOD-INFESTING INSECTS OUTSIDE OF THE STRUCTURE**

Apply a 0.3% to 0.6% emulsion with a coarse fan spray using maximum pressure of 25 psi. Apply just to the point of runoff.

**Firewood Protection:** Prior to stacking firewood, soil beneath the wood may be treated with 0.3% emulsion at 1 gallon per 10 square feet to prevent infestation by ants, spiders, cockroaches, silverfish, firebrats, millipedes, centipedes, earwigs, sowbugs, pillbugs.

Note: Firewood is not to be treated.

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## **GENERAL INSECT CONTROL**

For residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses, and the nonfood/feed areas of stores, warehouses, railcars, trucks, trailers, aircraft (do not use in aircraft cabins), schools, nursing homes, hospitals, restaurants, hotels, and food manufacturing, processing and servicing establishments.

Application in and on boats: Do not apply to boat surfaces which contact water. Broadcast applications to exterior surfaces of boats are prohibited. Spot treatments may be made to exterior surfaces that do not contact water. Use inside boats, ships, and other vessels is permitted. Do not allow product to drain or wash off into water bodies or other aquatic habitat.

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CYPERMETHRIN EC is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add CYPERMETHRIN EC. Close and shake before use in order to insure proper mixing. Mix only the amount of solution needed for the application; repeat treatments if necessary.

Pests		Concentration of Active Ingredient	Dilution Rate
Ants Biting Flies <sup>1,3</sup> Boxelder Bugs Centipedes Chiggers <sup>3</sup> Chinchbugs Cockroaches (Maintenance) Crickets Earwigs	Elm Leaf Beetles <sup>1</sup> Firebrats Fleas <sup>3</sup> Flies <sup>3</sup> Millipedes Mosquitoes <sup>1,3</sup> Pillbugs Silverfish Sowbugs	0.1%	0.4 fl. oz. per 1 gal. water
Bees Cockroaches (Clean-out) Spiders Ticks Wasps		0.2%	0.8 fl. oz. per 1 gal. water

<sup>1</sup> Outdoor use only.

<sup>2</sup> Not for indoor use in California.

<sup>3</sup> Not for use in California.

## INDOOR USE

### Restrictions for Indoor Uses

Do not use water-based sprays of CYPERMETHRIN EC Insecticide in conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

During any indoor surface application, do not allow dripping or runoff to occur. During any application to ceilings of a structure, cover surface below with plastic shielding or similar material.

Do not apply this product in any room being used as a living, eating, or recovery area by patients, the elderly, or the infirm when they are in the room.

Do not apply to classrooms when in use.

Do not apply to aircraft cabins.

Do not apply to areas of institutions (including libraries, sport facilities, etc.) when occupants are present in the immediate treatment area.

Do not use as a space spray.

Use only in well-ventilated areas.

Do not use concentrate or emulsion in fogging equipment.

Do not use in warehouses while raw agricultural commodities for food or feed, and/or raw or cured tobacco are being stored.

Do not use in greenhouses where crops for food or feed are grown.

Do not apply to pets. Remove birds and other pets before application. Cover any water inhabited by fish (such as aquariums and ornamental fish ponds) during treatment, and turn aquarium systems off.

**Crickets, Cockroaches, Firebrats, Silverfish, Spiders and Ticks:** Apply as a coarse low-pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets,

sinks, furnaces, stoves, the underside of shelves, drawers, and similar areas. Pay particular attention to cracks and crevices; also see "OUTDOOR USE".

**Ants:** Apply to any trails, around doors and windows, and similar areas where ants may be found. Refer to "BARRIER TREATMENT" directions to prevent infestation; also see "OUTDOOR USE".

**Bees and Wasps:** Apply to nests late in evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight; also see "OUTDOOR USES".

**Boxelder Bugs, Centipedes, Earwigs, Elm Leaf Beetles, Millipedes, Pillbugs, and Sowbugs:** 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 USES".

**Food-Handling Establishments:** Places other than private residences in which food is held, processed, prepared or served.

**Nonfood Areas:** Includes 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). CYPERMETHRIN EC can be used as a general spot, crack and crevice treatment in nonfood areas. Treat all areas where insect hide or through which insects may enter.

**Food/Feed Areas:** Do not use in food/feed areas of food-handling establishments which includes 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). In the home, all food-processing surfaces and utensils should be covered during treatment or thoroughly wash before reuse. Exposed food should be covered or removed. Not for use in Federally Inspected Meat and Poultry Plants.

## OUTDOOR USE

For control of ants, bees, biting flies boxelder bugs, centipedes, chiggers, cockroaches, crickets, earwigs, elm leaf beetles, firebrats, fleas, flies, millipedes, mosquitoes, pillbugs, silverfish, sowbugs, spiders, ticks and wasps. Apply by brush or as a residual spray either by hand or power sprayer. Apply to surfaces of buildings, porches, screens, window frames, eaves, patios, residential lawns only such grass areas adjacent to or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, vegetation, refuse dumps, garages and other areas where pests are found.

### General Precautions and Restrictions

All outdoor applications must be limited to spot or crack-and-crevice treatments only; except for the following permitted uses:

- Treatments to soil or vegetation around structures;
- Applications to lawns, turf, and other vegetation
- Applications to building foundations up to a maximum height of 3 feet
- Broadcast application to building foundations

All outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot treatments or crack-and-crevice applications only.

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The maximum application rate on lawns and other Turfgrass is 0.44 lbs ai (0.0101 lbs ia/1000 ft<sup>2</sup>).

Do not apply directly to sewers or drains, or to any area like a gutter, where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.. Do not apply when windy. Do not water the treated area(s) to the point of run-off or apply when raining or when rain is expected that day. Rinse application equipment over treated area only.

**Barrier Treatment:** To prevent infestation of buildings, apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Apply as a coarse spray. Thoroughly and uniformly wet the band area, using 1 gallon spray mix per 400 square feet.

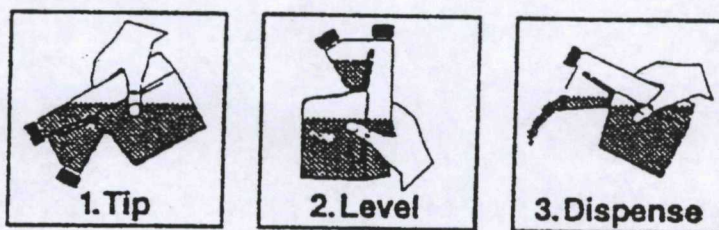
**NOTE:**

Do not apply this product to edible crops.

For best results, thoroughly wash out spryer and screen with water and detergent before using CYPERMETHRIN EC.

Do not use this product with oil (except for cluster fly control).

**[For the 1 qt Tip N Pour package]  
CONTAINER USE DIRECTIONS:**



1. Remove the measuring chamber cap and induction seal. Replace cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: remove fill chamber cap and dispense according to markings on side of bottle.

**DEALERS MUST SELL IN ORIGINAL PACKAGES ONLY.**

**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE**

Do not store below 10°F (-12°C).

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.



To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

#### **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 of the nearest EPA Regional Office for guidance.

#### **CONTAINER DISPOSAL**

**Nonrefillable container. Do not reuse or refill this container.** Clean container promptly after emptying.

*[for containers less than 5 gallons]* Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*[for containers greater than 5 gallons]* Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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 back on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers..

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**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**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 reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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