

70506-19

01-13-2010

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Rebecca A. Clemmer
Regulatory Manager
United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

JAN 13 2010

SUBJECT:	Applications for Pesticide Notification – Changes per PR Notices 2001-5 and 2007-4	
	Cypermethrin Technical Insecticide	EPA Reg. No. 70506-10
	UP-Cyde® Pro 2.0 EC Termiticide/Insecticide	EPA Reg. No. 70506-19
	UP-Cyde® 2.5 EC Ag Insecticide	EPA Reg. No. 70506-20
	Cypermethrin 2.5 EC Termiticide/Insecticide	EPA Reg. No. 70506-21
	UP-Star® Gold Granular Insecticide	EPA Reg. No. 70506-73
	UP-Star® GC Granular Insecticide	EPA Reg. No. 70506-74
	UP-Star® Nursery Granular Insecticide	EPA Reg. No. 70506-75
	UP-Star® One-G Granular Insecticide	EPA Reg. No. 70506-129
	Applications Dated August 7, 2009	

Dear Ms. Clemmer:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notices (PRNs) 2001-5 and 2007-4 for the above products. The Registration Division (RD) has conducted a review of these requests for their applicability under PRNs 2001-5 and 2007-4 and finds that the actions requested fall within the scope of these PRNs. The labels submitted with the applications are considered “acceptable”, date stamped “Notification”, and will be placed in our records.

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

If you have any questions, please call me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

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

3
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United Phosphorus, Inc.

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King of Prussia, PA 19406
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Rebecca A. Clemmer
Regulatory Manager

August 7, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

NOTIFICATION
JAN 13 2010

Re: Cypermethrin Products - Notifications

To Whom It May Concern:

United Phosphorus, Inc. is submitting revised labels to accomplish the following changes, all of which qualify as Notifications: add herbicide resistance category per PRN 2001-5; update container disposal wording per PRN 2007-4. In several cases there have also been updates to the emergency and company contact information, as well as the warranty.

Products:

- Cypermethrin Technical Insecticide, EPA Reg. No. 70506-10
- UP-Cyde Pro 2.0 EC Termiticide/Insecticide, EPA Reg. No. 70506-19
- UP-Cyde 2.5 EC Ag Insecticide, EPA Reg. No. 70506-20
- Cypermethrin 2.5 EC Termiticide/Insecticide, EPA Reg. No. 70506-21

In support, for each label enclosed please find:

- EPA form 8570-1
- Label copy marked to show changes
- Label integrity form
- A CD containing clean pdf copies of each label

Please contact me if you have any questions.

Very truly yours,

Rebecca A. Clemmer
rebecca.clemmer@uniphos.com

4
23

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
70506-10	August 7, 2009	070506-00010.20090807.Cypermethrin Technical label 2007-4.pdf
70506-19		070506-00019.20090807.UP-Cyde Pro 2.0 EC Master 2007-4.pdf
70506-20		070506-00020.20090807.UP-Cyde 2.5 EC 2007-4.pdf
70506-21		070506-00021.20090807.Cypermethrin 2.5EC 2007-4.pdf

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

R.A. Clemmer
Signature

August 7, 2009
Date

Rebecca A. Clemmer
Name (typed)

Regulatory Manager
Title

NOTIFICATION
JAN 13 2010

GROUP	3A	INSECTICIDE
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UP-CYDE® PRO 2.0 EC Termiticide/Insecticide

For Control of Subterranean Termites: For use 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.

For use by commercial applicators as an insecticide in and on buildings and structures and their immediate surroundings and on modes of transport, for preconstruction treatment of lumber and logs, and for lawn and landscape pest control.

ACTIVE INGREDIENT

Cypermethrin*	24.8%
Inert Other Ingredients	75.2%
TOTAL	100.0%

*(±)α-cyano-(3-phenoxyphenyl)methyl(±)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
 **Cis/trans ratio: 47/53 ± 10%

Contains 2 pounds active ingredient per gallon.

NOTIFICATION

KEEP OUT OF REACH OF CHILDREN

JAN 13 2010

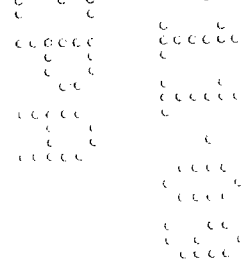
CAUTION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rise slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.

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 ~~National Pesticide Information Center~~ at 1-800-858-7378 **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.
 423 Riverview Plaza 630 Freedom Business Center
 Trenton, NJ 08611 King of Prussia, PA 19406

EPA Reg. No.: 70506-19
 EPA Est. No. _____
 Net Contents: 4.5 gallons



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. The active ingredient may cause sensations (burning, numbing, and tingling) in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTION EQUIPMENT (PPE)

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. In addition, all pesticide handlers must wear a respiratory protection device¹ when working in a non-ventilated space; all pesticide handlers must wear 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.

¹Use one of the following Mine Safety and Health Administration (MSHA)/National Institute for Occupational Safety and Health (NIOSH) respirator types with approval number prefixes or letters:

TC-21C (Dust/mist filtering respirator or a NIOSH approved respirator with an N, R, P, or HE filter)

TC-23C: (With an organic-vapor removing cartridge with prefilter approved for pesticides), or **TC-14G** (With an organic-vapor removing canister approved for pesticides), or 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).

[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. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets.

[For Lawn and Landscape Uses] This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply UP-Cyde Pro 2.0 EC Insecticide, 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 as specified on the label.

[For Treatment of Preconstruction Lumber and Logs Uses] 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.

DIRECTIONS FOR USE

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

SUBTERRANEAN TERMITE CONTROL

SPECIFIC PEST CONTROL APPLICATIONS

UNDERGROUND SERVICES

POSTS, POLES AND OTHER CONSTRUCTIONS

TREATMENT OF WOOD IN PLACE

TREATMENT OF PRECONSTRUCTION LUMBER AND LOGS

GENERAL PEST CONTROL IN AND AROUND STRUCTURES

OUTSIDE USES (UNDER SLABS, IN CRAWL SPACES AND OUTSIDE SURFACES)

INSIDE USES

LAWN AND LANDSCAPE PEST CONTROL

SUBTERRANEAN TERMITE CONTROL

GENERAL INFORMATION ON THE USE OF UP-CYDE PRO 2.0 EC FOR TERMITE CONTROL

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) all non-essential wood and cellulose containing materials should be removed from around foundation walls, crawl spaces and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated 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, as well as suspected location of the colony and severity of the infestation within the structure, should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Choice of appropriate procedures should include consideration of 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 the State regulatory agency.

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 apply 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 distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

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.

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.

9
23**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 "Treatment of Wood In Place" 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. 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.

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 0.25%-0.5% emulsion for subterranean termites.

MIXING DIRECTIONS: Mix the termiticide in the following manner: Fill tank $\frac{1}{4}$ to $\frac{1}{3}$ 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 UP-Cyde Pro 2.0 EC. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

UP-Cyde Pro 2.0 EC may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the emulsion.

For the desired application rate, use the chart below to determine the amount of UP-Cyde Pro 2.0 EC (Product) for a given volume of finished emulsion:

Concentration (% active)	TANK SIZE							
	1 Gal.		25 Gal		50 Gal		100 Gal	
	Product	Water	Product	Water	Product	Water	Product	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
0.5	2.6 oz	125.4 oz	64.0 oz	24.5 gal	1.0 gal	49.0 gal	2.0 gal	98.0 gal
1.0	5.2 oz	122.8 oz	128.0 oz	24.0 gal	2.0 gal	48.0 gal	4.0 gal	96.0 gal

For termite applications, only use these rates in conjunction with the applications volume adjustments as listed in the section below (Application Volume) or in the Foam Application section.

Common units of measure:

1 pint = 16 fluid ounces (oz.)

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

AFTER TREATMENT: All holes in commonly occupied areas into which UP-Cyde Pro 2.0 EC has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

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, such as clay-rich soils, 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. This also may apply to sensitive areas and/or applications where less volume may be desirable.

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.

Where soil conditions will not accept application of specified volume (gallons) of emulsion, the 0.5% emulsion may be applied at one-half the labeled application volume or a 1% emulsion may be applied at one-half the labeled application volume. Distribute the treatment evenly. Volume adjustments at 1% are not recommended for subslab injection.

Note: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.

Volume Adjustment Chart			
Volume allowed	Rate (% emulsion)		
	0.25%	0.5%	1.0%
Horizontal (gallons emulsion/10 ft. ²)	1.0 gallon	0.5-1.0 gallon	0.25-0.5 gallons*
Vertical (gallons emulsion/10 linear ft.)	4.0 gallons	2.0-4.0 gallons	1.0-2.0 gallons*

*Not recommended for subslab injection.

PRECONSTRUCTION SUBTERRANEAN TERMITE 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.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.25-0.5% emulsion of UP-Cyde Pro 2.0 EC. To meet F.H.A. termite-proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development (H.U.D.) Minimum Property Standards.

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.

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: A horizontal barrier may be established in areas intended for covering such as floors, porches and other critical areas. Application shall be made 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 treated soil.

Vertical Barriers: Vertical barriers may be established in areas such as around the base of foundations, plumbing, utility entrances, 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 foundations 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 in. 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: 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.

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 in. nor below the foundation. The emulsion should be mixed with the soil as it is being replaced in the trench.

POST-CONSTRUCTION SOIL TREATMENT

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

For applications made after the final grade is installed, the applicator must 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 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 4 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.

Slab-on-Ground: Apply the emulsion at the rate of 4 gallons of emulsion per 10 linear feet per foot 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 footing.

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 flow by fixtures inserted in the slab) and along cracks, expansion joints, and other critical areas.

Drill holes should be spaced about 10-24 in. 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 in. 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 in 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 immediately following exception for monolithic slabs)

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 veneer. If a concrete block is behind the veneer, both the block 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. Applications 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 in. 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 in. 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.

Hollow Masonry Units of the Foundation and/or Basement Wall (Below Grade): Treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gal/10 lin.ft. Apply the emulsion so it will reach the footing.

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 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 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.

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.

Note: Children and pets should be kept out of treated area until surface is completely dry.

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.

FOAM APPLICATIONS

UP-Cyde Pro 2.0 EC emulsion may be converted to foam and used to treat voids to control or prevent termite, ant, bee, wasp or other arthropod infestations harboring under slabs. When using a foaming product, be sure that it is compatible with UP-Cyde Pro 2.0 EC Termiticide/Insecticide.

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 insure 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.

14
23

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

Application Under Slabs or to Soil in Crawlspace: Application should be made using UP-Cyde Pro 2.0 EC 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 UP-Cyde Pro 2.0 EC 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 foundations such as stairs, patios and slab additions.

SPECIFIC PEST CONTROL APPLICATIONS

UP-Cyde Pro 2.0 EC will prevent attack by termites, ants, carpenter ants, carpenter bees, and wood infesting insects, as listed in the following sections.

For the desired application rate, use the chart below to determine the amount of UP-Cyde Pro 2.0 EC for a given volume of finished emulsion:

Concentration of Active Ingredient	Dilution Rate
0.1%	0.5 fl. oz. per 1 gal. water
0.25	1.25 fl. oz. per 1 gal water
0.3	1.5 fl. oz. per 1 gal. water
0.5%	2.5 fl. oz. per 1 gal. water
1.0	5.0 fl. oz. per 1 gal water

UNDERGROUND SERVICES such as: wires, cables, utility lines, pipes, conduits, etc. services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) of installations of services.

Soil treatment may be made using 0.25% to 0.5% UP-Cyde Pro 2.0 EC emulsion to prevent attack by termites and ants.

Apply 2-4 gallons of emulsion per 10 linear feet 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 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above labeled volume, 1-2 gallons of 0.5% UP-Cyde Pro 2.0 EC may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of emulsion into the soil.

Precautions: Do not treat electrically active underground services.

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% emulsion to prevent attacks by termites and ants.

To prepare a 0.3% emulsion, mix 1.60 fl. oz. UP-Cyde Pro 2.0 EC per 1 gallon of water.

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 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

15
23

barrier around the pole. Use 1 gallon of emulsion per foot of depth for poles and posts less than 6 inches in diameter. For large poles, use 1.5 gallons of emulsion per foot of depth. 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.

Do not contaminate wells or cisterns.

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

In addition to subsurface applications, this product may be used for treating infested wood in place. It can be applied to wood by a 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 per 1,000 sq. ft. of surface area.

IMPORTANT: Do not apply emulsion until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements. Do not apply into electrical fixtures, switches or sockets.

Remove all pets, birds, and cover aquariums before spraying indoors. Do not permit humans or pets to contact treated surfaces until the spray has dried.

In the home, all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before reuse.

During any applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar material.

Control of Wood Infesting Beetles: 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 an emulsion containing 0.25% UP-Cyde Pro 2.0 EC. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray to the point of runoff. When spraying overhead interior areas of homes, apartment buildings, etc., spray to the point of runoff, 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.

Termites Above Ground: For control of termites, subterranean aerial colonies, Formosan aerial colonies or drywood termites in localized areas of infested wood in structures, apply 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, crawl spaces, unfinished basements, or man-made voids may be made with a coarse fan spray of 0.1%-0.25% emulsion to control workers and winged reproductive forms of termites in mud shelter tubes. This type of application is not intended to be a substitute for soil treatment, for extensive infestation of drywood termites or other wood-infesting insects. Make treatments at a rate of 1 gallon of the emulsion per 1,000 square feet 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 splash back guard.

Termite carton nests in trees or building voids may be injected with 0.25%-0.5% 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.

Carpenter Ants: For control of carpenter ants in houses and other structures, apply at 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, door frames, windows and similar areas where these

16
23

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 to the point of runoff. Do not exceed 1 gallon of dilute emulsion per 1000 square feet 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.

Firewood Protection from Carpenter Ants and Other Insects: Prior to stacking firewood, soil beneath the wood may be treated with 0.25-0.5% emulsion at 1 gallon per 10 square feet to prevent infestation by carpenter ants. 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.

Carpenter Bees: 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 hours to be certain that returning adult bees are killed. Where there is no activity, the hole may be closed with wood putty.

TREATMENT OF PRECONSTRUCTION LUMBER AND LOGS*: 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% solution of UP-Cyde Pro 2.0 EC. 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 UP-Cyde Pro 2.0 EC 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 UP-Cyde Pro 2.0 EC 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 UP-Cyde Pro EC 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

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, vessels, railcars, trucks, trailers, aircraft (cargo areas only), schools, nursing homes, hospitals (non-patient areas), restaurants, hotels, and food manufacturing, processing and servicing establishments.

UP-Cyde Pro 2.0 EC is intended to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add UP-Cyde Pro 2.0 EC. Close and shake before use in order to ensure proper mixing. Mix only the amount of solution needed for the application; repeat treatments as necessary.

17
23

For the desired application rate, use the chart below to determine the amount of UP-Cyde Pro 2.0 EC for a given volume of finished emulsion:

Concentration of Active Ingredient	Dilution Rate
0.1%	0.5 fl. oz. per 1 gal. water
0.2%	1.0 fl. oz. per 1 gal. water
0.25	1.25 fl. oz. per 1 gal. water
0.3	1.5 fl. oz. per 1 gal. water
0.5%	2.5 fl. oz. per 1 gal. water
1.0	5.0 fl. oz. per 1 gal. water

UP-Cyde Pro will control the following pests; see further instructions under Indoor Use and Outdoor Use.

Pests		Concentration of Active Ingredient	Dilution Rate
Ants	Elm Leaf Beetles ³	0.1%	½ fl. oz. per 1 gal. water
Biting Flies ^{2,3}	Firebrats		
Boxelder Bugs	Fleas ²		
Centipedes ¹	Flies ²		
Chiggers ²	Millipedes		
Cockroaches	Mosquitoes ^{2,3}		
(Maintenance)	Pillbugs		
Crickets	Silverfish		
Earwigs	Sowbugs		
Bees			
Cockroaches			
(Clean-out)			
Spiders			
Ticks			
Wasps			
¹ Not for indoor use in California.			
² Outdoor use only.			
³ Not approved for use in California			

INDOOR USE

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 water 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: 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 USE".

Boxelder Bugs, Earwigs, Elm Leaf Beetle, Centipedes, 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 USE".

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).

UP-Cyde Pro 2.0 EC Insecticide may be used as a general spot, crack and crevice treatment in nonfood areas. All areas where insects hide or through which insects may enter should be treated.

DO NOT USE IN FOOD/FEED AREAS of food-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, all food-processing surfaces and utensils should be covered during treatment or thoroughly washed before reuse. Exposed food should be covered or removed. Not for use in USDA meat and poultry plants.

OUTDOOR USES

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 then injecting 1 gallon of a 0.25% to 0.5% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

In Crawl Spaces: Broadcast UP-Cyde Pro 2.0 EC at 0.25% to 0.5% 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 to point of runoff. Keep children and pets off surface until dry.

Outside Surfaces and Around Buildings: Apply UP-Cyde Pro 2.0 EC 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, 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 buildings, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Base need for retreatment upon monitoring for pest presence.

Keep children and pets off treated areas until completely dry.

Barrier Treatment: Apply 0.1% to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet. Use treatment volume of 2 to 10 gallons per 1,000 sq. ft. Higher volumes of water may be needed if mulch or leaf litter is present or dense foliage. House siding may be treated if boxelder bugs, elm leaf beetles, earwigs, silverfish or other similar pests are present.

Caution on application to vinyl siding: Each year prior to an application to vinyl siding, treat a small area on all sides of the structure where weathering is most severe, and allow to dry. 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.

LAWN AND LANDSCAPE PEST CONTROL

UP-Cyde Pro 2.0 EC may be used on plants intended for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamentals, gardens or parks, or lawns and grounds. Do not use in commercial greenhouses, nurseries, sod farms or golf courses. Not for use on plants or turf being grown for sale or other commercial use, or for commercial seed production or for research purposes.

Pest	Specific Instructions
Chinchbugs ¹ Mole Crickets	<p>For residential lawns, apply UP-Cyde Pro 2.0 EC at the rate of 0.34 to 0.67 fluid ounces per 1,000 square feet in a volume of water sufficient for uniform coverage such as 3 to 20 gallons. Use the lower rate to knock down pests and the higher rate where faster knockdown or greater residual is desired.</p> <p>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 Lawn Application Dilution Table below.</p>
Ants Ant Mounds Fireants	<p>DRENCH METHOD (Ant Mounds, Fire Ants): Apply 1 to 2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4-foot diameter circle around the mound. Use the higher volume for mounds larger than 12 inches. 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 ¹ Elm Leaf Beetles ¹ Gypsy Moths (adult & caterpillars) ¹	<p>Boxelder Bugs, Elm Leaf Beetles, Gypsy Moth Caterpillars: 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.</p>
Fleas Ticks	<p>Fleas and Ticks: Mix 1.25 to 2.5 ounces of UP-Cyde Pro 2.0 EC in 16 to 100 gallons of water and apply to 4,000 square feet of lawn. Use the lower rate to knock down existing fleas and the higher rate where faster knockdown or greater residual is desired.</p>
<p>¹Not approved for use in California.</p>	

LAWN APPLICATION DILUTION TABLE: UP-Cyde Pro 2.0 EC Rate (oz.) for 100 gal. according to volume of application.

Example: For a Chinch bug application at the rate of 0.67 oz. per 1000 sq. ft., using 5 gal. of solution per 1000 sq. ft. of lawn, use 13 oz. of UP-Cyde Pro 2.0 EC in a 100 gal tank (1 fl. oz equals 30 ml).

Volume per 1000 sq. ft.	Amount of UP-Cyde Pro 2.0 EC		
	0.34 oz./1000 sq. ft	0.51 oz./1000 sq. ft	0.67 oz./1000 sq. ft
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.

GENERAL RESTRICTIONS AND PRECAUTIONS

Do not use water-based sprays of UP-Cyde Pro 2.0 EC in conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

Not for use in warehouses where raw or cured tobacco is stored and raw agricultural commodities for food or feed are stored or in commercial greenhouses.

DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.

Keep people and pets off surfaces until dry.

Protect aquariums from spray mist.

For best results, thoroughly wash out sprayer and screen with water and detergent before using UP-Cyde Pro 2.0 EC.

Do not use this product with oil.

Do not treat pets with this product.

DO NOT USE IN FOOD/FEED AREAS of food-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, all food-processing surfaces and utensils should be covered during treatment or thoroughly washed before reuse. Exposed food should be covered or removed.

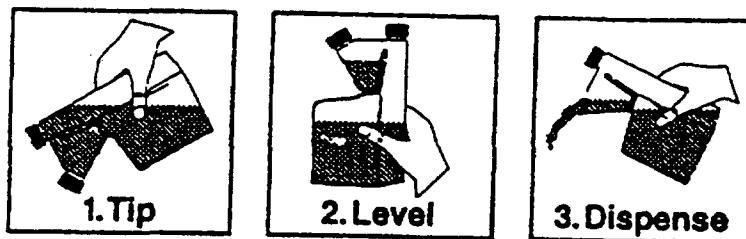
Not for use in Federally Inspected meat and poultry plants.

Do not allow spray to contact food, food stuffs, food contact surfaces, food utensils or water supplies.

Do not apply product in rooms occupied by patients, the elderly or infirm.

Do not apply to classrooms when in use.

[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 chamfer cap and dispense according to markings on side of bottle.

STORAGE AND DISPOSAL

Pesticide Storage: Protect from freezing. Keep out of reach of children. 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 spill.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container and 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 ¼ 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 ¼ 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. Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

Returnable/Refillable Sealed Containers: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

IMPORTANT INFORMATION

22
23**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 should be followed carefully. It is impossible to eliminate all risks inherently 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 Phosphorous, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorous Inc. and Seller harmless for any claims relating to such factors.~~

~~United Phosphorous, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorous, Inc., and Buyer and User assume the risk of any such use. UNITED PHOSPHOROUS, INC. MAKES NEITHER WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.~~

~~In no event shall United Phosphorous, Inc. or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHOROUS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF UNITED PHOSPHOROUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FAIR MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.~~

United Phosphorous, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorous, Inc.

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.

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23
23

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Rev. 8/7/09