	EPA REGISTRATION NO	DATE OF ISSUANCE
US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS	51717	<u> </u>
REGISTRATION DIVIS' DN (TS-767) WASHINGTON, DC 20460	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRO	
NOTICE OF PESTICID : TI REGISTRATION	V - 1 - +	n norritical.
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
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roduct always refer to the above U.S. EPA registration num	iber.	
on the basis of information furnished by the registrant, the interpretation of the second production of the second produc	above named pesticide is h	ereby Registered/Reregistered under
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a copy of the labeling accepted in connection with this Reg	gistration/Reregistration is	returned herewith.
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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the λ -79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with PIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (H7505C)

Enclosures

ACCEPTED with COMMENTS in EPA Lotter Dated:

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

Cypermethrin TC Termiticide

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Only for Sale to, Use and Storage by Professional Pest Control Operators.

Keep Out of Reach of Children

Warning

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See Below for Additional Precautionary Statements and Statement of Practical Treatment.

*Cypermethrin TC contains 2 pounds active ingredient per gallon.

**Cis/trans ratio: Max. 55% (<u>+</u>) cis and min. 45% (<u>+</u>) trans EPA Est. No. EPA Reg. No.59714-L U.S. PATENT No. 4,024,163 NET CONTENTS: 1 Gallon

STATEMENT OF PRACTICAL TREATMENT:

IF INHALED: Remove to fresh air. If treathing difficulty or discomfort occurs, obtain medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting because of aspiration hazard.

IF IN ETES: Flush eyes with plenty of water. Obtain medical attention if irritation occurs and persists.

IF ON SKIN: Wash with soap and water. If irritation occurs and persists, obtain medical attention.

NOTE TO PHYSICIAN: Cypermethrin TC is a pyrethroid insecticide containing the active ingredient cypermethrin. Oral toxicity is low, but because cypermethrin is lipophilic, do not administer milk, cream or other substances containing v getable or animal fats, which enhance absorption. Treatment is otherwise symptomatic and supportive. Vomiting should be supervised by a physical or a medical professional because of the possible pulmonary damages by aspiration of the solvent.

For 24-hour emergency assistance, call Pesticide Hotline(800)858-7378.

PPECAUTIONARY STATEMENTS

Hazards to Humans and Domestic animals

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Warning Harmful if inhaled, svallowed 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 produce sensations (burning, numbing and tingling) in some individuals. Wear impermeable gloves made of neoprene when spraying. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS: This product is extremely toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to any body of water. Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not store below 40 F. 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 spills.

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. 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:

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 incineration, or, if allowed by state and local authorities, by hurning. If burned, stay out of smoke. **Glass Containers:** Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

GENERAL INFORMATION ON THE USE OF THIS PRODUCT

This product controls and establishes a preventive treatment zone against subterranean termites. It also controls subterranean and drywood termites in localized areas of structures and constructions.

Chemicals for soil treatment are used to establish a barrier against termites. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. As a good practice, all non-essential wood and cellulose containing materials, including scrap wood and form boards, should be removed from around foundation walls, crawl spaces,



and porches. Soil around untreated structural wood in contact with soil should be treated as described below. Effective termite control also includes elimination of termite access to moisture by recommending repair of faulty construction grade and/ or plumbing.

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It is necessary for the effective use of this product that the service technician be familiar with current control practices including soil trenching, roiding, sub-slab injection, low pressure spray applications to soil and crack and crevice (void) injection, brushing, and spraying applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of <u>Reticulitermes</u>, <u>Zootermopsis</u>, <u>Heterotermes</u> and <u>Coptotermes</u>. The biology and behavior of the species involved are important factors to be known as well as suspected location of the colony and severity of the infestation within the structure to be protected.

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, so'' type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

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

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

IMPORTANT: Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backilow equipment or procedures to prevent siphonage of pesticide into water supplies. Do not treat soil beneath structures that contain cisterns or wells. Do not treat soil that is water saturated or frozen. Consult state and local specifications for recommended distances of wells from treated areas, and refer to Federal Housing Administration Specifications (H.U.D.) for advice on well placement during new construction.

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SUBTERRANEAN TERMITE CONTROL DIRECTIONS FOR USE

MIXING: For soil applications, apply a 0.25% emulsion of Cypermethrin TC. Up to 0.5% emulsion may be used in critical areas or where re-treatment will be difficult. To prepare a 0.25% emulsion, mix 1 gallon of Cypermethrin TC in 99 gallons of water. To prepare a 0.5% emulsion, mix 2 gallons of Cypermethrin TC in 98 gallons of water. For termite control operations requiring smaller volumes, use 1.2 fluid ounces of Cypermethrin TC per gallon of water to achieve 0.25% concentration. Where soil conditions will not accept application of specified volume (gallons) of 0.25% emulsion, the 0.5% emulsion may be applied at one half the application rate or 2 gallons per 10 linear feet.

PRE-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal chemical barriers using 0.25%-0.5% emulsion of Cypermethrin TC. To meet termite proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards (refer to U.S.D.A. Home and Garden Bulletin No. 64).

HORIZONTAL BARRIERS

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Before footings are poured, horizontal barriers may be established in footing trenches. After site grading is completed and prior to the pouring of slab floors, slab supported/ constructed porches, patios, carports, or entrance platforms, make the following treatments:

To produce a horizontal chemical be rier, apply the emulsion at the rate of 1 gallon per 10 square feet to fill dirt. If fill is washed gravel or other coarse material, apply at 1.5 gallons per 10 square feet. It is important that the emulsion reaches the soil substrate and that even coverage is obtained. Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse sprav nozzle. If concrete slabs cannot be poured over soil the same day (24 hours) it has been treated, a water-proof cover such as polyethylene sheeting should be placed over the soil. This is not necessary if foundation walls have been installed around the treated soil.

VERTICAL BARRIERS



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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.

To produce a vertical barrier in soil, apply the emulsion at the rate of 4 gallons per 10 linear feet. Where footings are greater than 1

foot of depth from grade to the bottom of the foundation, application may be made by trenching and or rodding at the rate of 4 gallons of emulsion per 10

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linear feet per foot of depth. If soil will not accept the volumes specified, a 0.5% emulsion may be applied at one half the application rate, 2 gallons per 10 linear feet. Distribute the treatment evenly.

a. Rodding and/or trenching applications should not be made below the top of the footing except when the footing is exposed at or above grade. Special care should be taken to avoid soil wash-out around the footing.

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- b. When rodding, it is important that emulsion reaches the footing. Rod holes should be about 12 to 36 inches apart to provide a continuous chemical barrier.
- c. Trench need not be wider than 6 inches. Emulsion should be mixed with the soil as it is being replaced in the trench.

HOLLOW MASONRY UNITS OF THE FOUNDATION WALLS

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In pre-construction situations in which horizontal barrier application is not made to soil prior to pouring the footing, treatment may be made through masonry voids to establish a continuous chemical barrier at the top of the footing. Apply at the rate of 2 gallons of emulsion per 10 linea. feet.

CRAVL SPACES

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For crawl spaces, vertical chemical barriers may be established using the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Application may be made by rodding and/or trenching. If the footing is exposed at or above grade, application should be made with special care to avoid soil wash-out around the footing. Treatment should include both sides of foundation and around all piers and pipes extending from the soil. If soil will not accept the volumes specified, a 0.5% emulsion may be applied at one half the application rate, 2 gallons per 10 linear feet.

- a. Rod holes should be about 12 to 36 inches apart to provide a continuous chemical barrier.
- b. Trench need not be wider than 6 inches and should not extend below the footing. The emulsion should be mixed with the soil as it is being replaced in the trench.

MONOLITHIC SLABS

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In the case of a single pour monolithic slab, which does not have a separate foundation or footing, an overall horizontal barrier should be created before the concrete grade beam and floor are poured, using a rate of 1 gallon of emulsion per 10 square feet. If fill is washed gravel or other coarse material, apply at the rate of 1.5 gallons per 10 square feet. Critical areas beneath the slab such as utility pipe entries may be treated at the rate of 4 gallons per 10 linear feet around the pipes.Exterior ver ical barriers should be created after the concrete has been poured and final exterior grade established. Apply the emulsion at the rate of 4 rallo: s per 10 linear feet per foot of depth to the bottom of the concrete.

POST-CONSTRUCTION SOIL TREATMENT

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Use a 0.25% emulsion for post-construction treatment. Up to 0.5% 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. Rod holes or trenches should not extend below the footing because of the possibility of soil wash-out by the emulsion.

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

CONCRETE SLABS

Vertical barriers may be established by sub-slab injection inside and rodding and/or trenching outside at the rate of 4 gallons of emulsion per 10 linear feet. If soil will not accept the volumes specified, a 0.5% emulsion may be applied at one half the application rate, 2 gallons per 10 linear feet. Special care must be taken to distribute the treatment evenly. Injectors should not extend below the tops of the footings.

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 footing-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. Where necessary, drill through the foundation walls from the outside and inject the emulsion beneath the slab either along the inside of the foundation and along all the cracks, expansion joints, and other critical areas.
- 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 foundation. The emulsion should be applied to the trench and soil at 4 gallons per 10 linear feet as the soil is replaced in the trench.
- c. For foundations deeper than 1 foot follow rates for basements.

HOLLOW MASONRY UNITS OF THE FOUNDATION WALLS

Treatment may be made through masonry voids to establish a continuous chemical barrier at the top of the footing. Apply at the voite of 2 gallons of emulsion per 10 linear feet. Where this treatment is necessary, access holes must be drilled below the sill plate and as close as possible to the footing as is practical. Rod holes should be about 12 to 36 inches apart to provide a continuous chemical barrier.

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BASEMENTS

For basements and slab foundations, perimeter vertical barriers may be applied at a rate of 4 gallons of emulsion per 10 linear feet.

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Where footings are greater than 1 foot of depth from grade to the bottom of the foundation, application can be made by trenching and/or rodding at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. The outside of the foundation may be treated by trenching and/or rodding. Sub-slab injection may be necessary along the inside of foundation walls, along cracks, along partitions, around sever pipes, conduits, and piers, and along both sides of interior footing-supported walls.

CRAVL SPACES

In crawl spaces vertical barriers may be applied at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to top of footing. Application may be made by rodding and/or trenching. If adequate ventilation is not available in the crawl space, see point 'c' below; wear a respirator approved by the Mine Safety and Health Administration during treatment. Rod holes or trenches should not extend below the footing. Treat both sides of foundation and around all piers and pipes.

- a. Rod holes should be about 12 to 36 inches apart to provide a continuous chemical barrier.
- b. Trenches need not be wider than 6 inches and not below the footing. The emulsion should be mixed with the soil as it is replaced in the trench.
- c. It is recommended that inadequately ventilated crawl spaces be brought into compliance with FHA Minimum Property Standards specifying 1 square foot of ventilator opening per 150 square feet of crawl space area.

When treating plenums, turn off the air circulation system of the structure and exhaust the crawl space air to the outside until application-generated dust or spray mist has settled.

BATH TRAPS

Where there is exposed soil beneath and around plumbing/ waste pipe entrances through a concrete slab, this soil may be treated with 0.22%; 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 flooding with 0.25% emulsion of this product.

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POSTS, POLES, AND OTHER CONSTRUCTIONS

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Application may be made to create a chemical barrier in the soil around wooden constructions of value such as signs and landscape ornamentation.

Use 1 gallon of emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

For treatments made during installation, the emulsion may be applied to the soil as it is replaced around the pole or post. P: viously installed poles and posts may be treated by sub-surface injection or treated by gravityflow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous chemical barrier. Apply to a depth of six inches below the bottom of the vood.

EXCAVATION TECHNIQUE

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If treatment must be made in difficult situations such as near wells, cisterns, along fieldstone or rubble walls, along faulty foundations walls, and 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. Min 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.

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

AFTER TREATMENT: Securely plug all holes drilled in construction elements.

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PEST CONTROL ABOVE GROUND

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In addition to sub-surface applications, this product may be used for treating infested wood in place. It can be applied to wood by crack and crevice tool, coarse fan spray or injection. In occupied indoor areas, treat wood trim and exposed beams by brush, coarse spray, or injection directed only onto the wood to be treated. Crawl spaces are considered to be indoor space.

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

Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving area are areas where prepared foods are severed such as dining rooms but excluding areas where foods maybe prepared or held.

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

Remove pets, Firds, and cover fish aquaria before spraying. Do not prmit humans or pers to contact treated surfaces until the spray has dried.

Nonfood areas are areas such as garbage rooms, lavatories, floor drains(to severs), entries and vestibules, offices, locker rooms, machine rcoms, boiler rooms, garages, mop closets and storage (after canning or bottling).

Not for use in U.S. Department of Agricultural (USDA) Meat and Poultry Plants.

Wear protective clothing, goggles, rubber gloves, and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

To prepare a 0.1% emulsion add 0.5 fluid ounce of Cypermethrin TC to 1 gallon of water. To prepare 50 gallons of 0.1% emulsion add 0.25 gallon (1 quart) of Cypermethrin TC to 49.75 gallons of water. To prepare 100 gallons of 0.1% emulsion add 0.5 gallon (2 quarts) of Cypermethrin TC to 99.5 gallons of water.

To prepare a 0.2% emulsion add 1 fluid ounce of Cypermethrin TC to 1 gallon of water. To prepare 50 gallons of 0.2% emulsion add 0.5 gallon (2 quarts) of Cypermethrin TC to 49.5 gallons of water. To prepare 100 gallons of 0.2% emulsion add 1 gallon of Cypermethrin TC to 99 gallons of water.

SPOT TREATMENT FOR TEPMITE CONTROL ABOVE GROUND

For control of termites, subterranean aerial colonies, Formosan aerial colonie., or drywood termites in localized areas of infested wood in structures, apply a 0.1% 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

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areas by drilling, and then injecting 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% 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 or mechanical alteration to control subterranean termites, or fumigation for extensive infestation of drywood termites or other wood-infesting insects.

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

Termite carton nests in trees or building voids may be injected with 0.2% 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.

CONTROL OF BEES AND WASPS INDOORS

To control bees, wasps, hornets, and yellow jackets apply a 0.2% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

OUTDOOR USE

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For control of ants, centipedes, millipedes, clover mites, cockroaches, crickets, firebrats, silverfish, sowbugs, pillbugs, spiders, fleas, and flies. Apply a 0.1% emulsion as a residual spray to surfaces of buildings, porches, screens, window frames, eaves, patios, lawns, refuse dumps, garages with either hand or power sprayer and in other areas where these pests are found.

To control bees, wasps, hornets, and yellow jackets apply a 0.2% emulsion. Application should be made in late evening when insects are at rest. Aim spray at nest openings in ground, bushes, and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

BARRIER TREATMENTS

To help prevent infestation of buildings, apply a 0.1% solution 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 when pests are active and may find entrance. Apply as a coarse spray to thoroughly and uniformly wet the band areas, using 1 gallon of spray mix per 400 square feet. Do not apply this product to edible crops.

FIREWOOD PROTECTION

Prior to laying in firewood, soil beneath the cord(s) may be treated with 0.2% emulsion at 1 gallon per 10 square feet to prevent infestation by ants, spiders, cockroaches, silverfish, firebrats, millipedes, centipedes, earwigs, sovbugs, pillbugs.

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RETREATMENT

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Retreatment for subterranean termites may be made at any time there is evidence of reinfestation or disruption of the barrier due to construction, excavation, landscaping, and/or breakdown of the chemical barrier in the soil. etc. Retreatment may be made to vulnerable or reinfested areas in accordance with application techniques described on this label.

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To help ensure an effective preventative barrier for the life of the structure, retreatment or booster treatments may be made as either a spot or a complete treatment. The timing of these retreatments will vary, depending on factors such as soil types, soil conditions, and other factors which may reduce the effectiveness of the barrier.

Annual retreatments are prohibited unless relifestation or barrier disruption has occurred.

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