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PERMETHRIN PRO TERMITE-TURF-ORNAMENTAL

TERMITICIDE/INSECTICIDE

For use by Individuals/firms licensed or registered by the State to apply pesticide 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 as a termiticide and as an insecticide for use to control insect pests on lawns, ornamental trees and shrubs and around buildings for perimeter insect control including turf and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields, applications to agricultural structures and livestock.

Active Ingredient:

Permethrin**.....36.8%

Inert Ingredients:***.....63.2%

Total.....100.0%

**cis/trans ratio: Max. 55%(+) cis and min. 45% (+) trans

***Contains petroleum distillates

Contains 3.2 pounds permethrin per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION/Precaucion

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

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Do not give **any** liquid to the person. 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 INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control or doctor for treatment advice.

IF IN EYES: hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Call a poison control center for treatment advice.

ACCEPTED

AUG 20 2003

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 51036-287

NOTE TO PHYSICIAN: This product contains aromatic hydrocarbons which can produce a severe pneumonitis if aspirated, consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

EPA Reg. No. 51036-287
AD012203

EPA Est. No. 51036-GA-1

Manufactured By:
MICRO FLO COMPANY LLC
P.O. BOX 772099
MEMPHIS, TN 38117

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PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. 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, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device¹ when working in a non-ventilated space. All pesticide handlers must wear protective eyewear² 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) air purifying respirator types with approval number prefixes such as: dust/mist filtering respirator TC-21C or a NIOSH approved respirator with any R, P or HE filter; or respirator with an organic-vapor removing cartridge and a prefilter approved for pesticides with MSHA/NIOSH approval number prefix TC-14G; or supplied air respirator with MSHA/NIOSH approval number prefix TC-19G or self-contained breathing apparatus (SCBA) with MSHA/NIOSH approval number TC-13F.

²Protective eyewear is goggles, a face shield, or safety glasses with front, brow, and temple protection.

ENVIRONMENTAL HAZARDS

This product is highly toxic to bees exposed to direct treatment or residues on crop or weeds. Do not apply this product 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.

This product is extremely toxic to fish and aquatic invertebrates. 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. Do not apply when weather conditions favor drift from treated areas.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Shake Well Before Using.

CONTAINER USE DIRECTIONS FOR THE 1 QUART CONTAINER

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

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

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

1. Coveralls over long-sleeved shirt and long pants.
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber.
3. Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses. Do not allow people or pets on treated surfaces until the spray has dried. Do not touch treated surface until dry.

STORAGE AND DISPOSAL

PESTICIDE STORAGE

Store at temperatures above 40 degrees F (5 degrees C).

If separation occurs, and less than entire contents of container are to be used, remix by agitation. For the 1.25 gallon container, invert and shake several times until contents are

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homogeneous.

If crystals form, warm to room temperature 70 degrees F (21 degrees C) by room heating only for 24-48 hours and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming container.

Do not use or store near heat, open flame or hot surfaces.

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

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

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

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

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 burning. If burned, stay out of smoke.

Metal containers: Triple rinse (or equivalent). The offer for recycling or reconditioning, 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.

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

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an

irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

PERMETHRIN PRO Termite-Turf-Ornamental should be applied continuously for the duration of the water application. PERMETHRIN PRO Termite-Turf-Ornamental should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable carrier is used.

GENERAL INFORMATION ON THE USE OF THIS PRODUCT

For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

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.

NOTE: When making an application to or around vinyl siding, treat a small test area in a non-obtrusive area and allow to dry. Some types of vinyl siding, particularly if aged or weathered or during periods of high temperature or high humidity may show some staining after application of an emulsifiable concentrate product.

Staining may also occur on certain surfaces such as stucco, brick, cinder block, and wood. Spray deposits on painted or stained surfaces or finishes should be immediately removed by washing with soap and water to prevent discoloration. Avoid applications to surface where visible spray residues are objectionable.

SUBTERRANEAN 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 should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

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.

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. Permethrin, the active ingredient in PERMETHRIN PRO Termite-Turf-Ornamental is extremely toxic to fish and aquatic invertebrates. Care should be used when making applications near bodies of water. Locate sources of water discharge from structures, such as french drains and sump systems. Turn off discharge pumps until after application is complete. Observe for any change in color or odor of effluent discharge. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

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

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

STRUCTURES WITH WELLS/CISTERNS INSIDE FOUNDATIONS

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

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:

(a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.

(b) Treat the soil at the rate of 4 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See "Mixing Directions" section of the label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.

(c) After the treated soil has absorbed the diluted

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emulsion, replace the soil into the trench.

2. Treat infested and/or damaged wood in place using an injection technique such as described in the "Control of Wood Infesting Insects" section of this label.

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

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

1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
2. Prior to treatment applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. 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 0.5% emulsion for subterranean termites. For other pests on the label use specific listed rates.

Mixing Directions:

Mix the termiticide use dilution in the following manner:

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

PERMETHRIN PRO Termite-Turf-Ornamental may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the emulsion.

To prepare a 0.5% water emulsion, ready to use, dilute 1.25 gallons of PERMETHRIN PRO Termite-Turf-Ornamental with 94.75 gallons of water.

Mixing: For the desired application rate, use the chart below to determine the amount of PERMETHRIN PRO Termite-Turf-Ornamental for a given volume of finished emulsion:

AMOUNT OF PERMETHRIN PRO Termite-Turf-Ornamental

EMULSION CONCENTRATION	AMOUNT OF PERMETHRIN PRO	AMOUNT OF WATER	DESIRED GALLONS OF FINISHED EMULSION
0.5%	1 2/3 fl. oz.	7.9 pts.	1
	6 2/3 fl. oz.	31.6 pts.	4
	8 1/3 fl. oz.	39.5 pts.	5
	16 2/3 fl. oz.	9.9 gals.	10
	0.25 gals.	18.75 gals.	19
	0.50 gals.	37.5 gals.	38
	0.75 gals.	57.25 gals.	58
	1.25 gals.	94.75 gals.	96
	2.50 gals.	189.5 gals.	192
1.0%*	1 2/3 fl. oz.	62 1/3 fl. oz.	0.5
	3 1/3 fl. oz.	7.8 pts.	1
	6 2/3 fl. oz.	15.6 pts.	2
	16 2/3 fl. oz.	4.9 gals.	5
	33 1/3 fl. oz.	9.7 gals.	10
	0.5 gals.	18.5 gals.	19
	1 gals.	37 gals.	38
	1.5 gals.	56.5 gals.	58
	2.5 gals.	91 gals.	96
2.0%*	5 gals.	187 gals.	192
	1 2/3 fl. oz.	30 1/3 fl. oz.	.25
	6 2/3 fl. oz.	7.6 pts.	1
	33 1/3 fl. oz.	4.74 gals.	5
	66 2/3 fl. oz.	9.5 gals.	10
	1	18 gals.	19
	2	36 gals.	38
	3	55 gals.	58
	5	91 gals.	96
	10	182 gals.	192

Common units of measure:

1 pint = 16 fluid ounces (oz.)

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

* For termite applications, only use these rates in conjunction

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with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

PRE-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

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

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

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.5% emulsion of PERMETHRIN PRO Termite-Turf-Ornamental. 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: Create a horizontal barrier wherever treated soil will be covered, such as footing trenches, slabs floors, carports, and the soil beneath stairs and crawlspaces.

For a 0.5% rate, apply 1 gallon of dilution per 10 square feet or use 1.6 fluid ounces of PERMETHRIN PRO Termite-Turf-Ornamental per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated.

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

Applications shall be made by a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a waterproof barrier such as polyethylene sheeting. This is not necessary if

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foundation walls have been installed around the treated soil.

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

For a 0.5% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 1.6 fluid ounces of PERMETHRIN PRO Termite-Turf-Ornamental per 10 linear feet per foot of depth from grade to top of footing in sufficient water (no less than 2 gallons or more than 8 gallons) to ensure complete coverage.

a. When trenching and rodding into the trench or trenching, it is important that emulsion reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous insecticidal barrier, but in no case more than 12 inches apart.

b. Care should be taken to avoid soil washout around the footing.

c. Trenches need not be wider than 6 inches. Emulsion should be mixed with the soil as it is being replaced in the trench.

d. For a monolithic slab, an inside vertical barrier may not be required.

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

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

POST-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

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

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

Where desirable for post construction treatments, the volume of the 1.0% emulsion may be reduced by ½ the labeled volume or a 2.0% emulsion may be applied at 1/4 the labeled volume (see Volume Adjustment Chart). Volume adjustments at 2.0% are not recommended for subslab injection. See Volume Adjustment Chart below.

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

RATE (% EMULSION)	0.5%	1.0%	2.0%
Volume allowed			
Horizontal (gallons emulsion/10 sq. ft.)	1.0 gallons	0.5 gallons	0.25 gallons*
Vertical (gallons emulsion/10 lin. ft.)	4.0 gallons	2.0 gallons	1.0 gallons*

*Not recommended for subslab injection.

After Treatment: All holes in commonly occupied areas into which PERMETHRIN PRO Termite-Turf-Ornamental has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Post-construction soil applications shall be made by injection, trenching, or rodding and trenching or coarse fan spray with pressure not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil wash-out around the footing.

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 puncturing and injection into these elements.

Foundations: For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Slabs: Vertical barriers may be established by sub-slab injection

within the structure and trenching, or rodding and trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior 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. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.
- b. For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The emulsion should be applied to the trench and soil at 4 gallons of emulsion per 10 linear feet per foot of depth as the soil is replaced in the trench.
- c. For foundations deeper than 1 foot follow rate for basement.
- d. Exposed soil and wood in bath traps may be treated with 0.5% emulsion.

Basements: Where the footing is greater than 1 foot in depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. When the footing is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footing. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.

Accessible Crawl Spaces: For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions, such as concrete

walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

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

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

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

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

Masonry Voids: Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of emulsion per 10 linear feet of footing using a nozzle pressure of less than 25 p.s.i. When using this treatment access holes must be drilled below the sill plate 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. Not for use in voids insulated with rigid foam.

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

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

Excavation Technique: If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation 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. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.
- c. After the trench soil has absorbed the liquid emulsion, replace the soil in the trench.

FOAM APPLICATIONS

PERMETHRIN PRO Termite-Turf-Ornamental termiticide/insecticide emulsion, from 0.5 to 2.0%, may be converted to a foam with expansion characteristics from 2 to 40 times.

LOCALIZED APPLICATION

Foam Applications: The emulsion may be converted to a foam and the

foam used to control or prevent termite infestations.

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 crawl spaces, 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.

Note location of electrical sources prior to foaming voids to avoid possible shock hazard.

APPLICATION UNDER SLABS OR TO SOIL IN CRAWLSPACES TO PREVENT OR CONTROL TERMITES

Application may be made using PERMETHRIN PRO Termite-Turf-Ornamental foam alone or in combination with liquid emulsion. The equivalent of at least 4 gallons (6.4 ounces of PERMETHRIN PRO Termite-Turf-Ornamental concentrate) of 0.5% emulsion per 10 linear feet (vertical barrier), or at least 1 gallon (1.6 ounces of PERMETHRIN PRO termite-Turf-Ornamental concentrate) of 0.5% emulsion per 10 square feet (horizontal barrier) must be applied either as emulsion, foam, or a combination of both. For a foam only application, apply PERMETHRIN PRO Termite-Turf-Ornamental concentrate in sufficient foam concentration and foam volume to deposit 6.4 ounces of concentrate per 10 linear feet or 1.6 ounces of concentrate per 10 square feet. For example, 1 gallon of 2% emulsion generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.5% emulsion per 10 linear feet.

SAND BARRIER INSTALLATION AND TREATMENT

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move PERMETHRIN PRO Termite-Turf-Ornamental treated soil. Fill in cracks and spaces with builder's or playbox sand and treat the sand with PERMETHRIN PRO Termite-Turf-Ornamental. The sand should be treated as soil following the termiticide rate listed on the PERMETHRIN PRO Termite-Turf-Ornamental label. These vulnerable or

reinfested areas may be retreated in accordance with application techniques described in this product's labeling.

RETREATMENTS

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. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors that 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.

APPLICATION IN CONJUNCTION WITH THE USE OF BAITING SYSTEMS.

As part of the integrated pest management (IPM) program for termite control, PERMETHRIN PRO Termite-Turf-Ornamental may be applied as a spot or local application to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations at a rate of 0.5% as a spot treatment or complete barrier treatment. Applications may be made as described in the Postconstruction treatment section of this label.

SPECIFIC PEST CONTROL APPLICATIONS

UNDERGROUND SERVICES

Such as: wires, cables, utility lines, pipes, conduit, etc. Services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) of, installations of service.

Soil treatment may be made using 0.5% to 1.0% PERMETHRIN PRO Termite-Turf-Ornamental emulsion to prevent attack by termites and ants.

Apply 2 to 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 to 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 service. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above labeled volume, 1 to 2 gallons of 1.0% PERMETHRIN PRO Termite-Turf-Ornamental 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 0.5% emulsion.

Previously installed poles and post may be treated by sub-surface injection or treated by gravity flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. 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. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

TREATMENT OF WOOD-IN-PLACE FOR CONTROL OF WOOD-INFESTING INSECTS (Localized Areas in Structure)

For the control of insects such as termites, ants, carpenter ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood in and around structures, apply a 0.5% 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. Paint on or fan spray applications may also be used. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawlspaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Control of Bees and Wasps Indoors: To control bees, wasps, hornets, and yellow jackets apply a 0.5% 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.

Termite carton nests in trees or building voids may be injected with 0.5% to 1.0% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

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.

RESIDENTIAL PEST CONTROL

PERMETHRIN PRO Termite-Turf-Ornamental is to be used for residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include, but are not limited to industrial buildings, houses, apartment building, laboratories, buses, greenhouses, and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (do not use in aircraft cabins), schools, nursing homes, hospitals (non-patient areas), restaurants, hotels, and food manufacturing, processing and servicing establishments.

Do not tank mix this product with dichlorvos (DDVP) containing products. Can be tank-mixed with Insect Growth Regulators (IGR's) or pyrethrin containing products. When mixing PERMETHRIN PRO Termite-Turf-Ornamental with other products, observe all precautions and limitations on the labels of each product. To prepare the emulsion, dilute PERMETHRIN PRO Termite-Turf-Ornamental with water only. To prepare a 0.50% emulsion, mix 1.6 oz. (50ml) in 1 gallon of water.

PERMETHRIN PRO Termite-Turf-Ornamental is an emulsifiable concentrate to be diluted with water and used to control pests in and around homes and other structures. The pests controlled are listed in the accompanying tables.

PERMETHRIN PRO Termite-Turf-Ornamental may be used as a broadcast or spot application to carpeting, wood, lawns and soil (crawl space and perimeter) and as a crack and crevice injection, or paint-on treatment. Crawlspace are considered inside the structure. Consult tables for specific use instructions.

BROADCAST TREATMENT OF WOOD FOR THE CONTROL OF WOOD-INFESTING INSECTS AND NUISANCE PESTS OUTSIDE OF STRUCTURE

Apply a 0.5% emulsion with a fan spray using a maximum of 25 psi. Do not allow runoff to occur.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill the interior infested cavity and inject a 0.5% emulsion. To control bees, wasps, hornets, and yellow-jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in the cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

PEST UNDER SLABS

Infestations of Arthropods, such as ants, inhabiting under slab area may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of a 0.5% to 1.0% emulsion per 10 square feet or 2 gallons per 10 linear feet.

PEST CONTROL IN CRAWLSPACES

Broadcast PERMETHRIN PRO Termite-Turf-Ornamental at 0.5% to all surfaces in crawlspace to control ants, fleas, roaches, 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 surface, do not allow run-off to occur. Keep children and pets off surface until dry.

PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS

Apply PERMETHRIN PRO Termite-Turf-Ornamental using a 0.5% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential structures, commercial, industrial and institutional buildings, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Repeat treatment as necessary to maintain.

Perimeter Treatment: Apply to band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Use a spray volume of 2 to 10 gallons of emulsion per 1000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. House siding may be treated if pests such as Gypsy moth adults and caterpillars, boxelder bugs, elm leaf beetles, earwigs or silverfish are present.

PEST	SPECIFIC INSTRUCTIONS																												
Ants 4 Ant Mounds 1,4 Armyworm 4 Fire Ants 4 Bees Wasps Carpenter Bees Bark Beetles 3 Borers 3 Boxelder Bugs 2,4 Centipedes Cockroaches 4 Asian Cockroaches Crickets 4 Mole Crickets 4 Earwigs Elm Leaf Beetles 2 Firebrats Fleas 4 Ground Beetles 4 Gypsy Moths (adults & caterpillars) 2 Millipedes Scorpions Sod Webworms 4 Silverfish Sowbugs Spiders 4 Ticks 4,5 Flies Carpenter Ants Chinchbugs 4 Pill Bugs	<p>Apply as a pinstream, as a fine/coarse spray, as a spot treatment or with a paintbrush. Treat where pests are found or entry points of the structure such as window and door frames and along the foundation. Do not apply to structures with high pressure sprayers such as air blast sprayers.</p> <p>1. Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mounds. Use the higher volume for mounds larger than 12". 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> <p>2. Boxelder Bugs, Elm Leaf Beetles, Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate, to the point of runoff.</p> <p>3. Borers and Bark Beetles: To prevent infestation of trees and woody ornamentals, spray the bark to the point of runoff.</p> <p>4. Apply PERMETHRIN PRO Termite-Turf-Ornamental at the rate 0.4 to 0.8 fluid ounces per 1000 square feet in a volume of water sufficient for uniform coverage such as 4 to 25 gallons. Use the lower rate to knock down existing pests and the higher rate where faster knockdown or greater residual is desired. For example:</p> <table><tr><td>Lawn</td><td>Sq.Ft</td><td>Oz. of PERMETHRIN 3.2 TT&O</td><td>Gals. of Water</td></tr><tr><td>Small</td><td>1,000</td><td>.4 to 0.8</td><td>4 to 25</td></tr><tr><td></td><td>2,000</td><td>0.8 to 1.6</td><td>8 to 50</td></tr><tr><td></td><td>3,000</td><td>1.2 to 2.4</td><td>12 to 75</td></tr><tr><td>Medium</td><td>6,000</td><td>2.4 to 4.8</td><td>24 to 150</td></tr><tr><td>Large</td><td>12,000</td><td>4.8 to 9.6</td><td>48 to 300</td></tr><tr><td>1 Acre</td><td>44,000</td><td>17.0 to 34.0</td><td>176 to 1,100</td></tr></table> <p>Lawn should not be longer than 3 inches at the time of application. Repeat application if necessary. Application in combination with compatible surfactants may enhance penetration. Arid climates generally require the higher volumes.</p> <p>5. Residual treatment for control of Deer tick (<i>Ixodes dammini</i>), western black-legged tick (<i>Ixodes pacificus</i>) and other ticks (important vectors for Lyme Disease, Rocky Mountain Spotted Fever).</p>	Lawn	Sq.Ft	Oz. of PERMETHRIN 3.2 TT&O	Gals. of Water	Small	1,000	.4 to 0.8	4 to 25		2,000	0.8 to 1.6	8 to 50		3,000	1.2 to 2.4	12 to 75	Medium	6,000	2.4 to 4.8	24 to 150	Large	12,000	4.8 to 9.6	48 to 300	1 Acre	44,000	17.0 to 34.0	176 to 1,100
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PEST CONTROL INDOORS

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

Non-Food/Feed Areas: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, and storage (after canning or bottling). All areas where insects hide or through which insects may enter should be treated.

Food/Feed Areas: PERMETHRIN PRO Termite-Turf-Ornamental is not labeled for use in food/feed areas. Do not use in food/feed areas of food/feed handling establishment, 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 use. Exposed food should be covered or removed.

Not for use in Federally Inspected Meat and Poultry Plants.

Use PERMETHRIN PRO Termite-Turf-Ornamental to control pests listed in the following table by application of a 0.5% emulsion.

PESTS	SPECIFIC INSTRUCTIONS
Fleas	Prior to treatment, carpets and furniture should be vacuumed thoroughly and vacuum cleaner bag discarded in an outdoor trash container. Evenly apply a broadcast spray at a rate of 1 gallon/per 800 to 1600 square feet to infested areas such as crawlspaces, rugs, carpets, pet beds and other pet resting areas. Avoid wetting or soaking. For crawlspace applications, the applicator must wear a respirator recommended by NIOSH for filtering spray mists and organic vapors. When treating upholstered furniture take care to treat between and under cushions. Pay particular attention to areas which are frequented by pets. Old pet bedding should be replaced with clean, fresh bedding after treatment. To control the source of flea infestations, pets inhabiting the treated premises should be treated with a flea-control product registered for application to animals.

PESTS	SPECIFIC INSTRUCTIONS
<p>Centipedes, Ants*, Carpenter Ants*, Fire Ants, Bat Bugs, Bed Bugs, Bees, Wasps Carpenter Bees, Boxelder Bugs, Cockroaches, Asian Cockroaches, Crickets, Flies- (such as Drain luster House), Earwigs, Firebrats, Ground Beetles, Leaf Beetles, Millipedes, Pantry Pests** such as: Flour Beetles, Indian Meal Moths, Larder Beetles, Pillbugs, Scorpions Silverfish, Sowbugs, Spiders</p>	<p>Apply crack and crevice, as a pinstream, as a find/course, low pressure spray (20 psi or less), spot application or with a paint brush. Treat where pests are found or normally occur, such as crack and crevices in walls, in and around kitchen cabinets and drawers, along baseboards, behind sinks and around plumbing and other utility installations.</p> <p>*Ant infested wood may be drilled and injected with PERMETHRIN PRO Termite-Turf-Ornamental.</p> <p>**Remove all utensils, uncovered foodstuffs (or any having original package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any food stuff accidentally contaminated with spray solution should be discarded.</p>
<p>Carpet Beetles</p>	<p>For the control of carpet beetles, evenly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets, on shelving, and wherever else these insects are seen or suspected. Avoid wetting or soaking.</p>
<p>Brown Dog Ticks</p>	<p>For the control of Brown Dog Ticks, evenly apply the spray to infested areas, such as pet beds and resting quarters, nearby cracks and crevices, along baseboards, windows and door frames, and areas of floor and floor coverings where these pests may be present. Avoid wetting or soaking. Old bedding should be removed and replaced with clean, fresh bedding after treatment.</p>

ATTENTION

Do not apply to pets, crops, or sources of electricity.

Do not allow people or pets on treated surfaces, such as carpets until the spray has dried.

Do not use concentrated or emulsion in fogging equipment.
Firewood is not to be treated.

During any application to overhead areas of structure, cover surfaces below with plastic sheeting or similar material (except where exempt).

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

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.

Do not treat areas where food is exposed.

During indoor surface applications do not allow dripping or run-off to occur.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.

Do not apply when occupants are present in the immediate area in institutions such as libraries, sport facilities, etc.

Do not apply to classrooms when in use.

Do not touch treated surface until dry.
Dealers Should Sell in Original Packages Only.

TURF AND ORNAMENTAL USE

PERMETHRIN PRO Termite-Turf-Ornamental has demonstrated excellent plant safety; however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale application.

Permethrin PRO Termite-Turf-Ornamental may be used to control insect pests on turf, ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

Also for use on plants intended for aesthetic purposes or climatic modification and being grown in interior plant-scapes, Field and container grown nursery stock, Greenhouses, trees and shrubs, ornamental gardens or parks, or lawns and grounds.

GENERAL APPLICATION INSTRUCTIONS

PERMETHRIN PRO Termite-Turf-Ornamental is a 3.2 pounds per gallon formulation of the insecticide permethrin. Apply PERMETHRIN PRO Termite-Turf-Ornamental when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. PERMETHRIN PRO Termite-Turf-Ornamental may be applied by ground equipment only. Use sufficient water to obtain full coverage.

Do not apply more than 2.0 lb. a.i./Acre/year.

RESISTANCE: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use areas. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

Spray Drift Precautions:

All ground application equipment must be properly maintained and calibrated using appropriate carriers.

Do not make ground applications during temperature inversions.

Make ground applications when the wind velocity favors on target product disposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph.

Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

RECOMMENDED APPLICATION RATES

CROP	PEST	RECOMMENDED RATE	SPECIFIC INSTRUCTIONS
Ornamentals in interiorscapes, in residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields, greenhouses, (including foliage and flowering plants, woody and herbaceous non-edible ornamentals and non-bearing plants of fruiting species)	Ants	4 to 8	Apply sufficient volume of water to adequately cover foliage.
	Aphids	fl.oz. per	
	Bagworm	100 gal.	Use higher rate for moderate to high infestations.
	Beet	or	
	Armyworm	Broadcast 4	Direct application to blooms may cause browning of petals.
	Birch	to 8 fl. oz.	
	Leafminer	per acre	Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern.
	Cabbage		
	Looper		
	Cankerworms		
	Citrus Thrips		
	Fungus Gnat		
	Gypsy Moth		
	Caterpillars		
	Heliothis spp		
	Japanese Beetles		
	Lace Bug		
	Leaf Feeding Caterpillars		
	Leafminers		
	Leafhoppers		
	Leafrollers		
	Lygus Bugs		
	Mealybugs		
	Pine Sawflies		
	Plant Bugs		
	Root Weevils (Adult)		
	Tent Caterpillars		
	Webworms		
	Whiteflies		
	Zimmerman Pine Moths		

CROP	PEST	RECOMMENDED RATE	SPECIFIC INSTRUCTIONS
Ornamental Trees	Clearwing Moth Borers, Ash Borer, Banded ash Clearwing Dogwood Borer, Lesser Peachtree borer, Lilac Borer, Oak Borer, Peachtree borer, Rhododendron borer	1 to 2 qts. per 100 gals.	Apply to the lower branches and trunk directly prior to adult emergence. Emergence varies according to host tree, environmental conditions and geography of the country. Complete heavy uniform coverage of bark on scaffold limbs to the ground level of the trunk is recommended for best control.
	Bark Beetles, Dendroctonus spp., Ips spp. Elm bark beetles Mountain Pine Beetle, Pine engravers, Turpentine beetles, Western Pine beetle	2 to 5 quarts per 100 gals.	
	Coleopteran borers Bronze birch borer, Flathead appletree borer	2 to 5 quarts per 100 gals.	
	For maximum residual control of the above listed pests- Use 2 to 5 quarts per 100 gals.		
Conifers	Nantucket Pine Tip Moth Coneworms*	4 to 8 fl.oz. per 100 gal. or Broadcast 4 to 8 fl. oz. per acre	Begin application when adults appear. Repeat applications may be made on 5-7 day intervals as needed.

CROP	PEST	RECOMMENDED RATE	SPECIFIC INSTRUCTIONS
Lawns around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields including golf courses	Chinchbugs Pillbugs Sod Webworm (See also list of pests under "Pest Control On Outside Surfaces and Around Buildings")	0.4 to 0.8 fl.oz. per 1,000 sq.ft.	Apply using sufficient water to provide adequate coverage.

*To control Coneworm-Use PERMETHRIN PRO Termite-Turf-Ornamental at the following rates:

For high volume sprayers: Use 8 ounces in 100 gallons of water. Apply 5 to 10 gallons in finished spray per tree.

For low volume sprayers: Use 42 ounces in 100 gallons of water. Apply 100 gallons per acre.

To control Webbing Coneworm - Make first application within 1 week of female flower closure or peak pollen flight.

To control other coneworms - Make first application within 30 days following flower closure.

APPLICATIONS TO AGRICULTURAL STRUCTURES

For Agricultural use only

GENERAL APPLICATION INSTRUCTIONS

PERMETHRIN PRO Termite-Turf-Ornamental can be used for residual pest control in and on buildings and structures used for agricultural purpose, their immediate surroundings.

PERMETHRIN PRO Termite-Turf-Ornamental is an emulsifiable concentrate to be diluted with water and applied as an emulsion to control pests in and around agricultural structures. Pests controlled are listed in the accompanying tables.

AGRICULTURAL STRUCTURES

Spray directly or spot treatment to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water.

FOR APPLICATION IN	TARGET INSECTS	METHOD OF APPLICATION	DILUTE	APPLICATION RATE
Dairies, Barns, feedlots, stables, poultry houses, swine and livestock houses	Lesser mealworm, Darkling beetles, House flies, Stable flies and other manure breeding flies. Also aids in the reduction of cockroaches, mosquitoes and spiders.	Sprayer	4 ounces to 12.5 gallons of water	1 gallon per 750 square feet of surface
		Fog or Mist	1.5 to 2.0 ounces per 1 gallon of water.	2 ounces per 1,000 cubic feet of surface

AS A LIVESTOCK SPRAY

ANIMALS	INSECT	DILUTE & USE	APPLICATION RATE
Lactating and Non-lactating Dairy Cattle and Goats, Beef Cattle and Sheep	Horn Flies only	4 fl. ounces to 50 gallons water (treats 200 head) 0.025% active ingredient (AI) High pressure spray	1 quart of coarse spray per animal.
	Horn flies Face flies Stable flies House flies Horse flies Deer flies Black flies Eye gnats Mange mites Scabies mites Ticks Lice Sheep keds	4 fl. ounces to 25 gallons water (treats 50-100 head) 0.05% AI High pressure spray	1-2 quart of coarse spray per animal over whole body surface. For mange, scabies, ticks and lice thoroughly wet animal. Repeat application 10-14 days for mites and lice
	Horn flies Face flies Stable flies Ear ticks Lice	4 fl. ounces to 2 1/2 gallons water (treats 64-80 head) 0.5% AI Low pressure spray (hand pump sprayer)	For fly and lice control, spray mid-line from face to tailhead to point of runoff (4-5 fl oz) for ear tick control spray directly into each ear (1/2 fl oz each).
	Horn flies Face flies Stable flies	4 fl oz to 10 gallons diesel oil or suitable mineral oil. 0.125% AI back rubber, self oiler	Keep rubbing device charged. Results improve by daily forced use.
Poultry	Northern fowl mites Lice	1 - 4 fl oz to 3 3/4 gallons water (treats 1500 head) 0.08-0.33% AI High pressure spray	1 gallon of coarse spray per 100 birds paying particular attention to vent area.
Swine (Allow 5 days between last treatment and slaughter)	Lice and Mange	4 fl oz to 25 gallons water (treats 50-100 head) 0.05% AI Sprayer or dip	Thoroughly wet or dip animals including ears. For mange, spray pen floors, sides and bedding. Repeat at 14 days.
Horses	Horn flies Face flies Stable flies House flies Horse flies Black flies Eye gnats Mange mites Scabies mites Ticks Lice Fleas	1/4 fl oz to 1 pint water 0.625% AI Low pressure spray	1-2 fl oz spray per animal. Spot treat back, face, legs, tail and ears
		1/4 fl oz to 1 1/4 gallons water 0.0626% AI Dip wash	Thoroughly wet animal to skin with sponge or rag. Let drip dry

ATTENTION

Do not apply to pets, crops, or sources of electricity.

Firewood is not to be treated.

Use only in well ventilated areas.

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

Dealers Should Sell in Original Packages Only

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: MICRO FLO COMPANY makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

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