

7/24/97

PM 13

10182-95

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Mr. S.K. Theodorakis
Zeneca Agricultural Products
P.O. Box 15458
Wilmington, DE 19850-5458

JUL 24 1997

Dear Mr. Theodorakis:

Subject: Label Amendment- acute toxicity classification and update
for PR Notice 96-7
Torpedo Insecticide
EPA Registration Number 10182-95
Your submissions dated March 26 and December 10, 1996 and
March 10, 1997

The product referred to above will be acceptable for registration under FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below:

a. On page 20 either delete aircraft or qualify as follows: aircraft (cargo areas only).

b. On page 28 revise the statement to read "Not for use in federally inspected meat and poultry plants".

3. Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-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 FIFRA 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.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

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PRELUDE[®]
Termiticide/Insecticide

**ONLY FOR SALE TO, USE AND STORAGE BY PROFESSIONAL
PEST CONTROL OPERATORS**

COMPLETE DIRECTIONS FOR USE

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

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

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECT OF THE USER OR BUYER, THE REPLACEMENT OF THE PRODUCT.**

ACCEPTED
COMMENTS
EPA Letter Dated

JUL 24 1997

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

10182-95

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

Made in U.S.A.
ZENECA Professional Products
ZENECA Inc.
Wilmington, DE 19850-5458

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KEEP OUT OF REACH OF CHILDREN

WARNING CAUTION

ACTIVE INGREDIENT:

Permethrin

(3-phenoxyphenyl)methyl(±)-*cis,trans*-3-(2,2-dichloroethenyl)-2,

2-dimethylcyclopropanecarboxylate* 25.6%

INERT INGREDIENTS 74.4%

TOTAL 100.0%

**Cis/trans* ratio: Min. 35% (±) *cis* and max. 65% (±) *trans*

PRELUDE contains 2 pounds active ingredient per gallon.

EPA Reg. No. 10182-95
U.S. Patent No. 4,024,163

STATEMENT OF PRACTICAL TREATMENT

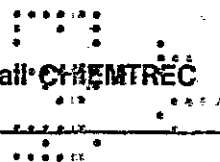
~~IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Control Center. Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages from aspiration of the solvent. If victim is alert and not convulsing, rinse mouth out and give 200-300 mL (1 cup) of water to dilute material. IMMEDIATELY contact your local Poison Control Center. Vomiting should only be induced under the direction of a physician or a Poison Control Center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in or vomitus, rinse mouth and administer more water. IMMEDIATELY transport victim to an emergency facility.~~

~~IF IN EYES: Flush eyes with plenty of water. Call a physician. Get medical attention if irritation persists.~~

~~IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.~~

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D (327-8633)

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING ~~CAUTION~~

HARMFUL IF SWALLOWED, OR ABSORBED THROUGH SKIN OR INHALED. MAY CAUSE EYE IRRITATION. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, and chemical-resistant gloves. In addition, all pesticide handlers must wear a respiratory protection device when working in a non-ventilated space, all pesticide handlers must wear protective eyewear (goggles and/or a face shield and/or shielded safety glasses with front, brow and temple protection) when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

Use one of the following Mine Safety and Health Administration (MSHA) National Institute for Occupational Safety and Health (NIOSH) respirator types with approval number prefixes: TC-21C (Dust/mist filtering), TC-19C (Supplied-air), TC-13F (Self-contained breathing apparatus (SCBA)), TC-14G (Organic vapor removing with pre-filter for removing pesticides).

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 the label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. 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 apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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

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PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Do not use in commercial greenhouses or nurseries. Not for use on plants or turf being grown for sale or other commercial use, or for commercial seed production, or for research purposes. Do not use on food or feed crops. For use on plants intended for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamentals, gardens or parks, or lawns and grounds.

STORAGE AND DISPOSAL

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

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

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

CONTAINER 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 burning. If burned, stay out of smoke.

Refillable Return Containers: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning.

Container Precautions: Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. REFILL ONLY WITH PRELUDE® Termiticide/Insecticide. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than PRELUDE® Termiticide/Insecticide will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking containers.

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CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER!

GENERAL INFORMATION ON THE USE OF THIS PRODUCT FOR TERMITE CONTROL

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

Chemicals for soil treatment are used to establish a barrier against termite attack. 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.

For the effective use of this product, it is necessary that the service technician be familiar with current control practices including trenching, rodding, subslab injection, and low-pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of *Reticulitermes*, *Zootermopsis*, *Heterotermes* and *Coptotermes*. Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions, location and type of domestic water supplied and drainage systems. The biology and behavior of the termite 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.

Effective termite control also includes elimination of termite access to moisture by recommending repair of faulty construction grade and/or plumbing. It is recommended to remove all wood and cellulose containing debris in contact with soil from crawl spaces, porches, and around foundations.

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

SUBTERRANEAN TERMITE CONTROL

USE DIRECTIONS

Apply 0.5% to 1% emulsion to establish subsurface termite control barriers specified on product labeling. Avoid contamination of public and private water supplies by following these precautions:

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

Consult State and local specifications for recommended distance of treatment areas from wells. Refer to Federal Housing Administration Specifications for guidance on preconstruction treatments if no State or local government recommendations are available.

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 Prelude Termiticide.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

To prepare a 0.50% water emulsion, ready for use, dilute 2 gallons of Prelude Termiticide with 98 gallons of water. To prepare a 1% water emulsion, ready to use, dilute 4 gallons of Prelude Termiticide with 98 gallons of water. For termite control operations requiring smaller volumes use 2.6 fluid ounces of Prelude Termiticide per gallon of water to achieve a 0.50% concentration.

After Treatment: Securely plug all holes drilled in construction elements of commonly occupied areas of structures, including unfinished basements, enclosed porches, garages, and workshops. All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be in a non-cellulose material or covered by an impervious, non-cellulose material.

APPLICATION VOLUMES

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.

To ensure thorough coverage in different soil types, it may become necessary to adjust the volume being applied, provided there is a corresponding rate adjustment so that the amount of active ingredient applied to the soil remains the same. In situations which will not accept large amounts of water, such as clay-rich soils, reduced volumes of emulsion can be used which will deliver the appropriate concentration of termiticide to the soil. This may also apply to sensitive areas and/or applications where less volume may be desirable.

Where soil conditions will not accept application of specified volume (gallons) of emulsion, the 1% emulsion may be applied at one-half the application volume or a 2% emulsion may be applied at one-half the labeled application volume.

NOTE: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustments to account for lower volume dispersal of the termiticide in the soil. Volume adjustments at 2% are not recommended for subslab injection.

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VOLUME ADJUSTMENT CHART			
Volume Allowed	Rate (% Emulsion)		
	0.5%	1%	2%
Horizontal (gallons emulsion/10 ft ²)	1 gallon	½ to 1 gallon	¼ to ½ gallon*
Vertical (gallons emulsion/10 linear ft)	4 gallons	2 to 4 gallons	1 to 2 gallons*

* Not recommended for subslab injections.

PRECONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

Effective preconstruction subterranean termite control requires the establishment of an unbroken vertical and/or horizontal chemical barrier between wood in the structure and the termite colonies in the soil.

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.

To meet F.H.A. termite-proofing requirements, follow the latest edition of the Housing and Urban Development (H.U.D.) Minimum Property Standards.

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.

~~Use a 0.5 to 1.0% emulsion for subterranean termites. Mix 2-4 gallons of PRELUDE in 98 gallons of water.~~

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

HORIZONTAL BARRIERS: Before footings are poured, horizontal barriers may be established in footing trenches. Then, after interior grading is completed and prior to the

pouring of concrete slabs, horizontal barriers may be established on soil that will be covered by floors, entrance platforms, or porches, and in other critical areas that will be covered by construction. To provide a horizontal barrier, 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 1-1/2 gallons per 10 square feet.

- Applications shall be made with low pressure (less than 50 p.s.i. at the nozzle) using a coarse-spray nozzle when establishing horizontal barriers.
- If concrete slabs cannot be poured over soil the same day it has been treated, a waterproof cover, such as polyethylene sheeting, should be placed over the soil to prevent erosion. This is not necessary if foundation walls have been installed around the treated soil.

VERTICAL BARRIERS: After the foundation walls have been poured or built, vertical barriers may be established around the perimeters of floating or supported slabs, around utilities penetrating the slab, and in other critical areas. After the final exterior grading is completed, vertical barriers may be created in back-filled soil against foundation walls. To produce a vertical barrier, apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from grade to the top of the footing. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet.

Outside and inside perimeter applications may be made by rodding and/or trenching. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings, except when the footing is exposed at or above grade. Special care should be taken to avoid soil washout around the footing.

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

When the footer is more than 4 feet below grade, the applicator may trench and/or rod along foundation wall at 2 to 4 feet of depth. The actual depth of treatment should vary depending on soil type and degree of compaction.

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

HOLLOW MASONRY UNITS OF THE FOUNDATION: In preconstruction situations in which application is not made to soil prior to pouring the footing, treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gallons per 10 linear feet. Apply the emulsion so it will reach the footing. 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

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rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

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

Not for use in voids insulated with rigid foam.

Do not treat in this manner through voids in walls constructed on interior slabs such as basement floors.

CRAWL SPACES: For crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing. When the footer is more than 4 feet below grade, the applicator may trench and/or rod along foundation wall at 2 to 4 feet of depth. ~~The actual depth of treatment should vary depending on soil type and degree of compaction.~~ 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 washout around the footing. Treatment should include both sides of foundation and around all piers and pipes extending from the soil.

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

MONOLITHIC SLABS: In the case of a single-pour monolithic slab that does not have a separate foundation or footing, an overall horizontal barrier should be created before the concrete is 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 ½ 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 pipe.

Exterior vertical barriers should be created after the concrete has been poured and final grade established. Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth to the bottom of the concrete.

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POSTCONSTRUCTION TREATMENTS

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

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

~~Use a 0.5 to 1.0% emulsion for subterranean termites. Mix 2-4 gallons of PRELUDE in 98 gallons of water.~~

Rodholes or trenches should not extend below the footing because of the possibility of soil washout by the emulsion.

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

SLAB-ON-GROUND: Vertical barriers may be established by subslab injection inside and rodding and/or 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. Injectors should not extend below the tops of the footings.

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

Horizontal barriers may be established where necessary by long rodding or by a grid pattern injection using a rate of 1 to 1 ½ gallons of emulsion per 10 square feet depending on fill type and condition.

Drill holes should be spaced in a manner that will allow for application of a continuous chemical barrier.

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

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

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

HOLLOW MASONRY UNITS OF FOUNDATION WALLS: 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 linear feet of footing. Where this treatment is necessary, access holes must be drilled below the sill plate and should be through a lower mortar joint as close as possible to the footing. 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.

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

Not for use in voids insulated with rigid foam.

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

BASEMENTS: Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from the grade to the top of the footing. For example a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet. Application shall be made by subslab injection, trenching and/or rodding.

Inside: Treatment may be required along inside of foundation walls and along one side of interior partition walls especially where the wall is connected by fixtures inserted in the floor. Application may also be necessary around sewer pipes, floor drains, conduits, or any cracks in the basement floor. Drill holes should be spaced in a manner that will allow for application of a continuous chemical barrier. **NOTE:** Sandy soils will tend to give less lateral dispersion than clay soils. Spacing should be determined by soil type.

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



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

When the footer is more than 4 feet below grade, the applicator may trench and/or rod along foundation wall at 2 to 4 feet of depth. The actual depth of treatment should vary depending on soil type, degree of compaction, and location of termite activity.

ACCESSIBLE CRAWL SPACES: Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from the grade to the top of the footing. For best results application should be made by rodding and/or trenching.

Treat both sides of foundation and around all piers and pipes. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.

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

When the footer is more than 4 feet below grade, the applicator may trench and/or rod along foundation wall at 2 to 4 feet of depth. The actual depth of treatment should vary depending on soil type, degree of compaction, and location of termite activity.

To prevent subterranean termites from constructing tubes from soil to crawl space wood members above, an overall soil treatment of this product may be applied. Remove all cellulose debris before application of 1 gallon per 10 square feet overall. Use fans to exhaust crawl space air when working in a confined space. Wear appropriate protective clothing, gloves, and unvented goggles. Keep children and pets out of treated area in crawl space until surface is dry.

When treating plenums or crawl spaces, turn off the air circulation system of the structure until application generated dust or spray mist has settled and treated surface is dry.

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.

• Rod holes and trenches must not extend below the bottom of the footing.

• Rod holes must be spaced so as to achieve a continuous chemical barrier but in no case more than 12 inches apart.

Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (bermed) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.

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

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

To establish a horizontal barrier, apply to the soil surface, 1 gallon of emulsion per 10 sq. ft. overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one of more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.

To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not be exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

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

~~Inaccessible crawl spaces are those in which the interior clearance prohibits entry and treatment by the applicator. The following methods of treatment may be used:~~

- ~~• Excavation of the crawl space to make it accessible space, then treat as an accessible space.~~
- ~~• Drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 4 gallons of emulsion per 10 linear feet per foot of soil depth.*~~
- ~~• Apply to the soil surface of the crawl space with a coarse fan sprayer with pressures not exceeding 25 p.s.i. at the nozzle. Apply at the rate of 1 gallon of emulsion per 10 square feet.*~~

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

If adequate ventilation is not available in the crawl space, wear a respirator approved by the Mine Safety and Health Administration during treatment.

It is recommended that inadequately ventilated crawl spaces be brought into compliance with FHA Minimum Property Standards specifying 1 square foot of ventilated opening per 150 square feet of crawl space area.

BATH TRAPS: Where there is exposed soil beneath and around plumbing/waist pipe entrances through a concrete slab, this soil may be treated with 0.5% emulsion 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 (from board materials) or cellular debris, treat the soil by rodding and/or flooding with 0.5% emulsion of this product.

FOAM APPLICATIONS

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

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

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

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

Rates: Use a 0.5% to 2.0% emulsion converted to a foam with expansion characteristics from 2 to 20 times.

Note: When using a foaming product be sure that it is compatible with PRELUDE.

Applications Under Slabs or to Soil in Crawl Spaces:

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

Applications to Other Areas:

- Applications may be made using either PRELUDE foam alone or in combination with a liquid emulsion.
- Applications may be made behind veneers, piers (concrete or wood), chimney bases, into rubble foundations, into block voids, structural voids (i.e., between stud walls), poles, stumps, and wood in crawl spaces.
- Applications may be made in other areas, which include but are not limited to:

- Foundations penetrated by utility services.
- Cracks and expansion joints.
- Bath traps.
- Areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

POSTS, POLES AND OTHER CONSTRUCTIONS

Application may be made to create a chemical barrier in the soil around wooden construction such as signs and landscape ornamentation by applying a 0.5% to 1.0% emulsion. Treat on all sides to create a continuous barrier around posts and poles.

Use 1 gallon of emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1 ½ gallons of emulsion per foot of depth. For large constructions, use 4 gallons per 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. Previously installed poles and posts may be treated by subsurface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous chemical barrier. Apply to a depth of six inches below the bottom of the wood.

Do not contaminate wells or cisterns.

STRUCTURES WITH WELLS/CISTERNS INSIDE FOUNDATIONS

Structures 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. (If Mixing Directions are not already on the label, provide directions in this section.) Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.

(c) After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

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

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

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

(1) Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure. If the pipe(s) enter the structure within 3 feet of grade.

(2) Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. 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.

EXCAVATION TECHNIQUE: ~~If treatment must be made in difficult situations such as near wells or cisterns, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure, application may be made in the following manner:~~

- ~~1. Trench and remove soil to be treated onto heavy plastic sheeting or similar material.~~
- ~~2. 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.~~
- ~~3. After the treated soil has dried adequately, replace the soil in the trench.~~

~~Prior to using this technique near wells or cisterns consult State, local or Federal regulatory agencies for information regarding approved treatment practices in your area.~~

AFTER TREATMENT: Before leaving the job site, securely plug all holes drilled in construction elements of commonly occupied areas of structures, including unfinished basements, enclosed porches, garages, and workshops.

UNDERGROUND SERVICES

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

Soil treatment may be made using a 0.5% to 1% PRELUDE 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 conditions will not accept application of specified volume of 0.5% emulsion, the 1% emulsion may be applied at one-half the application rate or 2 gallons per 10 linear feet.

Finish filling the trench with untreated 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.

Precaution: Do not treat electrically-active underground services.

RETREATMENT

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

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

~~Retreatment for subterranean termites should be made when there is evidence of reinfestation subsequent to the initial treatment, or there has been a disruption of the chemical barrier in the soil due to construction, excavations, landscaping, etc. Retreatment should be made as a spot application to these areas.~~

~~If 0.5% rate is used, the property should be inspected annually for possible reinfestation and retreatment if necessary.~~

~~Retreatment may be made to vulnerable areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas. Routine or annual retreatment of the entire premises should be avoided.~~

TREATMENT OF WOOD IN PLACE FOR CONTROL OF TERMITES AND WOOD-INFESTING BEETLES

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

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.

In the home all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before reuse. Remove pets, birds, and cover aquariums before spraying indoors. Do not permit humans or pets to contact treated surfaces until the spray has dried.

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

TERMITES ABOVE GROUND: For control of termites, subterranean aerial colonies, Formosan aerial colonies, or drywood termites in localized areas of infested wood in structures, apply a 0.25% ~~0.50%~~ emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Application may be made to inaccessible areas by drilling, and then injecting 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 0.25% ~~0.50%~~ 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. Make treatments at a rate of 1 gallon of the emulsion per 1,000 sq. ft. of surface area.

For termites active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject 0.25% ~~0.50%~~ emulsion using treatment tool with a splashback guard.

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

~~Mixing Information: For wood in place and above-ground treatments, use a 0.25% concentration. To prepare a 0.25% emulsion, add 1.3 fluid ounces of PRELUDE to 1 gallon of water. To prepare 50 gallons of emulsion, add 0.5 gallons (2 quarts) of PRELUDE to 49.50 gallons of water. To prepare 100 gallons of emulsion, add 1 gallon of PRELUDE to 99 gallons of water. Use this spray at a rate of 1 gallon of diluted spray per 1,000 square feet of surface area.~~

CONTROL OF WOOD-INFESTING BEETLES: To control wood infesting insects such as powderpost beetles (Lyctidae), false powderpost beetles (Bostrichidae), deathwatch beetles (Anobiidae), old house borers (Cerambycidae) and ambrosia beetles (Scolytidae) in homes and other structures, apply as an emulsion containing 0.5% PRELUDE. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray. When making applications to overhead interior areas of homes, apartment buildings, etc., cover all surfaces below the area being treated,

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except soil surfaces in crawl spaces, with plastic sheeting or other material which could be disposed of by placing in trash if contamination from dripping occurs. Treated surfaces should be avoided until application has completely dried. 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.

GENERAL INFORMATION FOR INDOOR/OUTDOOR PEST CONTROL

PRELUDE 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 buildings, laboratories, buses, noncommercial greenhouses and the nonfood/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft, 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 PRELUDE with other products, observe all precautions and limitations on the labels of each product. To prepare the emulsion, dilute PRELUDE with water only. ~~To prepare a 0.50% emulsion, mix 2.6 oz. in 1 gallon of water.~~

PRELUDE 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.

PRELUDE may be used as a broadcast or spot application to carpeting, wood, ~~home or residential lawns only~~ and soil (crawl space and perimeter) and as a crack and crevice injection, or paint-on treatment. Crawl spaces are considered inside the structure. Consult tables for specific use instructions.

CONTROL OF BEES AND WASPS INDOORS

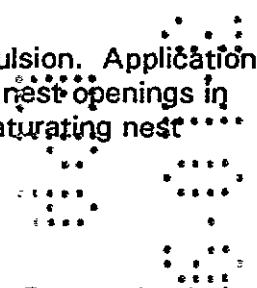
To control bees, wasps, hornets and yellow jackets, apply a 0.5% emulsion. Application should be in late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

CONTROL OF BEES AND WASPS OUTDOORS

To control bees, wasps, hornets, and yellow jackets, apply a 0.5% 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.

RECOMMENDATION FOR CONTROL OF CLUSTER FLY

Apply PRELUDE to the outside of the structure. Mix 1 part PRELUDE to 5 parts deodorized lightweight mineral oil; apply to 1,000 square feet of wall area. Use a fogging apparatus which delivers the material in a strong air carrier, producing a small particle size. The



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apparatus should be held within three feet of the surface being treated. Apply only when air movement is less than 2 miles per hour.

The surface treated should be dry at the time of application. Attics and unoccupied lofts should be treated at the same time and at the same rate.

TREATMENT OF WOOD ~~GENERAL INFORMATION~~ FOR CONTROL OF WOOD-INFESTING INSECTS AND NUISANCE PESTS OUTSIDE OF STRUCTURES

PRELUDE may be diluted with water for use to control pests in and around homes and other structures. Pests controlled are listed in the following tables.

UNDER SLABS

Infestations of Arthropods, such as ants, cockroaches and scorpions 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% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

IN CRAWL SPACES

Broadcast PRELUDE at 0.5% to 1% to all surfaces in crawl spaces to control ants, fleas, cockroaches, scorpions, or other arthropods. Product may also be applied through under-structure insecticidal delivery systems such as piping or flexible tubing mounted under the structure. This treatment is not intended as a substitute for termite control. Treat surfaces to point of runoff. Keep children and pets off surface until dry.

LANDSCAPED LAWN AND ORNAMENTAL AREAS

PRELUDE may be used to control insect pests on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields.

Apply PRELUDE 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. Use sufficient water to obtain full coverage.

PRELUDE 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.

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

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Recommended Application Rates:

USE	PEST	RECOMMENDED RATE	SPECIFIC INSTRUCTIONS
ORNAMENTALS IN RESIDENTIAL LANDSCAPED AREAS AND LANDSCAPED AREAS AROUND INSTITUTIONAL PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS AND ATHLETIC FIELDS (including Trees, Shrubs, Flowers, Evergreens, Foliage Plants and Ground Covers)	Ants Aphids Bagworm Beet Armyworm Cabbage Looper Citrus Thrips Fungus Gnat Heliothis spp. Japanese Beetles Lace Bug Leaf Feeding Caterpillars Leafminers Leafhoppers Leafrollers Lygus Bugs Mealybugs Root Weevils (Adult) Whiteflies	6.4 - 12.8 fl. oz. per 100 gallons	Apply sufficient volume of water to adequately cover foliage. Use higher rate for moderate to high infestations. Direct application to blooms may cause browning of petals. Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern.
LAWNS AROUND RESIDENTIAL INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS AND ATHLETIC FIELDS	Chinchbug Grubs Pill Bugs Sod Webworm (See also list of pests under Outside Surfaces and Around Buildings)	0.64 - 1.28 fl. oz. per 1000 ft ²	Apply using sufficient water to provide adequate coverage. Do not apply more than 2lbs a.i./A/yr.

APPLICATIONS TO AGRICULTURAL STRUCTURES For Agricultural Use Only

GENERAL APPLICATION INSTRUCTIONS

PRELUDE can be used for residential pest control in and on buildings and structures used for agricultural purposes, and their immediate surroundings.

PRELUDE 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. PRELUDE may be applied as a spray or spot treatment to walls and ceilings as a residual surface treatment. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

AGRICULTURAL STRUCTURES

Spray directly to walls and ceilings as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

For Application In	Target Insects	Method of Application	Dilute	Application Rates
Dairies, barns, feedlots, stables, poultry houses, swine and livestock houses	House flies, stable flies and other manure breeding flies. Also aids in the reduction of cockroaches, darkling beetles, mosquitoes and spiders.	Sprayer	6 ounces to 11.5 gallons water	1 gallon per 750 square feet of surface

OUTSIDE SURFACES AND AROUND BUILDINGS

Apply PRELUDE using a 0.5% emulsion as a residual spray treatment to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps; lawn or grass adjacent to and 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 effectiveness.

Keep children and pets off treated areas until dry.

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When making an application to vinyl siding, treat a small area and allow to dry. Some types of vinyl siding, particularly if aged or weathered, may show some staining after application to an emulsifiable concentrate product.

BARRIER TREATMENT: Apply 0.5% to a 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 treatment volume of 2 to 10 gallons per 1,000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or dense foliage. House siding may be treated if pests such as Gypsy moth adults and caterpillars, boxelder bugs, elm leaf beetles, earwigs, or silverfish or other similar pests are present.

PEST	SPECIFIC INSTRUCTIONS			
<p>Ants Ant Mounds¹ Fireants¹ Bark Beetles³ Bees Carpenter Bees Borers³ Boxelder Bugs² Centipedes Cockroaches Asian Cockroaches Crickets Mole Crickets Earwigs Elm Leaf Beetles² Firebrats Fleas⁴ Ground Beetles Gypsy Moths (Adult & Caterpillars)² Millipedes Scorpions Seed bugs² Silverfish Sowbugs Spiders Wasps Ticks⁴ Flies Carpenter Ants Chinch bugs Pill Bugs</p>	<p>Apply as a pinstream, as a fine/course, low pressure spray (20 psi or less), 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.</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 mound. 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, Seed Bugs: 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 Fleas and Ticks: Mix 2.5-5.0 oz. of PRELUDE in 16 to 100 gallons of water and apply to 4,000 square feet of lawn. Use the lower rate to knock down existing fleas and the higher rate where faster knockdown or greater residual is desired.</p> <p>For residential lawns, apply PRELUDE at the rate of 0.64 to 1.28 fluid ounces per 1,000 ft² in a volume of water sufficient for uniform coverage such as 3 to 20 gallons. Use the lower rate to knock down pests and the higher rate where faster knockdown or greater residual is desired. For example, refer to table below:</p>			
	LAWN	SQ. FT.	OZ. OF PRELUDE	GALS. OF WATER
	Small	1,000	0.64 to 1.28	3 to 20
		2,000	1.25 to 2.50	8 to 50
		4,000	2.50 to 5.00	16 to 100
	Medium	6,000	3.75 to 7.50	24 to 150
	Large	12,000	7.50 to 15.0	48 to 300
	1 Acre	44,000	20.8 to 41.6	176 to 1,100
	<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 volume.</p> <p>Do not apply more than 2 lbs. a.i. per acre per year</p>			

PEST CONTROL INDOORS

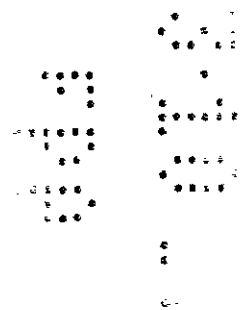
Food Handling Establishments: Places other than private residences in which food is held, processed, prepared or served.

Food/Feed Areas: PRELUDE is not labeled for use in food/feed areas. Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in service areas while food is exposed or facility is in operation. Service areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Not for use in USDA Meat and Poultry Plants.

Nonfood/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.

Use PRELUDE to control pests listed in the following table by application of a 0.5% emulsion.

PEST	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 crawl spaces, rugs, carpets, pet beds and other pet resting areas. Avoid wetting or soaking. For crawl space 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.



PEST	SPECIFIC INSTRUCTIONS
<p>Centipedes Ants* Carpenter Ants* Fire Ants Bat Bugs Bed Bugs Bees and Wasps Carpenter Bees Boxelder Bugs Cockroaches Asian Cockroaches Crickets Flies Such as: Drain, Cluster, House Earwigs Firebrats Ground Beetles Leaf Beetles Millipedes Pantry Pests** Such as: Flour Beetles, Indian Meal Moths, Larder Beetles Pillbugs Scorpions Seed bugs Silverfish Sowbugs Spiders</p>	<p>Apply crack and crevice, as a pinstream, as a fine/coarse, low pressure spray (20 psi or less), spot application or with a paint brush. Treat where pests are found or normally occur, such as cracks 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 PRELUDE.</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, foodstuffs or other items. Any foodstuffs 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>

GENERAL PRECAUTIONS AND RESTRICTIONS

Do not use in food or feed areas of food handling establishments, restaurants or other areas where food or 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 food are served such a dining rooms but excluding areas where food may be prepared or held.

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

Not for use in USDA meat and poultry plants.

DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.

Do not apply in warehouses where raw or cured tobacco is stored.

Do not apply in warehouses while raw agriculture commodities for food or feed are being stored.

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

Do not allow spray to contact food, foodstuffs, food contacting surface 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 apply to pets, crops, firewood or sources of electricity.

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

Do not use concentrate or emulsion in fogging equipment.

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

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

When applying PRELUDE in a confined area, the user should wear protective clothing, unvented goggles, rubber gloves, and a respirator approved by the Mine Safety and Health Administration during application.

SPRAY DILUTIONS*

CONCENTRATION OF A.I.	AMOUNT OF PRELUDE	AMOUNT OF WATER
0.25%	1.3 fl. oz.	1 gal.
0.25%	2 qts.	49.5 gals.
0.25%	1 gal.	99 gals
0.50%	2 gals.	98 gals.
0.50%	2.6 fl. oz.	1 gal.
1.0%	4 gals.	98 gals.
2.0%	10.4 fl. oz.	1 gal.
2.0%	8 gals.	98 gals.

*Fill sprayer with the desired volume of water and add PRELUDE® Termiticide/Insecticide. Close spray container and shake or agitate before use to ensure proper mixing. Make up diluted material only as required.

