

432-1362

9-10-2004

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98

**EPA**

United States  
**Environmental Protection Agency**  
 Washington, DC 20460

**Registration**  
 **Amendment**  
 **Other:**

OPP Identifier Number  
 298772

**Application for Pesticide - Section I**

1. Company/Product Number  
 432-1362

2. EPA Product Manager  
 D. Kenny

3. Proposed Classification

4. Company/Product (Name)  
**Premise 0.5SC Insecticide**

PM#  
 4A

None  Restricted

5. Name and Address of Applicant (Include ZIP Code)  
**Bayer Environmental Science, A Business Group  
 of Bayercropscience LP, 95 Chestnut Ridge  
 Road, Montvale, N.J. 07645**

**PLEASE SEND ALL CORRESPONDENCE TO  
 "CONTACT POINT" LISTED BELOW**

Check if this is a new address

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)  
 (b)(I), my product is similar or identical in composition and labeling  
 to:

EPA Reg. No. \_\_\_\_\_

Product Name \_\_\_\_\_

**Section - II**

Amendment - Explain below.

Resubmission in response to Agency letter dated \_\_\_\_\_

Notification - Explain below.

Final printed labels in response to Agency letter dated \_\_\_\_\_

"Me Too" Application

Other - Explain below

**NOTIFICATION**

SEP 10 2004

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Additional Patent Language added to last page**

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging

Yes\*  
 No

Unit Packaging

Yes  
 No

Water Soluble Packaging

Yes  
 No

2. Type of Container

Metal  
 Plastic  
 Glass  
 Paper  
 Other (Specify)

**\*Certification must  
 be submitted**

If "Yes"  
 Unit Packaging wgt. No. per  
 container

If "Yes"  
 Package wgt. No. per  
 container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container

5. Location of Label Directions  
 On Label  
 On labeling accompanying product

6. Manner in Which Label is Affixed to Product  
 Lithograph  Other \_\_\_\_\_  
 Paper glued  
 Stenciled

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

Name  
**Adrian Krygsman**

Title  
 Manager, Registration

Telephone No. (Include Area  
 Code) 201-207-6884

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

6. Date Application  
 Received  
**(Stamped)**

2. Signature

*Adrian Krygsman*

3. Title

**Manager, Registration**

4. Typed Name

**Adrian Krygsman**

5. Date

**8/19/04**

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# Bayer Environmental Science



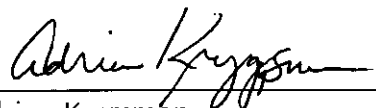
**NOTIFICATION**

SEP 10 2004

Notification of Label Revision per PR Notice 98-10:

Premise 0.5SC Insecticide  
EPA Reg. No. 432-1362

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

  
\_\_\_\_\_  
Adrian Krygsman  
Manager, Registration

8/19/04  
Date

Bayer Environmental Science

95 Chestnut Ridge Road  
Montvale, NJ 07645  
Tel. (201) 307-9700  
Fax (201) 307-3438

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NOTIFICATION

SEP 10 2004



# PREMISE® 0.5 SC

## INSECTICIDE

## Specimen Label

- \* For use by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product.
- \* For prevention or control of subterranean termites, drywood termites, dampwood termites, carpenter ants, and other wood-infesting insects.
- \* Also for use in control or suppression of important perimeter pests, such as ant species.

### ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine . . . . . 5.65%

INERT INGREDIENTS: . . . . . 94.35%

Total: . . . . . 100.00%

Contains 0.5 pounds of imidacloprid per gallon.  
Shake well before using.

EPA Reg. No. 432-1362

EPA Est. No.

**STOP - Read the label before use.**

**Keep out of reach of children.**

### CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

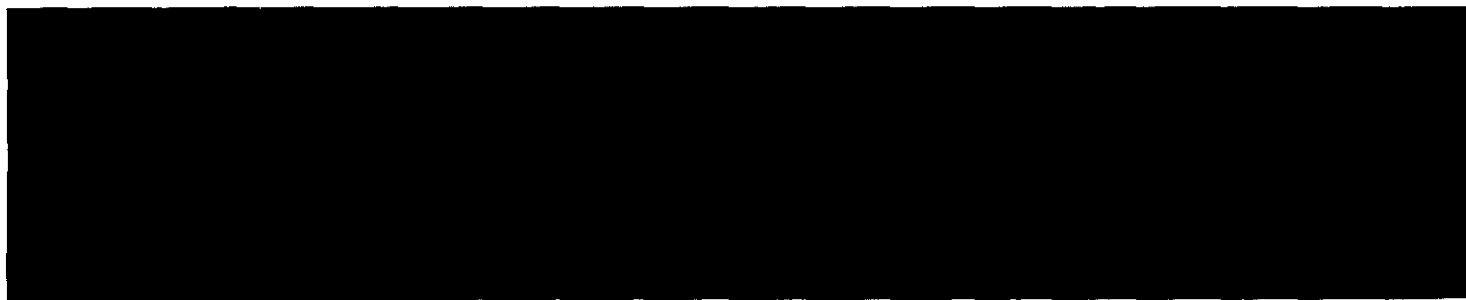
**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

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.

NET CONTENTS:

**BACKED  
by BAYER.**



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**Personal Protective Equipment**

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and water-proof gloves. After the product is diluted in accordance with label directions for use, shirt, pants, socks, shoes and water-proof gloves are sufficient. In addition: all pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>Note To Physician:</b> No specific antidote is available. Treat the patient symptomatically.</p>	

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label. Extreme care must be taken to avoid runoff. Apply only to soil or other fill substrate that will accept the solution at the specified rate. Do not treat soil that is water-saturated or frozen or in any conditions where run-off or movement from the treatment area (site) is likely to occur

**DIRECTIONS FOR USE**

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

Structures that contain wells or cisterns within the foundation of the structure can only be treated using the treated backfill method described in the treatment around wells and cisterns section of this label. Consult state and local specifications for recommended distances of wells from treated area, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

**Do not formulate this product into other end-use products.**

**MIXING:** Refer to Mixing Table for proper amount of PREMISE 0.5 SC Insecticide to be used.

Mix the termiticide use dilution in the following manner: Fill tank 1/4 to 1/3 full. Start pump to begin bypass agitation and place end of treating

tool in tank to allow circulation through hose. Add appropriate amount of PREMISE 0.5 SC. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

GALLONS WATER		0.05%	0.1%
100	PLUS	110.0 fl oz	220.0 fl oz
50		55.0 fl oz	110.0 fl oz
25		27.5 fl oz	55.0 fl oz
1		1.1 fl oz	2.2 fl oz

INJECTOR VOLUME (fl oz/gal)	CONCENTRATION (%)
1.10	0.05
2.20	0.10

**IN-LINE-INJECTION:** For the desired application rate, use the proportional injector mixing table to determine the amount of PREMISE 0.5 SC insecticide for a given injection volume of finished emulsion.

**CONVERSION KEY:** 128 fl oz = 1 gal, 16 fl oz = 1 pint, 8 pints = 1 gal, 1 fl oz = 29.5 mL

**APPLICATION VOLUME**

It is recommended that application volumes described in the PREMISE 0.5 SC insecticide "DIRECTIONS FOR USE" be used whenever possible. However, where soil conditions will not accept application of 4 gallons of PREMISE 0.5 SC Insecticide per 10 linear feet, twice the PREMISE concentration may be applied in 2 gallons of solution per 10 linear feet. For example, if 0.05% is the correct use rate to be applied in 4 gallons of water, then 2 gallons of 0.1% dilution may be used per 10 linear feet to deliver an equivalent amount of PREMISE per unit of soil.

**CONTROL - GENERAL**

Treatment standards for subterranean termite control may vary due to regulations, treatment procedures, soil types, construction practices and other factors. The purpose of chemical soil treatment for termite control is to establish a continuous chemical treated zone (horizontal and/or vertical as needed) between the wood and other cellulose material in the structure and the termite colonies in the soil. Follow all federal, state, and local regulations and treatment standards for protection of a structure from termites. In some instances where an aerial or above ground colony is established, supplemental treatments to control the termites, landscape modifications, and/or structural repairs may be needed to deprive termites of a moisture source. All treatment directions contained in this label may not be necessary to provide adequate protection against termites. Use a 0.05% to 0.1% dilution based on local recommendations. Generally a 0.05% dilution is used for typical control situations. Where severe or persistent infestations occur a 0.1% dilution may be used.

**PRE-CONSTRUCTION TREATMENT**

Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to installation of the finished grade.

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.

**CONCRETE SLAB-ON-GROUND OR BASEMENTS:** Apply an overall treatment to the entire surface of soil or other substrate to be covered by the slab including areas to be under carports, porches, basement floor and entrance platforms. Apply at the rate of 1 gallon of solution to adequately cover 10 square feet. If fill under slab is gravel or other coarse aggregate, apply at the rate of 1.5 gallons of solution to accurately and uniformly cover 10 square feet. In addition, apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet per foot of depth to provide a uniform treated zone in soil at critical areas such as

along the inside of foundation walls, and around plumbing, bath traps, utility services, and other features that will penetrate the slab.

After completion of grading, make an application by trenching or trenching and rodding around the slab or foundation perimeter. Rodding may be done from the bottom of a shallow trench. When rodding, rod holes should be spaced in a manner that will allow for a continuous chemical treated zone, not to exceed 12 inches, to be deposited along the treated area. Rod holes should not extend below the footing. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet, per foot of depth to provide a uniform treated zone. When trenching, the trench along the outside foundation should be about 6 inches in width and 6 inches in depth. Use a low pressure spray (not to exceed 25 PSI at the treatment tool when the valve is open) to treat soil which will be placed in the trench after rodding. Mix the spray solution with soil as it is being placed in the trench. When treating voids in hollow masonry units, use 2 gallons of solution per 10 linear feet of wall. Apply solution so it will reach the footing by injecting into the lower areas of the wall, just above the floor or footing.

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.

Rodding in trench followed by flooding of trench and treatment of backfill may provide a better opportunity to achieve a continuous chemical treated zone than using soil rodding alone to establish a vertical termiticide treated zone.

**CRAWL SPACES:** Application should be made by trenching and/or rodding downward along the inside and outside of foundation walls, around piers, interior supports in contact with the soil, plumbing, and utility services. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet, per foot of depth to provide a uniform treated zone. Rodding may be done from the bottom of a shallow trench to top of the footing or a minimum of 4 feet. When rodding, rod holes should be spaced in a manner that will allow for a continuous chemical treated zone to be deposited along the treated area. Rod holes should not extend below the footing. When trenching, the trench should be about 6 inches wide and 6 inches deep. Use a low pressure spray to treat soil which will be placed in the trench, mixing the spray solution with soil as it is being placed in the trench.

**HOLLOW BLOCK FOUNDATIONS OR VOIDS:** Hollow block foundations or voids in masonry resting on the footing may be treated to provide a continuous chemical treated zone in the voids at the footing. Apply 2 gallons of solution per 10 linear feet to the lower part of the void so that it reaches the top of the footing or soil.

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 (refer to Precautionary Statements).

Do not allow people or pets to contact or to reoccupy the contaminated areas of the structure until the clean up is completed.

#### POST-CONSTRUCTION TREATMENT

**CONCRETE SLAB-ON-GROUND:** To apply a treatment under the slab, including attached porches, carports, entrance platforms, garages and similar slab structures, it may be necessary to drill through the slab or exterior foundation. Drill holes should be spaced in a manner that will

allow for application of a continuous chemical treated zone. Treat all existing cracks and cold, construction or expansion joints. Also, treat around bath traps, plumbing and utility services which penetrate the slab. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet per foot of depth to provide a uniform treated zone. DO NOT MAKE TREATMENT UNTIL LOCATION OF HEAT OR AIR CONDITIONING DUCTS AND VENTS ARE KNOWN AND IDENTIFIED. USE EXTREME CAUTION TO AVOID CONTAMINATION OF DUCTS AND VENTS. Plug and fill all drilled holes in commonly occupied areas with a suitable sealant. Plugs must be of non-cellulose material or covered by an impervious, non-cellulose material.

An application should be made by trenching or trenching and rodding around the outside of the foundation wall. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet per foot of depth to provide a uniform treated zone. When trenching, the trench along the outside foundation should be about 6 inches wide and 6 inches deep. Use a low pressure spray to treat soil as it is being placed in the trench.

Rodding can be done from the bottom of a shallow trench. When rodding, rod holes should be spaced in a manner that will allow for a continuous chemical treated zone, not to exceed 12 inches, to be deposited along the treated area. Rod hole depth should not extend below the footing.

**BATH TRAPS:** Exposed soil or soil covered with tar or a similar type sealant beneath and around plumbing and/or drain pipe entry areas should be treated with 3 gallons of solution per square foot. An access door or inspection vent should be cut and installed, if not already present. After inspection and removal of any wood or cellulose debris, the soil can be treated by rodding or drenching the soil.

**CRAWL SPACES:** When there is insufficient clearance between floor joists and ground surfaces to allow applicator access, excavate, if possible, and treat according to crawl spaces (refer to Pre-Construction Treatment). If unable to excavate, crawl space soil and wood treatment may be used to prevent surface access by termites. Apply 1 gallon of solution per 10 square feet to provide a uniform chemical treated zone. Use a very coarse spray at a pressure not exceeding 25 PSI at the treatment tool when the valve is open.

Where a crawl space cannot be reached with the application wand, use extension wands or other suitable equipment to apply a coarse spray on the soil, wood and structural members contacting the soil at the above rates. Do not apply to inaccessible crawl space areas using pressures greater than 25 PSI at the treatment tool when the valve is open. Treatment may also be made by drilling through the foundation wall or through the floor above and treating the soil perimeter at a rate of 1 gallon of solution 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.

To prevent subterranean termites from constructing mudtubes between soil and crawl space wood members above, an overall soil treatment of this product may be applied. Remove all cellulose debris before application. Apply 1 gallon of solution per 10 square feet to provide a uniform chemical treated zone.

**SHALLOW FOUNDATIONS:** For shallow foundations, one foot or less in depth, dig a narrow trench approximately 6 inches wide and deep along the outside and inside of the foundation walls, being careful not to dig below the bottom of the footings. For foundations with exposed footings, dig a trench alongside the footing taking care not to undermine the footing. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet to the top of footer to provide a uniform treated zone. The dilution should be applied to the trench and mixed with the soil as it is placed in the trench.

**BASEMENTS - OUTSIDE PERIMETER:** Along the outside of the exterior walls, an application must be made by trenching or rodding within the trench. Rodding depth should be to the top of the footer, or to a minimum of 4 feet or according to state or local regulations. When rodding through a trench, dig a narrow trench about 6 inches wide and 6

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inches deep. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet, per foot of depth to provide a uniform treated zone by rodding through the trench. Use a low pressure spray to treat soil which will be placed into the trench after rodding. Mix spray solution with the soil as it is being placed in the trench.

**BASEMENTS - INSIDE PERIMETER:** If necessary, treat by drilling along the perimeter of the interior walls. Applications also may be necessary around sewer pipes, floor drains, conduits, expansion joints or any cracks or holes in the basement floor. Apply 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet to provide a uniform treated zone.

Drill holes should be spaced in a manner that will allow for application of a continuous chemical treated zone. Plug and fill all drill holes in commonly occupied areas of the building with a suitable sealant. Plugs must be of non-cellulose material or covered by an impervious, non-cellulose material.

**HOLLOW BLOCK FOUNDATION OR VOIDS:** Hollow block foundations or voids in masonry resting on the footing may be treated to provide a continuous chemical treated zone in the voids at the footing. Apply 2 gallons of solution per 10 linear feet to the lower part of the void so that it reaches the top of the footing or soil. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

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 (refer to Precautionary Statements). Do not allow people or pets to contact or to reoccupy the contaminated areas of the structure until the clean up is completed.

**PLENUMS:** For plenum-type structures which use a sealed underfloor space to circulate heated and/or cooled air throughout the structure, apply the dilution at the rate of 4 gallons of solution (see APPLICATION VOLUME) per 10 linear feet, per foot of depth of soil to provide a uniform treated zone adjacent to both sides of foundation walls, supporting piers, plumbing and conduits. The soil should be treated by trenching to a depth of 6 inches or trenching and rodding (where conditions permit) or to the top of the footing. When conditions will not permit trenching or rodding, a surface application adjacent to interior foundation walls may be made, but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation walls, piers or pipes. The surface application will be made at a rate of 1.5 gallons of solution per 10 square feet as a very coarse spray under low pressure (not to exceed 25 PSI when measured at the treating tool when valve is on).

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

**TREATMENT AROUND WELLS OR CISTERNS:** Do not contaminate wells or cisterns.

**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 solution per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. Mix thoroughly into the soil taking care to contain the liquid

and prevent runoff or spillage.

c) After the treated soil has absorbed the solution, 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 Pests" 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.

**APPLICATION IN CONJUNCTION WITH THE USE OF OUTPOST TBR:**

As a part of the integrated pest management (IPM) program for subterranean termite control, PREMISE 0.5 SC may be applied 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 0.05% as a spot application or complete treated zone. Application may be made as described in the Post-Construction Treatment section of this label.

**FOAM APPLICATIONS**

Construction practices, soil subsidence and other factors may create situations in which a continuous chemical treated zone cannot be achieved using conventional treatment alone. In situations where necessary, conventional application methods can be supplemented through use of foam generating equipment, or similar devices can be used to provide a continuous treated zone.

The objective with termiticide foam, as with termiticide solution, is to deliver an adequate rate of termiticide active ingredient to soil and structural joints in order to create a complete treated zone to control termites and protect structures from termite damage. Foaming is a useful and versatile tool, but should be used strategically when structural and soil features dictate that foam will achieve or improve the desired termiticide delivery. Some key benefits to foam are: delivery of the active ingredient without the volume of fluid that could damage structures in certain situations, movement of foam over surfaces carrying termiticide to areas where solution may not reach or be deflected, and stackable characteristics to foam permitting delivery of termiticide to multi-faceted surfaces and voids. Termiticide solution will remain the primary tool for delivery of termiticide active ingredient to provide structural protection and pest control operators will have to make some decisions on when best to use termiticide foam.

Foam application may be made alone or in combination with conventional application methods, provided that the labeled amount of active ingredient per unit area is used.

**Foam Application Use Directions:** Mix solution of PREMISE 0.5 SC Insecticide with manufacturer's recommended volume of foaming agent (see table for foaming recommendations). Apply a sufficient volume of PREMISE 0.5 SC Insecticide foam alone or in combination with liquid solution to provide a continuous treated zone at the recommended rate for specific application sites.

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MIXING TABLE FOR PREMISE 0.5 SC INSECTICIDE FOAM				
PREMISE 0.5* (fl oz)	GALLONS OF WATER	FOAM EXPANSION RATIO	FINISHED FOAM	
			(gallons)	(aif%)
27.5	1	25:1	25	0.05
	2.5	10:1		
	5	5:1		
55.0	1	50:1	50	
	2.5	20:1		
	5	10:1		

\*Add the manufacturer's recommended quantity of foam agent to the PREMISE 0.5 SC Insecticide solution.

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

**CONTROL OF WOOD INFESTING PESTS**

For control of **above ground termites and carpenter ants** in localized areas, apply a 0.05 to 0.1% solution or sufficient volume of PREMISE 0.5 SC Insecticide foam to voids and galleries in damaged wood, and in spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable. Applications may be made to inaccessible areas by drilling, and then injecting the suspension or foam with a suitable directional injector into the damaged wood or wall voids. Termite carton nests in building voids may be injected with a 0.05 to 0.1% suspension or foam. 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. Application to attics, crawl spaces, unfinished basements, or man-made voids may be made with a coarse fan spray of 0.05 to 0.1% solution or foam to control exposed worker and winged reproductive forms of termites or carpenter ants. This type of application is intended to be a supplemental treatment for control of above ground subterranean termites and carpenter ants.

Use a 0.05% to 0.1% solution to control existing infestations of or to prevent infestation by termites or carpenter ants in trees, utility poles, fencing and decking materials, landscape timbers and similar non-structural wood-to-soil contacts. If possible, locate the interior infested cavity and inject a 0.05 to 0.1% solution or sufficient volume of PREMISE 0.5 SC Insecticide foam using an appropriate treatment tool with a splashback guard. These non-structural wood-to-soil contacts may also be treated by applying a solution\* to the soil as a spot application or continuous treated zone applied as a drench or by rodding around the base of the point(s) of soil contact(s). Rod holes should be placed approximately 3 inches away from the soil contact point(s) and spaced no more than 12 inches along the perimeter of the soil contact(s). For small poles or posts (< 6 inches in diameter), apply 1 gallon per foot of depth. For larger constructions, apply 4 gallons per 10 linear feet per foot of depth. Retreat as needed to maintain protection. Termite carton nests in trees may be injected with a 0.05 to 0.1% solution or sufficient volume of foam using a pointed injection tool. Multiple injection points to varying depths may be necessary. Removal of carton material from trees is desirable but may not be necessary when foam application is used. In some instances, a perimeter application of a 0.05% to 0.1% solution applied to soil around the root flare of the tree may be necessary to prevent reinfestation by termites in the soil. For small trees (< 6 inches in diameter), apply 1 gallon of solution. For larger trees, apply 4 gallons per 10 linear feet (measured as the circumference at the root flare).

For protection of **firewood or other wood products** stored in contact with soil from carpenter ants and termites, treat soil prior to stacking with a 0.05 to 0.1% solution at 1 gallon per 10 square feet to prevent infestation. Curative application to the soil around firewood or other wood products stored in contact with soil may be made as described

for non-structural wood-to-soil contacts (above).

**Drywood termites and wood-infesting beetles or borers** (such as, but not limited to, powder post beetles, anobiid or deathwatch beetles, false powder post beetles, old house borers, wharf borers, or ambrosia or bark beetles). **Galleries and structure voids** can be treated with sprays, mists, or foams of a 0.05% to 0.1% PREMISE solution. Locate galleries by using visual signs (frass or pellets, blistered wood, emergence or clean out holes), the presence of live insects, mechanical sounding techniques, or listening devices (e.g., stethoscopes, acoustic emission detectors). Penetrate the gallery system by drilling holes to receive the injector tip or treatment tool. Distribute drill holes to adequately cover the gallery system. [NOTE: Avoid drilling where electrical wiring, plumbing lines, etc. are located.] Apply PREMISE solutions as a low pressure (about 20 psi) spray or by misting or, where appropriate, by foaming. It is not necessary to treat to the point where runoff is detected from adjacent holes. [NOTE: Do not apply where electrical shock hazards exist.] Drill holes should be sealed after treatment. Also, **wood surfaces** can be sprayed or misted with a 0.05% to 0.1% solution or, where appropriate, use a sufficient volume of foam. For inaccessible surfaces, drill and treat the interior of structural voids. Surfaces treated may include exposed wooden surfaces in crawlspaces, basements, or attics, wooden exterior surfaces such as decks, fencing, or siding, structural voids, channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and foundations. Apply by brushing or as a coarse, low pressure (about 20 psi) spray to the wood surface; apply sufficient volume to cover the surface to the point of wetness, but avoid applying to the point of runoff. When spraying overhead in living areas, cover surfaces below the treated area with plastic sheeting or similar material. Avoid contact with treated surfaces until spray deposits have dried. Retreat as needed to maintain protection.

Localized treatment for **carpenter bees**: Apply a 0.05% to 0.1% solution as a spray or mist, or sufficient volume of foam, directly into gallery entrance holes. Following treatment, entrance holes may be plugged with small pieces of steel wool or similar material.

**RETREATMENT**

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the treated zone due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide treated zone 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 treated zone. Retreatment may be made as either a spot or complete treatment.

When a structure is not known to be reinfested and the treated zone is not disturbed, but where the structure was last treated five or more years ago, retreatment may be performed if, in the judgement of the applicator, it is necessary to ensure adequate protection of the structure. In determining the timing of any retreatment, the applicator should consider efficacy and/or degradation data and/or site-specific conditions and previous experience that indicate a vulnerability of the

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structure to termite attack.

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

**PERIMETER PEST CONTROL**

**ANTS**

To control or suppress ants in houses and other structures, apply a 0.025% to 0.10% solution as a general surface, spot, crack and crevice or wall void application. Apply to surfaces on buildings, porches, patios, and other structures, around doors and windows, eaves and attic vents, utility entry points, soffit areas, and other places where these pests enter the structure, or where they have been seen or found. Applications may be made by spraying into cracks and crevices, or by spraying, misting or foaming into voids where these ants or their nests are present. Apply the volume of spray, mist or foam sufficient to cover the area, but do not allow excessive dripping or run-off to occur from vertical or overhead surfaces. Repeat treatments when necessary to maintain control.

**Perimeter treatments:** To control or suppress ant infestations outside structures, treat soil and turf or other substrates adjacent to the structure's foundation where these pests have been seen or found and may find food or harborage. Apply to flower, shrub or ornamental plant beds adjacent to the structure where ants may be found foraging. Apply 1.5 fl. oz. to 12.0 fl. oz. of PREMISE 0.5 SC per 1,000 sq. ft. Apply in sufficient water to cover the foliage and soil area being treated (see Mixing Directions below).

**Tunneling ants:** To control ants tunneling in soil, apply 1.5 fl. oz. to 12.0 fl. oz. of PREMISE 0.5 SC per 1,000 sq. ft. by drenching or soil injection at intervals to establish a continuous treated zone. Apply in sufficient volume of water to thoroughly wet the soil to the desired depth (see Mixing Directions below). Establish a uniform treated zone at the edge of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

**Mulch beds:** To control or suppress ants and termites\* nesting and/or foraging within mulch bedding in landscape areas, apply 1.5 fl. oz. to 12.0 fl. oz. of PREMISE 0.5 SC per 1,000 sq. ft. of mulched surface area. Make application by spraying or injecting in a volume of water sufficient to thoroughly wet mulch through to the soil surface (see Mixing Directions below). For areas with heavy mulch cover (greater than 3 inches in depth) it is recommended that mulch be raked back from the soil before treatment. Retreat if pest activity is detected in mulch during annual inspections.

\* The treatment of mulch beds with PREMISE 0.5 SC is not a substitute for mechanical alteration, soil and foundation treatments, but is intended merely as a supplemental procedure in annual termite management programs. Use of PREMISE 0.5 SC in such programs is intended to control subterranean termites by direct treatment and suppress foraging by subterranean termites in mulch beds.

**Note:** Where severe pest pressures may exist and when rapid knock-down or exclusion at pest entry points is desired, supplement treatments using PREMISE 0.5 SC with targeted applications of a pyrethroid, such as TEMPO SC ULTRA to doors and windows, utility entry points, and other places where these pests enter the structure. Read and follow all label directions for use for this companion product.

**Mixing Directions:** Optimal spray volumes may vary depending on the substrate that is being treated. Use this table to adjust spray volumes

for variable product dilutions.

To convert to milliliters, multiply the number of fluid ounces by 29.6 or divide the number of fluid ounces by 0.0338.

**Aerial nests:** If ant nest site(s) are located in tree hollows or non-structural wooden constructions (e.g., posts, fences, decks), treat the interior cavity containing the nest site by injecting a 0.05% to 0.1% solution as a spray or mist, or sufficient volume of foam, using an appropriate treatment tool with a splashback guard.

**Ant mounds:** To control mound-building ants, apply 1.0 to 2.0-Liter of a 0.05% to 0.10% dilution of PREMISE 0.5 SC and thoroughly drench or inject the entire mound area. Treat all areas of the mound showing activity to provide contact control of adult ants. When using injection methods, for best results treatment should be made to the bottom of the active mound. Apply dilution or sufficient volume of foam throughout the mound using a downward and upward motion of the injector tool. Multiple injection sites may be needed to ensure complete distribution of the dilution throughout the active mound.

Do not use PREMISE 0.5 SC to treat ant mounds in any food crop production area, pasture or area where food crop production may occur.

**GENERAL PRECAUTIONS FOR APPLICATIONS**

After treatment, plug and fill all holes drilled in concrete slab areas of the building with a suitable sealant.

Do not apply solution 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 plant for the purpose of consumption, edible plants into the treated areas of soil.

Avoid contamination of public and private water supplies.

Use anti-backflow equipment or an air gap on filling hoses.

Consult State, Federal, or local authorities for information regarding the approved treatment practices for areas in close proximity to potable water supplies.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticide below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577, or contact Chemtrec at 800-424-9300.

PREMISE 0.5 SC (fl oz) to mix with 5 gallons* of water	Concentration (%) of the finished spray solution	Gallons of finished spray solution to apply to achieve these rates of PREMISE 0.5 SC per 1,000 sq ft			
		1.5 fl. oz.	3.0 fl. oz.	6.0 fl. oz.	12.0 fl. oz.
1.35	0.0125%	5.5	11.1	22.2	44.4
2.7	0.025%	2.8	5.5	11.1	22.2
5.4	0.05%	1.4	2.8	5.5	11.1
10.8	0.10%	0.7	1.4	2.8	5.5

\* Reference to 5 gallons of water is only an example, to make different volumes of dilution, adjust the amount of concentrate proportionately.



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**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site (in the treatment area) or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Premise 0.5SC-SL-0903-Eng

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER ENVIRONMENTAL SCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

Premise® 0.5 SC Insecticide is specially formulated and sold by Bayer Environmental Science USA LP for the control of insects according to the directions on this label. Bayer is the owner of United States patent rights to the active ingredient imidacloprid, formulations containing the active ingredient and methods of use, particularly U.S. Patent No. 4,742,060, 6,323,224, B1. The purchase price of Premise® 0.5 SC Insecticide includes a royalty whereby the purchaser acquires a prepaid license under which purchase agrees to employ the purchased quantity of Premise® 0.5 SC Insecticide only for the above-specified uses under Bayer's United States patent rights and to provide notice of the terms and conditions of this license to any subsequent purchaser. Uses of Premise® 0.5 SC Insecticide other than those specified on this label are not licensed through the purchase of this product and the use of this product for other purposes may violate this license and patent rights of Bayer.

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Bayer Environmental Science  
A Business Group of Bayer CropScience LP

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NOTES

# Bayer Environmental Science



August 19, 2004

VIA FEDEX

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
1801 South Bell Street  
Arlington, VA. 22202-4501

Attention: Mr. Dan Kenny  
PM Team 4A

RE: Premise 0.5SC Insecticide  
EPA Reg. No. 432-1362  
Label Notification

Dear Mr. Kenny:

Bayer Environmental Science is submitting the label notification for the product referenced above. Specifically this notification addresses the addition of patent language which is presented on the last page of the label. The following documents are enclosed for this submission:

1. EPA Form 8570-1, Application for Pesticide (OPP Identifier No. 298772)
2. Five (5) copies of revised product labeling. One copy has the Revision highlighted.
3. Notification Certification per PR Notice 98-10

Please contact me should there be additional questions regarding this submission.

Sincerely,

  
Adrian Krygsman  
Manager, Registration

Cc: J. Conti  
S. Burt  
C. Cole

Bayer Environmental Science

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Montvale, NJ 07645  
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