

75801-4

05-11-2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

75801-4

Date of Issuance:

MAY 11 2007

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Timber Treat Termiticide,
Insecticide and Fungicide
Concentrate

Timber Treat Termiticide, Insecticide and Fungicide Concentrate

Turf Science Laboratories, Inc.

D/B/A Turf Labs

2121 Hoover Avenue

National City, VA 91950

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

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

(continued on page 2)

Signature of Approving Official:

Refer to Page 7 for signature
Richard J. Gebken, Product Manager (10)
Insecticide Branch, Registration Division (7505P)

Date:

MAY 11 2007

EPA Form 8570-6

2. Make the following change to the label:

- 2.1. Change the product registration number to "EPA Reg. No. 75801-4"
 2.2. All instances of the name "Timber Treat" must be replaced with the correct product name "Timber Treat Termiticide, Insecticide and Fungicide Concentrate"
 2.3. Revise the label according to the following instructions:

Note: Text marked with a ~~strikeout~~ should be removed, and text marked with *italics* should be inserted.

2.3.1. Page 1 of label:

- 2.3.1.1. For the prevention and control of: Termites, Carpenter Ants, Fungi, (including Rot) and Algae (~~both Interior and Exterior Use~~).

2.3.2. Page 2 of label:

- 2.3.2.1. Within the Ingredient Statement, remove " $\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$ ". You may foot note the active ingredient Disodium octaborate tetrahydrate with the CAS Number "(CAS No. 12280-03-4)"

2.3.3. Page 3 of label:

- 2.3.3.1. Replace the text within the **Hazards to Humans and Domestic Animals** section as follows:

"Harmful if inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of food or feed."

- 2.3.3.2. Directly below the section entitled "Personal Protective Equipment (PPE) insert the following new subsections :

"User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry."

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet;
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing;
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

- 2.3.3.3. Within the Directions for Use, Delete the respective paragraph as follows:

~~Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where food may be prepared or held. In the home, all food processing surfaces and utensils should must be covered during treatment or thoroughly washed before use. Exposed food should must be covered or removed.~~— An appropriate subsection and text shall supersede these statements as described in 2.2.3.5 below.

- 2.3.3.4. Move the statement "Do not contaminate wells or cisterns" to the section identified in 2.2.3.5 below.

2.3.3.5. Directly below the statement "It is a violation of Federal law to use this product in a manner inconsistent with its labeling." Insert a new subsection as follows:

"Use Restrictions

Do not use in edible product areas of food processing plants or on countertops and other surfaces where food is prepared. Do not use in serving areas where food is exposed. Do not contaminate feed, water or food. Do not enter or allow others to enter or occupy treated areas until spray has been absorbed into the wood or dried. Treated areas must not be occupied during application. Do not contaminate wells or cisterns."

2.3.3.6. Directly below the new Use Restrictions section, insert an additional new subsection as follows:

"Phytotoxicity

This product may be phytotoxic to plants. When treating around the exterior of structures cover and protect shrubbery and plants that may be potentially exposed to this product during application."

2.3.4. Page 4 of label:

2.3.4.1. Revise the following paragraph:

Timber Treat Termiticide, Insecticide and Fungicide Concentrate solutions mixed at ratios of 1:1, 2:1 or 3:1 should be used within 24 hours of mixing. ~~A mixing solution of 5:1 can be used within 30 days.~~ Do not allow solution to remain in mixing tank or under pressure overnight. All mixing equipment should be cleaned or flushed with water after use.

2.3.4.2. Delete the following statement:

~~For maximum performance against mold or insects, Timber Treat may be tank mixed with an approved non-residual pesticide.¹~~

2.3.4.3. Within the Dilution Ratio Tables remove the following row²:

| | | |
|-------------|-----|---|
| All Insects | 1:1 | Apply by spray, injection, brush or roller for use as a remedial control agent. |
|-------------|-----|---|

2.3.4.4. Within the Dilution Ratio Tables, remove "n IPVM approved"

| | | |
|------------------------------------|-----------------|--|
| Drywood Termites or Carpenter Ants | 1:1, 2:1 or 5:1 | Apply 1:1 ratio for all remedial treatments. Apply 2:1 by foam or if using an IPVM-approved misting machine. Apply 5:1 ratio for preventative treatment. |
|------------------------------------|-----------------|--|

2.3.4.5. Within the Dilution Ratio Tables, remove the words "All Other Beetle Species" from the first cell of the row.²

| | | |
|--|------------|---|
| All Other Beetle Species including Old House Borer | 1:1 or 5:1 | Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4". Apply 5:1 ratio for preventative treatment or for wood less than 4" in thickness. |
|--|------------|---|

2.3.5. Page 5 of Label:

2.3.5.1. Directly under the subheader "General Information" insert the following new subsection:

"Timber Treat Termiticide, Insecticide and Fungicide Concentrate is not intended as a substitute for mechanical alteration, soil treatment or foundation treatment. **Timber Treat Termiticide, Insecticide and Fungicide Concentrate** is not intended for application to soil. In areas where a soil treatment/barrier termiticide treatment is

¹ For guidance on Tank Mixing instructions, refer to PR Notice 82-1.

² The term "All Insects" and "All Beetles" cannot be used. Please refer to the Label Review Manual, Chapter 12, III. C.

required, **Timber Treat Termiticide, Insecticide and Fungicide Concentrate** may be applied as a supplemental pretreatment to protect wood from subterranean termites that may penetrate chemical gaps occurring in termiticide-treated soil. When active infestations exist, get a professional inspection.”

2.3.5.2. Modify the following section

“~~Timber Treat Termiticide, Insecticide and Fungicide Concentrate will eliminate infestations and~~ provide lasting protection against the following insects:

- Ambrosia Beetles (Playpodidae, Scolytidae)
- Anobiid Beetles (Anobiidae)
- Brown Rot (including Dry Rot) White Rot, Wood Decay and ~~Other Listed~~³ Fungi.
- Carpenter Ants (Camponotus)
- Dampwood Termites (Zootennopsis, Neotennes)
- Drywood Termites (Kaloterme, Incisitermes)
- Formosan Termites (Coptotermes)
- Old House Borers & Longhorn Beetles (Cerambycidae, Hylotrupes)
- Powderpost Beetles (Lyctidae, Bostrichidae)
- Subterranean Termites (Reticulitermes, Heterotermes)”

2.3.6. Page 6 of label:

2.3.6.1. Delete the following paragraph, as the language was superseded by the text identified in 2.2.5.1

~~Timber Treat is not a soil termiticide. Timber Treat may be applied as an additional treatment where a soil treatment termiticide has been applied and/or termite bait system installed. Timber Treat can be used as an additional treatment to protect wood from subterranean termites that may have penetrated from the chemical gaps occurring within the termiticide soil or have bypassed the bait monitor systems and entered the structure, entirely bypassing the soil treatment.~~

2.3.6.2. Modify the following paragraph as follows:

When used as a remedial treatment, Timber Treat Termiticide, Insecticide and Fungicide Concentrate will eliminate and prevent infestation of Formosan, native subterranean termites, wood boring beetles, carpenter ants and decay fungi. To use for long-term residual control, Timber Treat Termiticide, Insecticide and Fungicide Concentrate can be used as a supplement or substitute to fumigation. ~~The inorganic salt contained in Timber Treat will not cause decomposition or vaporization from the wood. Timber Treat is can be used in areas where contamination is a concern, such as nearby wells, cisterns, etc.~~⁴

2.3.6.3. Modify the following paragraph as follows:

The application of Timber Treat Termiticide, Insecticide and Fungicide Concentrate to wood surfaces in new construction or inside wall voids in existing structures helps prevent ~~pest infestations, including~~ cockroaches *that may come in contact with treated surfaces*. One gallon of Timber Treat Termiticide, Insecticide and Fungicide Concentrate will cover 400 square feet of treated surface area.

2.3.7. Page 7 of label:

2.3.7.1. Revise the following paragraph:

Buildings on Slabs

Timber Treat Termiticide, Insecticide and Fungicide Concentrate should be applied into wall voids by locating the studs a small hole through the wall covering to gain access to

³ The specific pests must be identified. Refer to the Label Review Manual Chapter 12, III. C.
⁴ These statements are implied safety claims, and not in agreement with 40 CFR 156.10.

the infested area. ~~An IPVM-approved~~ misting or foaming machine may also be used - see foam application below. Holes should be drilled 18-24 inches apart and to the side of each stud. Inject 1/3 fluid ounce of Timber Treat Termiticide, Insecticide and Fungicide Concentrate solution into each hole. Drill a minimum of one hole per stud bay near the floor to treat the base plate in each void. To ensure the entire infested area is treated, apply solution to the entire wall areas and not only to single stud bays.

2.3.7.2. Within the subsection entitled "Wood Flooring" revise the following paragraph:
The application of Timber Treat Termiticide, Insecticide and Fungicide Concentrate may cause the grain of the wood to raise and light sanding may be necessary prior to applying a new finish. While Timber Treat Termiticide, Insecticide and Fungicide Concentrate is ~~safe and~~ adaptable by most wood flooring, test an inconspicuous area with the treatment and verify finish prior to coating the entire floor. If a residue remains on the flooring after 72 hours of drying time, clean and rinse the affected area with a mop or sponge. Floor must dry completely before applying light sanding and/or final finish.

2.3.7.3. Within the subsection entitled "Non-Accessible Areas" revise the following paragraph:
Timber Treat Termiticide, Insecticide and Fungicide Concentrate may be applied using a spray or ~~IPVM-approved~~ misting machine for treating voids, wall studs and wood members not accessible by conventional application methods. Apply spray or mist into voids and channels of infested wood or through small holes drilled into the walls and baseboard areas. There should be at least one drilled hole between each wall stud and the holes should not be spaced more than 24" apart within the treated area. Apply enough spray or mist until completely wet. Insulation may conflict with the application and may be moved prior to treatment.

2.3.8. Page 8 of label:
2.3.8.1. Within the subsection entitled Crawl Space, Basement and Slab, revise the following paragraph:

Timber Treat Termiticide, Insecticide and Fungicide Concentrate may be applied as a supplemental treatment to concrete, block or brick on basement foundations and the interior of crawl spaces to prevent shelter tubing by subterranean termites. For this application, apply a 1:1 ratio of Timber Treat Termiticide, Insecticide and Fungicide Concentrate. In crawl spaces and unfinished basements, apply Timber Treat Termiticide, Insecticide and Fungicide Concentrate to 24 inches up from the ground on the interior wall surfaces. In unfinished basements, Timber Treat Termiticide, Insecticide and Fungicide Concentrate may be applied up to 6 inches away from the foundation walls onto the horizontal surface of the bare slab in addition to the wall treatment. ~~Bath trap areas in slab construction may be treated by applying 8 ounces of a 1:1 ratio into the soil of dirt filled traps and by applying a 1:1 ratio in at least a 12 inch band covering all sides on the slab surface area out from the trap area.~~⁵ When treating plumbing penetrations or other termite access areas, apply a 1:1 ratio in at least a 12 inch band covering all sides of the slab surface area out from the penetration, and apply up to 24 inches on protruding utilities and adjacent wood.

2.3.9. Page 10 of label:
2.3.9.1. Within the subsection entitled "Buildings on Slabs" revise the following paragraph:
Apply Timber Treat Termiticide, Insecticide and Fungicide Concentrate at a 1:1 (one gallon water to one gallon solution) to all base plates, the bottom 24 inches of all studs, all exterior and interior walls and 2 to 8 inches of concrete surface from the plates. Apply

⁵ The company is reminded that this product IS NOT a soil applied termiticide product.

two coats of Timber Treat Termiticide, Insecticide and Fungicide Concentrate on structural wood where access is limited to one or two sides of wood members such as sills and plates on foundation walls or wrapped sheathing; wait 20-30 minutes before applying second coat. Apply a minimum 24 inch wide barrier of treatment to all structural wood in plumbing walls, ~~wood in bath traps~~ and structural wood adjacent to plumbing, electrical conduit and duct penetrations. Treat all slab surfaces at least one foot out from all bath trap penetrations and all plumbing penetrations at least 24 inches up from the slab using a 1:1 (one part water to one part solution) ratio. ~~Apply 8 to 16 ounces of the 1:1 Timber Treat mixed solution evenly to the dirt-filled bath traps.~~ Plumbing penetrations not associated with any structural wood may be sprayed up *from the non-soil surface* to 24 inches high and covering at least six inches of slab surface area with a 1:1 (one part water to one part solution) ratio.

2.3.10. Page 11 of label:

2.3.10.1. Delete the following section:⁶

~~**Wood with Ground Contact**~~

~~Wood in contact with the ground or soil has a limited lifespan, but protection may be lengthened by using a 40% disodium octaborate tetrahydrate or borate gel product. Timber Treat will need to be reapplied to wood in contact with the ground or soil.~~

2.3.11. Page 12 of label:

2.3.11.1. Within the section labeled as Control of Algae to Control of Algae to Cellulosic Building Components modify the text as follows:

Timber Treat Termiticide, Insecticide and Fungicide Concentrate may be applied for the prevention and remedial control of algae to cellulosic building components such as drywall and insulation in new construction or existing structures. All painted, sealed or stained coatings should be removed prior to treatment to surfaces. For drywall and insulation, Timber Treat Termiticide, Insecticide and Fungicide Concentrate should only be applied to the back paper side. If drywall has been installed and insulation is enclosed, ~~an IPVM approved~~ misting machine or applicator may be used to apply Timber Treat Termiticide, Insecticide and Fungicide Concentrate. One gallon of solution will cover 400 square feet.

2.3.12. Page 13 of label:

2.3.12.1. Timber Treat Termiticide, Insecticide and Fungicide Concentrate must modify the "CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY" section in accordance with the Agency's Agency's policy with regarding Warranties and Disclaimers which can be found at the following internet site: <http://www.epa.gov/pesticides/regulating/labels/warranty.pdf> Any resubmission of the label to the Agency should include one of the sample statements provided within the document entitled "Guidance on Warranty Statements dated October 17, 2006.

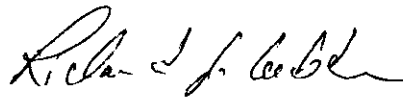
⁶ The label specifically states at the beginning that Timber Treat must be diluted when used , and these directions are identifying a 40% DOT or gel product. Is this another registered product, or are you recommending this product to be mixed as a gel or applied undiluted?

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3. Acceptable Storage Stability and Corrosion characteristics data must be provided to the Agency within 1 year of this stamped approved label.
4. Submit two copies of the revised final printed label for the record before the product is released for shipment.

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.



Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7505P)

Enclosure: Label stamped "Accepted with Comments"

075801-0004 d373984 s804237.doc

TIMBER TREAT™

Termite, Insecticide and Fungicide Concentrate

For the prevention and control of: Termites, Carpenter Ants, Fungi, (including Rot) and Algae (both Interior and Exterior Use).

For use in and around: Apartments, Farm Buildings, Garages, Homes, Hospitals, Hotels, Kennels, Motels, Museums, Public & Private Institutions, Schools, Stables, Trailers, Trucks, Warehouses and Non-Food Areas of Supermarkets, Restaurants and Food Processing Plants.

KEEP OUT OF REACH OF CHILDREN

CAUTION

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 11 2007
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
75801-4

| FIRST AID | |
|---|---|
| If Swallowed: | <ul style="list-style-type: none"> • Call a poison control center or doctor for immediate treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a Poison control center or doctor. • Do not give anything to an unconscious person. |
| If inhaled: | <ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |
| If on skin or clothing: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| If in eyes: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p> | |

SEE OTHER PANELS FOR PRECAUTIONARY STATEMENTS

Active Ingredient:

| | |
|--|--------|
| Disodium octaborate tetrahydrate..... | 40.0% |
| (Na ₂ B ₈ O ₁₃ · 4H ₂ O) | |
| Other Ingredients..... | 60.0% |
| Total..... | 100.0% |

This product contains 4.36 pounds disodium octaborate tetrahydrate per gallon.

EPA Reg. No. 75801-XXXX

EPA Est. No. 75801-CA-001

Read and understand the label before using Timber Treat. Before buying or using Timber Treat, read the Warranty and Disclaimer statements found on the last page of the label.

MADE IN U.S.A.

Manufactured by:

International Pest & Vegetation Management,
 A Division of Turf Science Laboratories, Inc.
 2121 Hoover Avenue
 National City, CA 91950
 (800) 964-4266



Net Contents: 1 Gallon (3.78 Liters)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, protective eyewear and chemical-resistant gloves. A ventilator or an exhaust system should be used when applying Timber Treat in confined spaces. If a ventilation or exhaust system is unavailable, the applicators should use a NIOSH-approved respirator with an organic-vapor removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with an N, R, P or HE pre-filter. Clean over-spray and spills with a damp cloth or absorb with other appropriate materials. Refer to the Timber Treat Material Safety Data Sheet for additional health and safety information.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

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

Do not contaminate wells or cisterns

Mixing Instructions

Timber Treat is a concentrated solution that must be diluted with water before use. Warm or hot water is preferred. If available, an impeller-type mixer combined with an electric drill will maximize the dilution process.

For use with a Hand Volume Pumping System, first add water to tank. Start circulator and slowly add Timber Treat concentrate. Continue circulator until solution is completely mixed and consistent.

For use with a Hand Sprayer, first mix Timber Treat with water in a clean container until completely mixed. To avoid blocked hoses and nozzles, never mix Timber Treat directly into spray tank. Always use a clean separate container for mixing.

Timber Treat solutions mixed at ratios of 1:1, 2:1 or 3:1 should be used within 24 hours of mixing. A mixing solution of 5:1 can be used within 30 days. Do not allow solution to remain in mixing tank or under pressure overnight. All mixing equipment should be cleaned or flushed with water after use.

For maximum performance against mold or insects, Timber Treat may be tank-mixed with an approved non-residual pesticide.

Dilution Ratio Tables:

| Target Insect/Pest | Mixing Ratios with Water | Application |
|--|--------------------------|---|
| All Insects | 1:1 | Apply by spray, injection, brush or roller for use as a remedial control agent. |
| Formosan and Subterranean Termites | 1:1 or 2:1 | Apply the 1:1 ratio by spray, injection, brush or roller. Apply 2:1 ratio for foaming applications or for use in accessible wall voids. |
| Drywood Termites or Carpenter Ants | 1:1, 2:1 or 5:1 | Apply 1:1 ratio for all remedial treatments. Apply 2:1 by foam or if using an IPVM-approved misting machine. Apply 5:1 ratio for preventative treatment. |
| Anobiid and Lyctid Powderpost Beetles | 1:1, 2:1 or 5:1 | Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4" in thickness. Apply 2:1 ratio for treating hardwood floors. Apply 5:1 ratio for preventative treatment. |
| All Other Beetle Species including Old House Borer | 1:1 or 5:1 | Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4". Apply 5:1 ratio for preventative treatment or for wood less than 4" in thickness. |
| Fungi (Rot) and Algae | 1:1, 3:1 or 5:1 | Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4". Apply 3:1 ratio for preventative treatment or for wood less than 4" in thickness. Apply 5:1 for preventative treatment. |

Additional Ratio Instructions

For logs, large beams, timber and wood less than 4" in thickness, refer to table above and apply 5:1 ratio only for dip treatment for insect prevention. Timber Treat may be used in addition to other fungicides.

For logs, large beams, timber and wood greater than 4" in thickness, refer to table above and spray application for insects and Fungi (Rot).

For decking, fences and plywood, refer to table above and use on wood less than or equal to 2" in thickness.

For cellulosic drywall and insulation, apply in 1:1, 3:1 or 5:1 ratios. Apply 3:1 ratio for remedial treatment of dry rot. Apply 5:1 ratio for preventative treatment of dry rot. Timber Treat may be used in addition to other fungicides.

To mix with Disodium Octaborate Tetrahydrate, use the following ratios:

| <u>D.O.T. %</u> | <u>Ratio</u> |
|-----------------|--------------|
| 23% | 1:1 |
| 16% | 2:1 |
| 13% | 3:1 |
| 9% | 5:1 |

General Information

Timber Treat will eliminate infestations and provide lasting protection against the following:

- Ambrosia Beetles (Playpodidae, Scolytidae)
- Anobiid Beetles (Anobiidae)
- Brown Rot (including Dry Rot) White Rot, Wood Decay and Other Fungi.
- Carpenter Ants (Camponotus)
- Dampwood Termites (Zootermopsis, Neotermes)
- Drywood Termites (Kaloterme, Incisitermes)
- Formosan Termites (Coptotermes)
- Old House Borers & Longhorn Beetles (Cerambycidae, Hylotrupes)
- Powderpost Beetles (Lyctidae, Bostrichidae)
- Subterranean Termites (Reticulitermes, Heterotermes)

Timber Treat is effective when applied as a preventative subterranean termite treatment to concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials found in structures. Timber Treat is also effective when used on all cellulosic materials including wood, plywood, particle board, paper, cardboard and wood composite structural components. Do not apply on materials that contain an intact water-repellant barrier (i.e., paint, stain or sealer).

Use caution when spraying overhead interior areas of homes or apartments, etc. Never apply in food serving areas when food is exposed. Cover and protect all exposed surfaces

with plastic sheeting or other material than can be disposed of upon contamination or after spraying. Use soap and water to clean tools after application.

An appropriate pigment or marker dye may be added to Timber Treat to indicate where the solution has been applied. Always refer to the dye product label for specific instructions.

When applying Timber Treat to prevent subterranean termites in new construction, structural wood is defined as only wood needed for the basic building structure as found in the dried-in-stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Timber Treat is not a soil termiticide. Timber Treat may be applied as an additional treatment where a soil treatment termiticide has been applied and/or termite bait system installed. Timber Treat can be used as an additional treatment to protect wood from subterranean termites that may have penetrated from the chemical gaps occurring within the termiticide soil or have bypassed the bait/monitor systems and entered the structure, entirely bypassing the soil treatment.

When used as a remedial treatment, Timber Treat will eliminate and prevent infestation of Formosan, native subterranean termites, wood boring beetles, carpenter ants and decay fungi. To use for long-term residual control, Timber Treat can be used as a supplement or substitute to fumigation. The inorganic salt contained in Timber Treat will not cause decomposition or vaporization from the wood. Timber Treat is can be used in areas where contamination is a concern, such as nearby wells, cisterns, etc.

On occasion, older wood boring beetle larvae and pupae that are already present in the wood may emerge after treatment. These occurrences are rare. Due to the infrequency, this should not cause any structural damage to any wood member or allow a reinfestation to occur after treatment.

The application of Timber Treat to wood surfaces in new construction or inside wall voids in existing structures helps prevent pest infestations, including cockroaches. One gallon of Timber Treat will cover 400 square feet of treated surface area.

Remedial Treatments

Wood

Spray or inject Timber Treat solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply one coat of Timber Treat solution to infested areas of wood until completely wet. For wood members with only one or two exposed sides, two coats of Timber Treat solution may be applied. For heavily infested areas, wait 20 minutes between applications.

If the infestation area is not accessible from the surface, drill small holes into the wood and apply enough solution to completely fill galleries or voids. A pressure injector may

be used for adjacent intact wood by drilling holes at 8-10 inch intervals; inject at 40 psi for 3-6 seconds per hole.

Basements and Crawl Spaces

Apply one coat of diluted Timber Treat solution to infested areas of wood (i.e., sill plates, piers, girders, subfloors, floor joists and any wood exposed to vertical access from the soil) until completely wet. For wood members with only one or two exposed sides, two coats of Timber Treat solution may be applied; wait 20-30 minutes between applications. One gallon of Timber Treat solution can cover 200 square feet of floor area or 400 square feet of wood surface area.

Buildings on Slabs

Timber Treat should be applied into wall voids by locating the studs and drilling a small hole through the wall covering to gain access to the infested area. An IPVM-approved misting or foaming machine may also be used – see foam application below. Holes should be drilled 18-24 inches apart and to the side of each stud. Inject 1/3 fluid ounce of Timber Treat solution into each hole. Drill a minimum of one hole per stud bay near the floor to treat the base plate in each void. To ensure the entire infested area is treated, apply solution to the entire wall areas and not only to single stud bays.

Wood Flooring

Apply Timber Treat to wood flooring by spray, brush or roller application. Remove any existing finish by complete sanding or stripping before application. One gallon of Timber Treat solution will cover 500 square feet of floor surface when mixed at a 2:1 (2 part water, 1 part Timber Treat) ratio. Two coats may be required when treating infestations of subterranean or Formosan termites; wait 60 minutes between applications. Floor must dry completely before applying final finish (typically 48-72 hours). The moisture content must be 10 percent or less.

The application of Timber Treat may cause the grain of the wood to raise and light sanding may be necessary prior to applying a new finish. While Timber Treat is safe and adaptable by most wood flooring, test an inconspicuous area with the treatment and verify finish prior to coating the entire floor. If a residue remains on the flooring after 72 hours of drying time, clean and rinse the affected area with a mop or sponge. Floor must dry completely before applying light sanding and/or final finish.

Non-Accessible Areas

Timber Treat may be applied using a spray or IPVM-approved misting machine for treating voids, wall studs and wood members not accessible by conventional application methods. Apply spray or mist into voids and channels of infested wood or through small holes drilled into the walls and baseboard areas. There should be at least one drilled hole between each wall stud and the holes should not be spaced more than 24" apart within the treated area. Apply enough spray or mist until completely wet. Insulation may conflict with the application and may be moved prior to treatment.

Foam Application

Timber Treat may be applied as foam into void spaces or to bare wood. Apply by mixing 2:1 (2 parts water to 1 part Timber Treat) ratio and add 3 to 8 ounces of Foam Fill (foaming agent) per gallon of mixed solution. Foam will become liquid and soak into wood within 1 hour. Timber Treat should be applied to void spaces at a 1:20 to 1:30 foam ratio (one gallon of mixed solution expanded with foaming agent to produce 20-30 gallons of foam). Apply a generous amount of foam to fill void and contact wood surfaces within void.

Foam Insulation

Apply a 1:1 (one part water to one part solution) ratio of Timber Treat to foam insulation by injecting the solution into the infested area. If a low pressure surface sprayer is used, one gallon of solution will cover 300-400 square feet of infested area. The combination of injection and spraying is recommended for insulation types such as polyisocyanurate and extruded polystyrene due to their closed cell structures that reduce penetration from surface application.

Crawl Space, Basement and Slab

Timber Treat may be applied as a supplemental treatment to concrete, block or brick on basement foundations and the interior of crawl spaces to prevent shelter tubing by subterranean termites. For this application, apply a 1:1 ratio of Timber Treat. In crawl spaces and unfinished basements, apply Timber Treat to 24 inches up from the ground on the interior wall surfaces. In unfinished basements, Timber Treat may be applied up to 6 inches away from the foundation walls onto the horizontal surface of the bare slab in addition to the wall treatment. Bath trap areas in slab construction may be treated by applying 8 ounces of a 1:1 ratio into the soil of dirt filled traps and by applying a 1:1 ratio in at least a 12 inch band covering all sides on the slab surface area out from the trap area. When treating plumbing penetrations or other termite access areas, apply a 1:1 ratio in at least a 12 inch band covering all sides of the slab surface area out from the penetration, and apply up to 24 inches on protruding utilities and adjacent wood.

Preventative Treatments and Pretreatments

Whole House Protection

Timber Treat is effective in preventative treatment for subterranean, Formosan, drywood and dampwood termites, carpenter ants, old house borers, powderpost and other wood boring beetles and fungi (rot). For optimal results, apply Timber Treat during the stage of construction when the most access to all structural wood members is available. This stage of construction normally occurs when all structural wood and sheathing is set, but prior to installation of electrical wiring, insulation and mechanical systems.

For treatment against subterranean and Formosan termites, apply one coat of a 1:1 (1 gallon water to 1 gallon Timber Treat) ratio to wood surfaces until completely wet. Apply a 5:1 (5 parts water to one part Timber Treat) ratio to the following areas:

- Ceiling joists, trusses, top plates, rafters and roof decking in attics.
- Exterior wood including siding, facias, soffits, eaves, roofing, porches, decks and railings.
- Sills, plates, floor joists, piers, girders and subfloors.
- Structural wood in plumbing, electrical and ductwork areas.
- Structural wood base plates and studs on interior and exterior walls.
- Structural wood in contact with slab, interior and exterior wall studs and wall sheathing material in buildings built on slabs.
- Structural wood sill plates and structural wood contacting garages and porches.

For wood members with only one or two exposed sides, two coats of Timber Treat solution may be applied; wait 20-30 minutes between applications.

Subterranean Termites in Crawl Spaces, Basements and Slabs

When treating for subterranean termites in crawl spaces, basements and slabs, apply a 1:1 (one part water to one part Timber Treat) ratio. Apply Timber Treat at the stage of new construction when all structural wood and sheathing is in place, but prior to insulation. For optimal results, Timber Treat should be applied after final framing inspection and when the most access to all structural wood members is available. If treatment is applied before framing inspection, a second treatment may be necessary to ensure effectiveness.

For application in new construction, do not use Timber Treat if the total linear footage of the cellulosic base plates is less than 60% of the total linear footage of all base plates in structure including exterior and interior walls. If the total linear footage of the cellulosic base plates is greater than 60%, but without continuous wood on every exterior wall, apply Timber Treat to all exterior structural materials, including block or brick, to a height of 24 inches and extend out onto the slab from 2 to 8 inches.

Buildings on Crawl Spaces and Basements

Apply Timber Treat at a 1:1 (one gallon water to one gallon solution) ratio in a 24 inch wide continuous band until all structural wood surfaces in crawl spaces and basements are completely wet. Application should include all sills, plates, floor joist, piers, girders, subfloors and all structural wood exposed to direct vertical access from the soil. To treat for termite shelter tubes on crawl space walls, apply a 1:1 (1 part water to 1 part solution) ratio to concrete or block walls in a 24 inch band up from the ground on interior wall surfaces. One gallon of solution will cover 400 square feet of surface area. If treating areas adjacent to plumbing and electrical conduit and ducts penetrating subfloors and areas that provide a direct vertical access from the soil, treat a 24 inch band in this area. Apply Timber Treat to all structural wood in finished-out basements where structural wood framing is adjacent to the exterior foundation walls. Concrete slab surfaces should be sprayed 2 to 8 inches. Spray interior concrete or block foundation walls with a 24 inch band up from the slab area to prevent termite shelter tubes. A 1:1 (one gallon water to

one gallon solution) ratio will treat 400 square feet of concrete foundation wall area. Apply two coats of Timber Treat on structural wood where access is limited to one or two sides of wood members such as sills and plates on foundation walls or wrapped sheathing; wait 20-30 minutes before applying second coat. Apply Timber treat to the entire perimeter of the exterior structural wood areas at a 24 inch band beginning with the sill area and extending upwards. If the structure contains multiple stories, only treat the first story above the masonry foundation level. Timber Treat may be applied to coated or painted structural wood by injecting solution into holes drilled at 8 to 10 inch intervals. Inject at 40 psi for 3-6 seconds per hole.

Buildings on Slabs

Apply Timber Treat at a 1:1 (one gallon water to one gallon solution) to all base plates, the bottom 24 inches of all studs, all exterior and interior walls and 2 to 8 inches of concrete surface from the plates. Apply two coats of Timber Treat on structural wood where access is limited to one or two sides of wood members such as sills and plates on foundation walls or wrapped sheathing; wait 20-30 minutes before applying second coat. Apply a minimum 24 inch wide barrier of treatment to all structural wood in plumbing walls, wood in bath traps and structural wood adjacent to plumbing, electrical conduit and duct penetrations. Treat all slab surfaces at least one foot out from all bath trap penetrations and all plumbing penetrations at least 24 inches up from the slab using a 1:1 (one part water to one part solution) ratio. Apply 8 to 16 ounces of the 1:1 Timber Treat mixed solution evenly to the dirt-filled bath traps. Plumbing penetrations not associated with any structural wood may be sprayed up to 24 inches high and covering at least six inches of slab surface area with a 1:1 (one part water to one part solution) ratio.

Foam Insulation

Apply Timber Treat to foam insulation by injecting the solution into the infested area. If a low pressure surface sprayer is used, one gallon of solution will cover 300-400 square feet of infested area. The combination of injection and spraying is recommended for insulation types such as polyisocyanurate and extruded polystyrene due to their closed cell structures that reduce penetration from surface application.

Drywood Termites and Powderpost Beetles

Apply one coat of a 5:1 (5 gallons water to 1 gallon Timber Treat) ratio until completely wet. For wood members with only one or two exposed sides, two coats of Timber Treat solution may be applied; wait 20-30 minutes between applications.

Treatment of Wood Less Than Two Inches Thick (Decks/Sheds/Fences)

Timber Treat may be applied to exterior wood surfaces less than two inches thick such as decks, sheds and fences. All painted or finished wood should be removed prior to treatment. Apply one coat to all wood surfaces until completely wet. For wood members with only one or two exposed sides or heavily infested areas, two coats of Timber Treat solution may be applied; wait 20-30 minutes between applications. Timber Treat should not be applied during rain or snow. Treated areas need to be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Finishing and Maintaining Surfaces

To maintain treated surfaces, a water-resistant finish such as paint or stain should be applied. It is important the treated surfaces are completely dry before applying any finish or topcoat. It is recommended to wait 48 hours, but no more than 6 weeks after treatment. Test a small area with the finish or topcoat before applying to entire surface area.

Treatment Wood Greater Than Two Inches Thick (Logs/Timbers/Beams/Pilings)

Timber Treat may be applied to wood members greater than two inches thick such as logs, timbers, beams and pilings. All painted or finished wood should be removed prior to treatment. Apply a 1:1 (1 gallon water to 1 gallon Timber Treat) ratio until completely wet. To treat round logs 10" or greater in diameter, rectangular logs larger than 6"x12", log ends, notches, corners or sill logs, two coats of Timber Treat are required; wait one hour between applications. Timber Treat should not be applied during rain or snow. Treated areas should be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Dip Treatments

Logs and lumber may be dip treated by mixing a 5:1 (5 parts water to 1 part solution) ratio which contains a 9% active ingredient. Logs and lumber should be submerged into solution for at least one minute until all captured air has been removed and the solution covers all wood surfaces. Timber Treat should be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Wood with Ground Contact

Wood in contact with the ground or soil has a limited lifespan, but protection may be lengthened by using a 40% disodium octaborate tetrahydrate or borate gel product. Timber Treat will need to be reapplied to wood in contact with the ground or soil.

Control of Algae to Cellulosic Building Components

Timber Treat may be applied for the prevention and remedial control of algae to cellulosic building components such as drywall and insulation in new construction or existing structures. All painted, sealed or stained coatings should be removed prior to treatment to surfaces. For drywall and insulation, Timber Treat should only be applied to the back paper side. If drywall has been installed and insulation is enclosed, an IPVM-approved misting machine or applicator may be used to apply Timber Treat. One gallon of solution will cover 400 square feet.

Total Wood Preservative

Timber Treat is a wood preservative against brown rot, white rot, fungi (rot) and wood destroying insects including beetles, termites and carpenter ants. For optimal results, treated material should not be exposed to rain, moisture or have contact with the ground.

General Information

Timber Treat will eliminate infestations and provide lasting protection against the following: Subterranean Termites (Reticulitermes, Heterotermes, Coptotermes), Drywood Termites (Kaloterme, Incisitermes), Dampwood Termites (Zootermopsis), Powderpost Beetles (Lyctidae, Bostrichidae), Anobiid Beetles (Anobiidae), Old House Borers & Longhorn Beetles (Cerambycidae) and Carpenter Ants (Camponotus).

Surface Preparation

Apply Timber Treat to bare wood only. Surfaces should be free of all previous finishes, water repellants, dirt or other contaminants. Mold or mildew should be removed by using an effective wood cleaner followed by a thorough rinse with water.

Treatment of Dimensional Lumber, Plywood and Exterior Wood Surfaces

All paint or finishes applied to wood should be removed prior to treatment. Apply one coat to wood surfaces until completely wet as follows:

- Remedial treatment of wood infesting insects 1:1 solution (1 part water to 1 part Timber Treat)
- Remedial treatment of fungi (rot) 3:1 solution (3 parts water to 1 part Timber Treat)
- Prevention treatment of insects or fungi 2:1 foam or mist (2 parts water to 1 part Timber Treat)
- Prevention treatment of insects or fungi 5:1 solution (5 parts water to 1 part Timber Treat)

For wood members with only one or two exposed sides or heavily infested areas, two coats of Timber Treat solution may be applied. Timber Treat should not be applied during rain or snow and treated areas should be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Treatment of Logs, Timbers and Large Beams

All paint or finishes applied to wood should be removed prior to treatment. Surfaces should be free of all accumulated dirt or other contaminants. Apply a 1:1 (1 part water to water part solution) ratio to all interior and exterior surfaces by spray or brush until the point of runoff. To treat round logs 10" or greater in diameter or rectangular logs larger than 6"x12", log ends, notches, corners or sill logs, two coats of Timber Treat are required; wait one hour between applications. Timber Treat should not be applied during rain or snow and treated areas should be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Dip Treating Logs and Lumber

Logs and lumber may be dip treated by mixing a 5:1 (5 parts water to 1 part solution) ratio which contains a 9% active ingredient. Logs and lumber should be submerged into solution for at least one minute until all captured air has been removed and the solution covers all wood surfaces. Timber Treat should be protected from the rain or snow for at least 48 hours. If rain or snow is unavoidable, cover treated areas with a tarp or plastic covering.

Finishing and Maintaining Surfaces

To maintain treated surfaces, a water-resistant finish such as paint or stain should be applied. It is important the treated surfaces are completely dry before applying any finish or topcoat. It is recommended to wait 48 hours, but no more than 6 weeks after treatment. Test a small area with the finish or topcoat before applying to entire surface area. Most interior surfaces do not require the finish or topcoat, except if they are contact with constant humidity or moisture (i.e., shower stalls, bath houses, saunas, etc.).

Retention Rates

A mixed solution of one gallon of water with one gallon of Timber Treat will cover 800 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Use the following formulas to calculate the amount of Timber Treat needed for the volume of wood being treated (not just the surface area):

Dimensional Lumber: Thickness (inches) x Width (inches) x Length (feet) ÷ 12 = Board Feet

Log Homes: Height (inches) x Thickness (inches) x Perimeter (feet) x # of Courses ÷ 12 = Board Feet

For siding and paneling, a mixed solution of one gallon of water with one gallon of Timber Treat will cover 800 square feet of 1 inch thick wood by spraying one side. If siding or paneling is 1/2 inch thick, a mixed solution of one gallon of water with one gallon of Timber Treat will cover 1,600 square feet.

STORAGE AND DISPOSAL

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

Pesticide Storage - Store in a cool and dry storage area not accessible by children or pets. It is recommended that the product be stored in a locked storage area. Do not allow product to freeze.

Pesticide Disposal – If empty: Do not reuse empty container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

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.

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