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10182-107

Page 1 of 22

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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25 SEP 1996

Mr. Tim Theodorakis
Zeneca Ag Products
1800 Concord Pike
PO Box 15458
Wilmington, DE 19850-5458

Dear Mr. Theodorakis:

305 / \$454422

Subject: Acute Toxicity Battery; Revised Labeling
Demon EC Insecticide
EPA Registration No. 10182-105
Demon TC Insecticide
EPA Registration No. 10182-107
Your Submission Dated November 16, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes indicated below prior to release for shipment of product bearing the amended labeling:

- 1. We have completed review of the submitted six acute toxicity studies (MRID's 430139-01 through 430139-06). The acute toxicity profile for your product is as follows:

ACUTE ORAL	Category II	Acceptable
ACUTE DERMAL	Category III	Acceptable
ACUTE INHALATION	Category III	Acceptable
PRIMARY EYE	Category III	Acceptable
PRIMARY SKIN	Category II	Acceptable
DERMAL SENSITIZATION	NA	Unacceptable

CONCURRENCES

SYMBOL							
SURNAME	Blackwell						
DATE	9/24/96						

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Based on this acute toxicity profile we have the following labeling comments for the Precautionary Statements and Statement of Practical Treatment:

The precautionary statements must state:

"May be fatal if swallowed. Causes skin irritation. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Do not get on skin or clothing. Avoid contact with eyes. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse." (You may retain statements regarding protective clothing).

The statements of practical treatment should state:

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting in or give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

2. California Department of Pesticide Regulation (CDPR) reviewed all studies except the dermal sensitization. CDPR placed the study into toxicity category III, however Precautionary Review Section (PRS) has placed the study into category II. This discrepancy in toxicity categories may be due to a slight difference in the terminology used in the report's Draize Scale when compared to other references for the Draize Scale.
3. The dermal sensitization study is unacceptable and must be reconducted. Please refer to the enclosed review for more information. Once an acceptable study is submitted we may require additional labeling statements.
4. Replace the precaution, "Do not use in greenhouses where crops for food or feed are grown" with "Do not use in commercial greenhouses or nurseries. Not for use on plants being grown for sale of other commercial use, or for commercial seed production, or for research purposes. Do not use in on food or feed crops."
5. Please confirm that the Confidential Statement of Formulation dated April 30, 1992, is the basic formula of record. The acute toxicity studies used to support this product were conducted using this formulation.

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Submit three copies of your final printed labeling before you release the product for shipment.
A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (7505C)

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DEMON® TC Insecticide

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

ACTIVE INGREDIENT:

Cypermethrin

(±)α-cyano-(3-phenoxyphenyl)methyl(±)-cis,trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate* 25.3%

INERT INGREDIENTS 74.7%

Total 100.0%

*Cis/trans ratio: Min. 45% (±) cis and max. 55% (±) trans

DEMON TC contains 2 pounds active ingredient per gallon.

EPA Reg. No.: 10182-107
EPA Est. No.:
U.S. Patent No. 4.024.163

KEEP OUT OF REACH OF CHILDREN

WARNING

Made in U.S.A.
ZENECA Professional Products
ZENECA Inc.
Wilmington, DE 19897

ACCEPTED
with COMMENTS
in EPA Letter Dated

25 SEP 1996

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

10182-107

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STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Control Center. Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages from aspiration of the solvent.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention if breathing difficulty persists. Apply artificial respiration if necessary.

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

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

MAY BE FATAL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. MAY CAUSE ALLERGIC SKIN REACTIONS. Do not get in eyes, on skin or on clothing. Wear protective clothing when spraying. Wear protective clothing, impermeable gloves and full face shield or goggles when handling or mixing concentrate. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

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ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters. ~~This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply DEMON TC, or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from Cooperative Extension Service.~~ Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

GENERAL INFORMATION ON THE USE OF THIS PRODUCT FOR TERMITE CONTROL

Chemicals for soil treatment are used to establish a barrier against termite attack. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil.

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

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

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

SUBTERRANEAN TERMITE CONTROL

USE DIRECTIONS

Avoid contamination of public and private water supplies by following these precautions:

- Use anti-backflow equipment or procedures.
- Do not treat soil beneath structures that contain wells or cisterns.
- Care must be taken to avoid runoff. Do not treat soil that is water-saturated or frozen.

Consult State and local specifications for recommended distance of treatment areas from wells. Refer to Federal Housing Administration Specifications for guidance on preconstruction treatments.

After Treatment: Securely plug all holes drilled in construction elements of commonly occupied areas of structures, including unfinished basements, enclosed porches, garages, and workshops.

APPLICATION VOLUMES

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

Where soil conditions will not accept application of specified volume (gallons) of emulsion, the 0.5% emulsion may be applied at one-half the labeled application volume or a 1% emulsion may be applied at one-half the labeled application volume. Distribute the treatment evenly.

NOTE: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustments to account for lower volume dispersal of the termiticide in the soil. Volume adjustments at 1% are not recommended for subslab injection.

VOLUME ADJUSTMENT CHART			
Volume Allowed	Rate (% Emulsion)		
	0.25%	0.5%	1.0%
Horizontal (gallons emulsion/linear feet)	1 gallon	½ to 1 gallon	¼ to ½* gallon
Vertical (gallons emulsion/linear feet)	4 gallons	2 to 4 gallons	1 to 2* gallons

* Not recommended for subslab injection.

PRECONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

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

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

Use a 0.25-0.50% emulsion for subterranean termites. For a 0.25% emulsion mix 1 gallon of DEMON TC in 99 gallons of water. For a 0.50% emulsion mix 2 gallons of DEMON TC in 98 gallons of water.

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

HORIZONTAL BARRIERS: Horizontal barriers may be established in areas intended for covering such as floors, porches, and other critical areas, application shall be made by a low-pressure spray (less than 50 p.s.i. at the nozzle).

Apply the emulsion at the rate of 1 gallon per 10 square feet to fill dirt. If fill is washed gravel or other coarse material, apply the emulsion at the rate of 1-1/2 gallons per 10 square feet. If concrete slabs cannot be poured over soil the same day it has been treated, a waterproof cover, such as polyethylene sheeting, should be placed over the soil. This is not necessary if foundation walls have been installed around the treated soil.

VERTICAL BARRIERS: Vertical barriers may be established around the base of foundations, plumbing, back-filled soil against foundation walls, and other critical areas: applications may be made by rodding and/or trenching. Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet.

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

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

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

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

CRAWL SPACES: For crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing. Application may be made by rodding and/or trenching. Treatment should include both sides of foundation and around all piers and pipes.

Rod holes should be spaced to provide a continuous chemical barrier.

Trench need not be wider than 6 inches nor below the foundation. The emulsion should be mixed with the soil as it is being replaced in the trench.

POSTCONSTRUCTION TREATMENTS

Use a 0.25%-0.50% emulsion for subterranean termites. For a 0.25% emulsion mix 1 gallon of DEMON TC in 99 gallons of water. For a 0.50% emulsion mix 2 gallons of DEMON TC in 98 gallons of water.

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

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

SLAB-ON-GROUND: Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth. Application shall be made by sub-slab injection, trenching, and/or rodding. Injectors should not extend below the tops of the footings.

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

Drill holes should be spaced about 10 to 24 inches apart to provide a continuous chemical barrier. (For best results, application should be made with a lateral dispersion nozzle.)

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

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

When making soil applications to the foundations extending deeper than 1 foot, follow instructions under **BASEMENTS - Outside Perimeter**. (See exception for monolithic slabs immediately following.) **Note:** For monolithic slab construction a vertical barrier may be established along the outside of foundation walls from grade to the bottom of the monolithic poured concrete foundation. Where the foundation extends deeper than one foot, rod holes should not extend beneath the bottom of the monolithic poured concrete foundation.

HOLLOW MASONRY UNITS OF FOUNDATION WALLS: Treatment may be made through masonry voids to establish a continuous chemical barrier at the top of the footing. Apply at the rate of 2 gallons per 10 linear feet of footing. Where this treatment is necessary, access holes must be drilled below the sill plate and should be through a lower mortar joint as close as possible to the footing.

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

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

Inside: Treatment may be required along inside of foundation walls and along one side of interior partition walls (or bearing walls) especially where the wall is connected by fixtures inserted in the floor. Application may also be necessary around sewer pipes, floor drains, conduits, or any cracks in the basement floor. Drill holes should be spaced about 10 to 24 inches apart to provide a continuous chemical barrier. **Note:** Sandy soils will tend to give less lateral dispersion than clay soils. Spacing should be determined by soil type.

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

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

HOLLOW MASONRY UNITS OF THE FOUNDATION AND/OR BASEMENT WALL (BELOW GRADE): Treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gallons per 10 linear feet. Apply the emulsion so it will reach the footing.

ACCESSIBLE CRAWL SPACES: Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from the grade to the top of the footing. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet. For best results application should be made by rodding and/or trenching.

- Treat both sides of foundation and around all piers and pipes. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.
- A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray (not exceeding 25 p.s.i.) may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

- To prevent subterranean termites from constructing tubes from soil to crawl space wood members above, an overall soil treatment of this product may be applied. Remove all cellulose debris before application of 1 gallon per 10 square feet overall. Use fans to exhaust crawl space air when working in a confined space. Wear appropriate protective clothing, gloves, and unvented goggles. Keep children and pets out of treated area in crawl space until surface is dry.
- When treating plenums or crawl spaces, turn off the air circulation system of the structure until application-generated dust or spray mist has settled.

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

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

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

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

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

BATH TRAPS: Where there is exposed soil beneath and around plumbing/waste pipe entrances through a concrete slab, this soil may be treated with 0.5% dilution of this product.

An access door for inspection and treatment should be cut and installed if not already present. After inspection and removal of any wood (form boards) or cellular debris, treat the soil by rodding and/or flooding with 0.5% emulsion of this product.

FOAM APPLICATIONS

DEMON TC insecticide emulsion may be converted to a foam and the foam used to treat voids to control or prevent termite, ant, bee, wasp infestations or other arthropods harboring under slabs.

Rates: Use a 0.25% to 1.0% emulsion converted to a foam with expansion characteristics from 2 to 20 times.

Note: When using a foaming product be sure that it is compatible with DEMON TC insecticide.

Applications Under Slabs or to Soil in Crawl Spaces:

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

Applications to Other Areas:

- Applications may be made using either DEMON TC foam alone or in combination with a liquid emulsion.
- Applications may be made behind veneers, piers (concrete or wood), chimney bases, into rubble foundations, into block voids, structural voids (i.e., between stud walls), poles, stumps, and wood in crawl spaces.
- Applications may be made in other areas, which include but are not limited to:
 - Foundations penetrated by utility services,
 - Cracks and expansion joints.
 - Bath traps.
 - Areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

POSTS, POLES AND OTHER CONSTRUCTIONS

Application may be made to create a chemical barrier in the soil around wooden construction such as signs and landscape ornamentation by applying a 0.25-0.5% emulsion. Treat on all sides to create a continuous barrier around posts and poles.

Use 1 gallon of emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1½ gallons of emulsion per foot of depth. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

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

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

1. Trench and remove soil to be treated onto heavy plastic sheeting or similar material.
2. Treat the soil at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.
3. After the treated soil has absorbed the liquid emulsion, replace the soil in the trench.

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

UNDERGROUND SERVICES

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

Soil treatment may be made using a 0.25% to 0.5% DEMON TC emulsion to prevent attack by termites and ants.

Apply 2 to 4 gallons of emulsion per 10 linear feet to the bottom of the trench and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 to 4 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the service. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil conditions will not accept application of specified volume of 0.25% emulsion, the 0.5% emulsion may be applied at one-half the application rate or 2 gallons per 10 linear feet.

Finish filling the trench with untreated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of emulsion into the soil.

Precaution: Do not treat electrically-active underground services.

RETREATMENT

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

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

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TREATMENT OF WOOD IN PLACE FOR CONTROL OF TERMITES, CARPENTER ANTS, CARPENTER BEES AND WOOD INFESTING BEETLES

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

Mixing Information: For wood in place and above-ground treatments, use a 0.1% concentration. To prepare a 0.1% emulsion, add 0.5 fluid ounces of DEMON TC to 1 gallon of water. To prepare 50 gallons of emulsion, add 0.2 gallons (25.6 fluid oz) of DEMON TC to 49.50 gallons of water. To prepare 100 gallons of emulsion, add 0.4 gallons (51.2 fluid oz) of DEMON TC to 99 gallons of water. Use this spray at a rate of 1 gallon of diluted spray per 1,000 square feet of surface area.

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

Remove pets, birds, and cover aquariums before spraying indoors. Do not permit humans or pets to contact treated surfaces until the spray has dried.

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

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

CONTROL OF WOOD INFESTING BEETLES: To control wood infesting insects such as powderpost beetle (*Lyctidae*), false powderpost beetles (*Bostrichidae*), deathwatch beetles (*Anobiidae*), old house borers (*Cerambycidae*) and ambrosia beetles (*Scolytidae*) in homes and other structures, apply as an emulsion containing 0.25% DEMON TC. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray. When spraying overhead interior areas of homes, apartment buildings, etc., cover all surfaces below the area being sprayed with plastic sheeting or other material which could be disposed of by placing in trash if contamination from dripping occurs. Sprayed surfaces should be avoided until spray has totally dried. Do not use in structures occupied by animals to be used for food purposes or which produce products for human consumption.

TERMITES ABOVE GROUND: For control of termites, subterranean aerial colonies, Formosan aerial colonies or drywood termites in localized areas of infested wood in structures, apply a 0.1% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Application may be made to inaccessible areas by drilling, and then injecting the

emulsion with a crack and crevice injector into the damaged wood or void spaces. Application to attics, crawl spaces unfinished basements, or man-made voids may be made with a coarse fan spray of 0.1% emulsion to control workers and winged reproductive forms of termites in mud shelter tubes. This type of application is not intended to be a substitute for soil treatment for extensive infestation of drywood termites or other wood-infesting insects.

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

Termite carton nests in trees or building voids may be injected with 0.25%-0.50% emulsion using a pointed injection tool. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

CARPENTER ANTS: For control of carpenter ants in houses and other structures, apply as a 0.25% emulsion for protection up to 5 weeks, a 0.5% emulsion for protection up to 11 weeks, and a 1.0% emulsion for protection up to 1 year, with retreatment semiannually as needed, around doors and windows and other places where carpenter ants enter the premises and where they crawl. Spray into cracks and crevices or through openings or small drilled holes into voids where these ants or their nests are present. Use no more than a sufficient amount of coarse spray to cover the area to the point of runoff. Do not exceed 1 gallon of dilute emulsion per 1000 square feet of treated surface.

For carpenter ants active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject 0.25% emulsion, for protection up to 1 week, using a treatment tool with a splashback guard. Reapply under heavy reinfestation pressure.

FIREWOOD PROTECTION FROM CARPENTER ANTS: Prior to laying in firewood, soil beneath the cord(s) may be treated with a 0.25%-0.50% emulsion at 1 gallon per 10 square feet to prevent carpenter ant infestation.

CARPENTER BEES: Use a 0.1% emulsion for control of carpenter bees. Liquid may be sprayed directly into gallery entrance holes. Following treatment, the entrance holes may be left open 24 hours to be certain that returning adult bees are killed. When there is no activity, the hole may be closed with wood putty.

RECOMMENDATION FOR CONTROL OF CLUSTER FLY

Apply DEMON TC to the outside of the structure. Mix 1 oz. DEMON TC to 10 oz. deodorized lightweight mineral oil; apply to 1,000 square feet of wall area. Use a fogging apparatus which delivers the material in a strong air carrier, producing a small particle size. The apparatus should be held within three feet of the surface being treated. Apply only when air movement is less than 2 miles per hour.

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

Generally the north side of structures need not be treated since flies seldom enter from areas of sunlight.

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

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

UNDER SLABS

Infestations of Arthropods, such as ants, cockroaches and scorpions inhabiting under slab area may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of a 0.25% to 0.5% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

IN CRAWL SPACES

Broadcast DEMON TC at 0.25% to 0.5% to all surfaces in crawl spaces to control ants, fleas, cockroaches, scorpions, or other arthropods. Product may also be applied through under-structure insecticidal delivery systems such as piping or flexible tubing mounted under the structure. This treatment is not intended as a substitute for termite control. Treat surfaces to point of runoff. Keep children and pets off surface until dry.

OUTSIDE SURFACES AND AROUND BUILDINGS

Apply DEMON TC using a 0.1% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, residential lawns only such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests . congregate or have been seen. Repeat treatment as necessary to maintain effectiveness.

Keep children and pets off treated areas until dry.

BARRIER TREATMENT: Apply 0.1% to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Use a spray volume of 2 to 10 gallons per 1,000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or dense foliage. House siding may be treated if pests such as boxelder bugs, elm leaf beetles, earwigs or silverfish are present.

PEST	SPECIFIC INSTRUCTIONS			
Ants Ant Mounds Fireants Bark Beetles ² Bees Carpenter Bees Borers ² Boxelder Bugs ¹ Centipedes Cockroaches Asian Cockroaches Crickets Mole Crickets Earwigs Elm Leaf Beetles ¹ Firebrats Fleas ³ Ground Beetles Gypsy Moths (adult & Caterpillars) ¹ Millipedes Scorpions Silverfish Sowbugs Spiders Wasps Ticks ⁵ Flies Carpenter Ants Chinchbugs Pill Bugs	<p>Apply as a pinstream, as a fine/course, low pressure spray (20 psi or less), as a spot treatment or with a paintbrush. Treat where pests are found or entry points of the structure such as window and door frames and along the foundation.</p> <p>DRENCH METHOD (Ant Mounds, Fireants): Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.</p> <p>¹ Boxelder Bugs, Elm Leaf Beetles, Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate, to the point of runoff.</p> <p>² Borers and Bark Beetles: To prevent infestation of trees and woody ornamentals, spray the bark to the point of runoff.</p> <p>³ Fleas: Mix 1.25-2.5 oz. of DEMON TC in 16 to 100 gallons of water and apply to 4,000 square feet of lawn. Use the lower rate to knock down existing fleas and the higher rate where faster knockdown or greater residual is desired. For example:</p>			
	LAWN	SQ. FT.	OZ. OF DEMON TC	GALS. OF WATER
	Small	2,000	0.65 to 1.25	8 to 50
		4,000	1.25 to 2.50	16 to 100
	Medium	6,000	1.95 to 3.75	24 to 150
	Large	12,000	3.90 to 7.50	48 to 300
	1 Acre	44,000	10.4 to 20.8	176 to 1,100
	<p>Lawn should not be longer than 3 inches at the time of application. Repeat application if necessary. Application in combination with compatible surfactants may enhance penetration. Arid climates generally require the higher volume.</p>			

19 7 22

GENERAL RESTRICTIONS AND PRECAUTIONS

Do not use in food or feed areas of food handling establishments, restaurants or other areas where food or feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared 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 reuse. Cover exposed food.

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

Not for use in USDA meat and poultry plants.

DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.

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

Do not use in warehouses while raw agricultural commodities for food or feed are being stored.

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

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

Do not allow people or pets on treated surfaces until the spray has dried.

Do not use concentrate or emulsion in fogging equipment.

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

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

Do not apply to classrooms when in use.

Do not touch treated surface until dry.

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

20 7 22

SPRAY DILUTIONS*

CONCENTRATION OF A.I.	AMOUNT OF DEMON TC	AMOUNT OF WATER
0.1%	0.5 fl. oz.	1 gal.
0.1%	25.6 fl. oz.	49.5 gals.
0.1%	51.2 fl. oz.	99 gals.
0.25%	1.28 fl. oz.	1 gal.
0.25%	1 gal.	99 gals.
0.50%	2 gals.	98 gals.
1.0%	5.12 fl. oz.	1 gal.
1.0%	4 gals.	96 gals.

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

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL:

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

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

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

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking containers.

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

IMPORTANT: Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. 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 and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

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