PM 13 279-3112 Page 1 of 6

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. *Approval expires 05-31-98*

EPA United States Environmental Protection Agency Washington, DC 20460

☐ Registration ☐ Amendment ☒ Other

OPP Identifier Number: 242334

Application for Pesticide - Section I

1. Company/Product Number: 279-3112
2. EPA Product Manager: G.T. LaRocca
3. Proposed Classification: ☐ None ☐ Restricted
4. Company/Product (Name): BifiexTC Termiticide/Insecticide
PM#: 13
5. Name and Address of Applicant *(Include ZIP Code)*:
FMC Corporation
1735 Market Street
Philadelphia, PA 19103
☐ *Check if this is a new address*
6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
Product Name _____

Section - II

☐ Amendment - Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification - Explain below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application.
☐ Other - Explain below.

NOTIFICATION
JUL 3 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of revised Environmental Hazards Statements as per PR Notice 93-3.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes* ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
* ***Certification must be submitted***	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information: ☐ Label ☐ Container
4. Size(s) Retail Container:
5. Location of Label Directions: ☐ On Label ☐ On Labeling accompanying product
6. Manner in Which Label is Affixed to Product: ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

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

Name	Title	Telephone No. (Include Area Code)
Michael C. Zucker	Registration + Label Specialist	(609)951-3073

Certification

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

2. Signature: Michael C. Zucker
3. Title: Registration + Label Specialist
4. Typed Name: Michael C. Zucker
5. Date: 6/21/96
6. Date Application Received (Stamped): RECD EPA/OPP/DPD1 JUN 25 P1:52

2 9 6

Code 1350

Net Contents

RECD EPA/OPP/DPD2

'96 JUN 26 A8:23

Biflex™

TC Termiticide/Insecticide

Only for Sale to, Use and Storage by Professional Pest Control Operators.

EPA Reg. No. 279-3112 **EPA Est. 279-FL-1**

Active Ingredient:	**By Wt.**
Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	25.1%
Inert Ingredients**	74.9%
	100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum.
**Contains xylene range aromatic solvents.

Biflex™ TC termiticide contains 2 pounds active ingredient per gallon.

U.S. Patent No. 4,238,505

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a Poison Control Center or physician promptly for advice. Drink plenty of water. Do not induce vomiting unless advised by a physician or qualified medical advisor. Do not induce vomiting or give anything by mouth to an unconscious person.

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

If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in Eyes: Flush with plenty of water. Call a physician if irritation persists.

Note to Physician:
Pesticide Hotline (800) 858-7378. This product is a pyrethroid. This product also contains aromatic hydrocarbons. Because of the risk of hydrocarbon pneumonitis if even tiny amounts are aspirated into the lung during emesis, consideration should be given to gastric lavage with endotracheal tube in place. Treatment is symptomatic and supportive. Animal and vegetable fats, milk, cream and alcohol may increase absorption and should not be administered.

For Emergency Assistance Call (800) 331-3148

See other panels for additional precautionary information.

FMC®

FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

6/96

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

Warning
May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Applicator must wear long sleeve shirt and trousers. Mixers and loaders must wear long sleeve shirt, trousers, chemical resistant gloves and goggles, or face shield. Avoid breathing vapor or spray mist and 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 contaminated clothing before reuse.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from treated areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

Do not apply this product or allow it to drift to crops or weeds on which Bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

NOTIFICATION

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

JUL 8 1996

Do not apply by air.

Do not use in greenhouses, nurseries.

STORAGE AND DISPOSAL

Pesticide Storage
Do not freeze. Do not store below 40°F. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids. Do not use external source of heat for warming container.

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

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

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

Pesticide Disposal
Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these 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 or Plastic Container: 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. Do not cut or weld metal containers.

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

General Information on the Use of this Product

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

The use of this product prevents and controls Termite infestations in and around structures and constructions.

The dilute insecticidal emulsion must be adequately dispersed in the soil to establish a barrier between the wood and the Termites in the soil. As a good practice: 1) all non-essential wood and cellulose containing materials, should be removed from around foundation walls, crawl spaces, and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current Termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean Termites such as: *Coptotermes, Heterotermes, Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

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

Subterranean Termite Control

Directions For Use

Important: Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not treat soil beneath structures that contain cisterns or wells. Do not treat soil that is water saturated or frozen. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

Note: Crawl spaces are to be considered inside of the structure.

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

Application Rate:
Use a 0.06% emulsion for subterranean Termites. For other pests on the label use specific listed rates.

Mixing:
For the desired application rate, use the chart below to determine the amount of Biflex™ TC Termiticide/Insecticide for a given volume of finished emulsion:

Amount of Biflex™ TC		
Emulsion Concentration	0.06%	0.12%*
Desired Gallons of Finished Emulsion		
1	0.32 oz.	0.64 oz.
5	1.6 oz.	3.2 oz.
10	3.2 oz.	6.4 oz.
25	8 oz.	0.5 qt.
50	0.5 qt.	1 qt.
75	0.75 qt.	1.5 qt.
100	1 qt.	2 qt.
150	1.5 qt.	3 qt.
200	2 qt.	4 qt.

Common units of measure:
1 pint = 16 fluid ounces (oz.)
1 quart = 2 pints = 4 cups = 32 fluid ounces (oz.)

*For Termite applications, only use this rate in conjunction with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

Application Volume: To provide the greatest protection against Termite reinfestation it is important to apply as close to labeled volume of the finished emulsion as is practicable. To ensure thorough and complete coverage in different soil types, it may become necessary to adjust the volume being applied. In situations such as clay-type soils which will not accept large amounts of water, reduced volumes can be used which will deliver the appropriate concentration of termiticide in the soil. This would also apply to sensitive areas and/or horizontal applications where less volume may be desirable. Where necessary, the volume of the emulsion may be reduced by ½ the labeled rate but with corresponding increasing Biflex™ TC. See Table.

Where desirable for pre and post construction treatments, the volume of the 0.12% emulsion may be reduced by ½ the labeled volume. See Volume Adjustment Chart below.

Note: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.

Volume Adjustment Chart		
Rate (% emulsion)	0.06%	0.12%
Volume allowed		
Horizontal (gallons emulsion/10 ft²)	1.0 gallons	0.5 gallons
Vertical (gallons emulsion/10 lin. ft.)	4.0 gallons	2.0 gallons

AfterTreatment: Securely plug all holes drilled in construction elements of living areas of home after application.

Pre-Construction Subterranean Termite Treatment

Pre-Construction Treatment: Pre-construction treatments are defined to include treatments made during all phases of construction up to when the concrete slab is poured.

Effective pre-construction subterranean Termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.06% emulsion of Biflex™ TC. To meet Termite proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards (refer to U.S.D.A. Home and Garden Bulletin No. 64).

Horizontal Barriers
Create a horizontal barrier wherever treated soil will be covered by a slab, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawl spaces.

To produce a horizontal insecticidal barrier, apply the emulsion at the rate of 1 gallon per 10 square feet to fill soil. If fill is washed gravel or other coarse material, apply at 1.5 gallons of emulsion per 10 square feet so that the emulsion will reach the soil beneath the fill. Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a water-proof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.

Vertical Barriers
Vertical barriers should be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.

To produce a vertical barrier in soil, apply the emulsion at a rate of 4 gallons per 10 linear feet per foot of depth. Distribute the treatment as evenly as possible.

a. When rodding or trenching, it is important that emulsion reaches the top of the footing. Rod holes should be spaced to provide a continuous insecticidal barrier.
b. Care should be taken to avoid soil wash-out around the footing.
c. Trenches need not be wider than 6 inches. Emulsion should be mixed with the soil as it is being replaced in the trench.
d. For a monolithic slab, an inside vertical barrier may not be required.

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

Post Construction Subterranean Termite Treatment

Use a 0.06% emulsion for post-construction treatment. Post-construction soil applications shall be made by injection, rodding, and/or trenching or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil wash-out around the footing.

Do not apply emulsion until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.

Slabs
Vertical barriers may be established by sub-slab injection within the structure and rodding and/or trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.

a. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.

b. For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The emulsion should be applied to the trench and soil at 4 gallons of emulsion per 10 linear feet per foot of depth as the soil is replaced in the trench.

c. For foundations deeper than 1 foot follow rates for basement.

d. Exposed soil and wood in bath traps may be treated with a 0.06% emulsion.

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

Crawl Spaces
In crawl spaces vertical barriers may be applied at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to top of footing. Application may be made by rodding and/or trenching. Wear unvented goggles and a respirator approved by the Mine Safety and Health Administration during treatment. If adequate ventilation is not available in the crawl space, see point 'c' below. Treat both sides of the foundation and around all utility services.

a. Rod holes should be spaced to provide a continuous insecticidal barrier. Treatment should not extend below the footing.

b. Trenches need not be wider than 6 inches and not below the footing. The emulsion should be mixed with the soil as it is replaced in the trench.

c. 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.

d. For inaccessible crawl spaces, 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 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.

e. To prevent subterranean Termites from constructing mudtubes from soil to crawl space wood members above, an overall soil treatment of this product may be applied. Remove all cellulose debris before application. Apply 1 gallon of emulsion per 10 square feet.

When treating plenums or crawl spaces, turn off the air circulation system of the structure until application-generated dust or spray mist has settled. Wear respiratory protection when treating crawl spaces.

Note: If treatment method "d" or "e" is used children and pets should be kept out of treated area in crawl space until surface is dry.

Masonry Voids
Treatment may be made through masonry voids such as concrete blocks and veneer to establish a continuous insecticidal barrier at the top of the footing. Apply at the rate of 2 gallons of emulsion per 10 linear feet. Where this treatment is necessary, access holes in the blocks must be drilled below the sill plate and as close as possible to the footing as is practical.

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

Excavation Technique
If treatment must be made in difficult situations 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:

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

b. Treat the soil at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.

c. After the 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.

Attention: When applying Biflex™ TC Termiticide/Insecticide in a confined area, the user should wear unvented goggles and a respirator approved by the Mine Safety and Health Administration during application.

Foam Applications

Biflex™ TC termiticide emulsion, from 0.06 to 0.12 % may be converted to a foam with expansion characteristics from 2 to 40 times.

Localized Application
Foam may be used to treat voids to control or prevent localized infestations of: termites, ants, bees, wasps or other arthropods harboring in voids. Application may be made to voids such as: behind veneers, piers (concrete or wood), chimneys, into rubble and stone foundations, into block voids, structural voids, (i.e. between stud walls), poles, stumps, and wood in crawlspaces using either the foam alone or in combination with liquid emulsion.

Application Under Slabs or to Soil in Crawlspaces to Prevent or Control Termites
Application may be made using Biflex™ TC foam alone or in combination with liquid emulsion. The equivalent of at least 4 gallons (1.28 ounces of Biflex™ TC concentrate) of 0.06% emulsion per 10 linear feet (vertical barrier), or at least 1 gallon (0.32 ounces of Biflex™ TC concentrate) of 0.06% emulsion per 10 square feet (horizontal barrier) must be applied either as emulsion, foam, or a combination of both. For a foam only application, apply Biflex™ TC concentrate in sufficient foam concentration and foam volume to deposit 1.28 ounces of concentrate per 10 linear feet or 0.32 ounces of concentrate per 10 square feet. For example, 2 gallons of 0.12% emulsion generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.06% emulsion per 10 linear feet.

Sand Barrier Installation and Treatment
Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Biflex™ TC treated soil. Fill in cracks and spaces with builder's or play box sand and treat the sand with Biflex™ TC. The sand should be treated as soil following the termiticide rate listed on the Biflex™ TC label.

Retreatment Restrictions: 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. Retreatments should be made as a spot treatment 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.

Specific Pest Control Applications

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

Soil treatment may be made using 0.06 to 0.12% Biflex™ TC emulsion to prevent attack by Termites and Ants.

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

Where soil will not accept the above labeled volume, 1 gallon of 0.12% Biflex™ TC may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with 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.

Precautions:
Do not treat electrically active underground services.

Posts, Poles, and Other Constructions
Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.06% emulsion.

Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom

of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

Treatment of Wood-In-Place for Control of Wood-Infesting Insects: (Localized Areas in Structure) For the control of insects such as Termites, Ants, Carpenter Ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood in and around structures, apply a 0.06% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawl spaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Termite carton nests in trees or building voids may be injected with 0.06% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

Control of Bees and Wasps Indoors: To control Bees, Wasp, Hornets, and Yellow-Jackets apply a 0.06% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat if necessary.

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

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

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

Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in 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, cover all food handling surfaces and cover or remove all food and cooking utensils, or wash thoroughly after treatment. Non-food/feed areas of food/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers) entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning).

Not for use in USDA Meat and Poultry Plants.

Broadcast Treatment of Wood for the Control of Wood-Infesting Insects and Nuisance Pests Outside of Structure
Apply a 0.06% emulsion with a fan spray using a maximum pressure of 25 psi. Treatment should be made just to the point of run-off.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.06% emulsion. To control Bees, Wasps, Hornets, and Yellow-Jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

Pests 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 0.06% to 0.12% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

Attention

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

Firewood is not to be treated.

Use only in well ventilated areas.

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

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

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

Do not treat areas where food is exposed.

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

General Applications Instructions

Biflex™ TC Termiticide/Insecticide formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes including hotels, shopping malls, office buildings, etc. and, outdoor plantscapes, such as around residential dwellings, parks, institutional, recreational, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

Biflex™ TC may be tank-mixed with other products, including insect growth regulators. When tank mixing Biflex™ TC with other products, observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of Biflex™ TC may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. **Note:** If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

APPLICATION RECOMMENDATIONS

Lawn: Apply Biflex™ TC as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low water volume usage, less than 2 gallons/1000 square feet, addition of a non-ionic or silicone based surfactant (0.25% v/v) is recommended, as is immediate irrigation of treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets.

LAWN APPLICATION RATES

Pest	Biflex™ TC	Comments
Ants Armyworms Billbugs Chinch Bugs Crane Flies Crickets Cutworms Earwigs Fall Webworms Fleas (adults, larvae) Grasshoppers Mites Mole Crickets* Sod Webworms Spittlebugs Ticks	0.07-0.15 fl.ozs. per 1000 square feet	*For control of overwintered Mole Crickets apply the lower rate in early Spring. For the control of adult Mole Crickets in late-Summer or early Fall, apply the higher rate. To enhance control a non-ionic surfactant or a silicone based surfactant (0.25% v/v) may be applied as a tank-mix for the control of late Summer or Fall Adult Mole Crickets. To maximize efficacy against sub-surface pests, Biflex™ TC should be applied with a non-ionic or silicone based surfactant (0.25% v/v) in sufficient water to ensure good penetration of spray to soil-thatch matrix. Treated areas should then be irrigated with 0.25 to 0.5 inches of water immediately afterwards paying special attention so that run-off or puddling does not occur. Delay watering or mowing for 24 hours after application to ensure optimum control of Armyworms, Cutworms and Sod Webworms. **For foraging ants.
Imported Fire Ants** Japanese Beetles (adult)	0.07-0.30 fl.ozs. per 1000 square feet	

Do not apply when wind conditions favor downwind drift to nearby water bodies.

Do not apply when wind velocity exceeds 10 miles per hour.

Avoid application when wind gusts approach 10 mph.

Apply using nozzles that provide the largest droplet size compatible with adequate coverage.

Ornamentals and Trees: For ornamental applications, dilute 0.26 to 1.28 fluid ounces of Biflex™ TC Termiticide/Insecticide per 10 gallons of water and apply at the rate of 10 gallons per 4,356 square feet. One gallon of finish spray will treat 435 square feet. If a higher volume application is required for adequate coverage of the plant canopy, Biflex™ TC may be diluted in large volumes of water as long as the maximum label rate (1.28 fluid ounces per 4,356 square feet) is not exceeded. Biflex™ TC may be applied through low volume equipment by dilution with water and providing the maximum label rate (1.28 fluid ounces per 4,356 square feet) is not exceeded.

ORNAMENTAL APPLICATION RATES

Pest	Rate		Comments
	lb ai/ 10 Gallons	fl.oz./ 10 Gallons	
Ants Aphids Bagworms Black Vine Weevil (adults) Brown Soft Scales Broad Mites Budworms California Red Scale (crawlers) Centipedes Clover Mites Crickets Cutworms Earwigs Elm Leaf Beetles Fall Webworms Flea Beetles Fungus Gnats (adults) Grasshoppers Lace Bugs Leafhoppers Leaf feeding Caterpillars Mealybugs Millipedes Mole Crickets* Orchid Weevil Pillbugs Pine Needle Scales (crawlers) Plant Bugs (incl. Lygus spp) San Jose Scales (crawlers) Sowbugs Spiders Spittlebugs Tent Caterpillars Tip Moths Weevils Whiteflies	0.004 to 0.02	0.26 to 1.28	Apply the specified rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage area increases. To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective. To control scale crawlers and twig borers: Treat trunks, stems, and twigs in addition to plant foliage. Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting. Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance. Use sufficient water to obtain uniform coverage. Typical use rates are 10 gallons of spray per 4,356 square feet. To control Black Vine Weevil and Fungus Gnat larvae, apply as a drench at the rate of approximately 8 ounces of finished spray per 6 inch pot.
Citrus Thrips Beet Armyworm Diaprepes (larvae, adult) European Red Mite Leafrollers Spider Mites Thrips Twig Borers	0.006 to 0.02	0.38 to 1.28	
Imported Fire Ants** Japanese Beetles (adult) Leafminers Pecan Leaf Scorch Mite Black Vine Weevil (larvae) Fungus Gnats (larvae)	0.01 to 0.02	0.64 to 1.28	*For control of overwintered Mole Crickets apply the lower rate in early Spring. For the control of adult Mole Crickets in late-Summer or early Fall, apply the higher rate. **For foraging ants.

Pest Control on Outside Surfaces and Around Buildings

For control of ants, including Carpenter Ants and Fire Ants, Armyworms, Bees, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetles, Earwigs, European Cranefflies, Fleas, Flies, Grasshoppers, Hornets, Millipedes, Mosquitoes, Moths, Roaches, including Cockroaches, Scorpions, Sod Webworms, Sowbugs (Pillbugs), spiders including Black Widow Spiders, Springtails, ticks, including Brown Dog Ticks, and Wasps.

Apply Biflex™ TC using a 0.03 to 0.06% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns 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.

For 0.03% emulsion, mix ⅛ fluid oz. of Biflex™ TC per gallon of water. For 0.06% emulsion, mix ¼ fluid oz. Biflex™ TC per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Biflex™ TC. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Repeat treatment as necessary to maintain effectiveness.

Perimeter Treatment: Apply 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 of emulsion per 1000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. House siding may be treated if pests such as Gypsy Moth adults and caterpillars, Boxelder Bugs, Elm Leaf Beetles, Earwigs or Silverfish are present.

For Optimal Control of Ant and Fire Ant Mounds use Biflex™ TC 0.06% emulsion as Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

Application to Home Lawns: Apply Biflex™ TC as a broadcast treatment in 2 to 10 gallons of carrier per 1000 square feet. Use higher volumes to get uniform coverage when treating dense grass foliage.

Attention: Keep children and pets off treated areas following application until the spray has dried.

Distributors Should Sell In Original Packages Only.

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

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

Directions and Recommendations: Follow directions carefully. Timing, method of application, weather conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Revisions:

1. Upgrade "Environmental Hazards" as per PR Notice 93-3.