

PM13 279-3118 10413

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

279-3118

DATE OF ISSUANCE

MAR 24 1993

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Prevail 4 EW Termiticide

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

FMC Corporation
Agricultural Chemical Group
1735 Market Street
Philadelphia, PA 19103

166/5426422
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NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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 sec. 3(c)(7)(A) since you have agree to:

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

2. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase, "EPA Registration No. 279-3118" before you release the product for shipment.

b. Revise the Precautionary Statements as follows:

May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not breathe vapor or spray mist. Avoid contact with skin, eyes or clothing. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

c. Revise the Statement of Practical Treatment as follows:

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

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

IF ON SKIN OR CLOTHING: Remove contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. Get medical attention.

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

[Note: The statement of practical treatment for ocular exposure is not required based on the results of the eye irritation study. However, the statement may be retained for further assistance to the user.]

d. Under Spot Treatment for the Control of Termites, make the following corrections:

- The first sentence should be "For the control of termites..."
- Change "0..25%" to "0.25%."
- The spot treatment directions should be followed by precautionary statements for food/feed and non-food/feed handling areas. Refer to the indoor use directions for Prevail FT (EPA Reg. No. 279-3082).

e. Under "Pre-Construction Subterranean Termite Treatment" change termite "proofing" to "control."

f. Update the Environmental Hazards statement as follows:

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as....

3. The acute inhalation study has been reevaluated and assigned the following categories:

<u>STUDY</u>	<u>STUDY CLASSIFICATION</u>	<u>TOXICITY CATEGORY</u>	<u>MRID NUMBER</u>
Acute Inhalation	Guideline	II	417865-03

4. Submit 5 copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

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

Enclosures

PM 13 279-3118

4013

Revised label per EPA letter 4/2/92.

Corrections & additions are in [BOLD]

Code 1373

Net Contents

PREVAIL 4 EW
Termiticide

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

EPA Reg. No. 279-GRRI

EPA Est. 279-

Active Ingredient:

By Wt.

Cypermethrin

* (+) -alpha-cyano- (3-phenoxyphenyl)methyl	
(+) -cis,trans-3- (2,2-dichloroethenyl) -2,	
2-dimethylcyclopropanecarboxylate.....	43.2%
Inert Ingredients.....	56.8%
Total	100.0%

PREVAIL 4 EW contains 4 pounds active ingredient per gallon.

*Cis/trans ratio: Max. 55% (+) cis and min. 45% (+) trans

U.S. PATENT No. 4,024,163

KEEP OUT OF REACH OF CHILDREN

[WARNING]

See Below for Additional Precautionary Statements.

STATEMENT OF PRACTICAL TREATMENT:

If inhaled: Remove to fresh air. If breathing difficulty or discomfort occurs, obtain medical attention.

If swallowed: Drink plenty of water and induce vomiting by touching the back of the throat with a finger or blunt object or by giving ipecac. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician.

If in eyes: Flush eyes with plenty of water. Obtain medical attention if irritation occurs and persists.

If on skin: [Wash with plenty soap and water. Get medical attention.]

IMC Corporation
Agricultural Chemical Group
Philadelphia, PA 19103

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR 24 1992

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

279-3118

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Revised label per EPA letter 4/2/92.

Note To Physician: Prevail 4 EW is a pyrethroid insecticide containing the active ingredient cypermethrin. Because cypermethrin is lipophilic, do not administer milk, cream or other substances containing vegetable or animal fats, which enhance absorption. Treatment is otherwise symptomatic and supportive.

For Emergency Assistance Call (800)331-3148

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

[Warning

May be fatal if swallowed. Harmful if inhaled, swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.]

Environmental Hazards

This product is extremely toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to any body of water. Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets.

[Chemical and Physical Hazards

Do not use this product in or on electrical equipment due to the possibility of shock hazard.]

SHAKE WELL BEFORE USE

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Pesticide Storage

Do not store below 40°F. Keep out of reach of children. 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.

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Revised label per EPA letter 4/2/92.

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, or commercial clay. 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 of 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.

Returnable/Refillable Sealed Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return to point of purchase or to FMC's authorized location.

GENERAL INFORMATION ON THE USE OF THIS PRODUCT

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.

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Revised label per EPA letter 4/2/92.

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

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: Crawlspace 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.

MIXING: To prepare a 0.25% emulsion mix 64 ounces (2 quarts) of Prevail 4 EW in 99 1/2 gallons of water. To prepare a 0.6% emulsion mix 160 ounces (5 quarts or 1.25 gallons) of Prevail 4 EW in 98.75 gallons of water. For termite control operations requiring smaller volumes, use 2/3 fluid ounces of Prevail 4 EW per gallon of water to achieve 0.25% concentration or 1 2/3 fluid ounces to achieve 0.6% concentration.

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Revised label per EPA letter 4/2/92.

APPLICATION VOLUME: If the soil to be treated (horizontal or vertical barriers and both pre and post application) contains too much moisture to accept the full label termiticide volume, the application volume may be reduced one half but the concentration must be twice the targeted rate.

AFTER TREATMENT: Securely plug all holes drilled in construction elements.

PRE-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.25%-0.6% emulsion of Prevail 4 EW. 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 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 may 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.

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.

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Revised label per EPA letter 4/2/92.

POST-CONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

Use a 0.25% to 0.6% emulsion for post-construction treatment. Up to 0.6% emulsion may be used in critical areas and areas which will be difficult to re-treat. 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 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 0.25% to 0.6% 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. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, pipes, and along both sides of interior footing-supported walls.

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Revised label per EPA letter 4/2/92.

ACCESSIBLE 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. 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 of 1 gallon per 10 square feet.

When treating plenums or crawl spaces, turn off the air circulation system of the structure and exhaust the crawl space air to the outside 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:

- a. Excavation of the crawl space to an accessible space, then treat as an accessible space.
- b. 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.
- c. Apply to the soil surface of the crawl space with a coarse fan spray with pressure not exceeding 25 p.s.i. at the nozzle. Apply at the rate of 1 gallon of emulsion per 10 square feet.

Note: If treatment method "b" or "c" are used children and pets should be kept out of treated area in crawl space until surfaces are dry.

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Revised label per EPA letter 4/2/92.

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 Prevail 4 EW in a confined area, the user should wear unvented goggles and a respirator approved by the Mine Safety and Health Administration during application.

SPECIFIC PEST CONTROL APPLICATIONS

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 0.25% to 0.6% emulsion.

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Revised label per EPA letter 4/2/92.

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. 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.

SPOT TREATMENT FOR THE CONTROL OF TERMITES

For the control of ~~insects such as~~ termites in localized areas of infested wood in and around structures, apply a 0.25% 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. Plastic sheeting must be placed immediately below overhead areas that are spot treated. 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. Spot applications may be made to control visible workers and reproductive forms. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of termites.

To control termites active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.25% emulsion.

Termite carton nests in trees or building voids may be injected with 0.25% to 0.6% 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.

RE-TREATMENT RESTRICTIONS

Re-treatment for subterranean termites should only be made when there is evidence of reinfestation subsequent to the initial treatment, or there has been a disruption of the insecticidal barrier in the soil due to construction, excavation, landscaping, etc.

Re-treatments may be made to critical areas in accordance with application techniques described above. Complete re-treatment of site should be made if any signs of re-infestation are noted. Routine or annual re-treatment of the entire premises should be avoided.

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Revised label per EPA letter 4/2/92.

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.