

PIL 13 279-3092 - JUN 12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 12 1991

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Mr. John F. Wright
 FMC Corporation
 Agricultural Chemical Group
 2000 Market Street
 Philadelphia, PA 19103

Dear Mr. Wright:

Subject: Amendment - Label Revisions
 Flee™ Insecticide
 EPA Reg. No. 279-3092
 Your Application Dated November 30, 1990

The amendment 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. The site lawns must be qualified by stating "home or residential lawns only". Thus wherever the site lawn appears on the label qualify it accordingly.

Submit five 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,

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

Enclosure

CONCURRENCES						
SYMBOL						
SURNAME	MLGA					
DATE	6/11/91					

Revision 10/9/90
Code 1290

Net Contents

FLEE^R INSECTICIDE

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

EPA Reg. No. 279-3092

EPA Est. 279-

Active Ingredients:

*Permethrin**.....	36.8%
Inert Ingredients.....	63.2%
	<u>100.0%</u>

*(3-Phenoxyphenyl) methyl (+)cis-trans 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
**cis/trans ratio: Max. 55% (+) cis and min. 45% (+)trans

Contains 3.2 pounds permethrin per gallon.

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Do not induce vomiting because of aspiration hazard.

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

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

For Emergency Assistance Call (800) 331-3148

See other panels for additional precautionary information

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Caution

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Small text at bottom right, possibly a date or reference number.

JUN 12 1991

Under the...
Fungicide...
amended for the...
and...
279-3092

Environmental Hazards

This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. 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.

This product 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.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTION FOR USE

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

Shake Well Before Using

STORAGE AND DISPOSAL

Pesticide Storage

Store at temperatures above 40°F (5°C)

If separation occurs, and less than entire contents of container are to be used, allow to warm to 55°F (13°C) by room heating only and shake well to make uniform.

If crystals form, warm to room temperature [70°F (21°C)] by room heating only for 24-48 hours and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming container.

Do not use or store near heat, open flame or hot surfaces.

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.

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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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

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 the smoke.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved State and local procedures. Do not cut or weld metal containers.

GENERAL INFORMATION

Flee Insecticide is to be used for residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include, but are not limited to, industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft, schools, nursing homes, hospitals (non-patient areas), restaurants, hotels, and food manufacturing, processing and servicing establishments.

Do not tank mix this product with dichlorvos (DDVP) containing products. Can be tank-mixed with Insect Growth Regulators (IGR's) or pyrethrin-containing products. When mixing Flee with other products, observe all precautions and limitations on the labels of each product. To prepare the emulsion, dilute Flee with water only. To prepare a 0.50% emulsion, mix 1.6 oz (50ml) in 1 gallon of water.

Flee Insecticide is an emulsifiable concentrate to be diluted with water and used to control pests in and around homes and other structures. The pests controlled are listed in the accompanying tables.

Flee Insecticide may be used as a broadcast or spot application to carpeting, wood, lawns and soil (crawl space and perimeter) and as a crack and crevice, injection, or paint-on treatment. Crawlspace are considered inside the structure. Consult tables for specific use instructions.

Attention:

Use only in well ventilated areas. During indoor surface application, do not allow dripping or run-off to occur.

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

Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies. Do not treat areas where food is exposed.

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Remove pets and cover fish bowls (tanks) before spraying.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm. Do not apply to classrooms when in use. Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.

Do not apply to pets, crops, firewood 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.

Pest Control Indoors

Food Handling Establishments: Places other than private residences in which food is held, processed, prepared or served.

Non-Food Areas: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, and storage (after canning or bottling). All areas where insects hide or through which insects may enter should be treated.

Food Areas: Flee Insecticide is not labeled for use in food areas. Do not use in food areas of foodhandling establishments, restaurants or other areas where food is 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 foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Not for use in USDA Meat and Poultry Plants.

Use Flee Insecticide to control pests listed in the following table by application of a 0.50% emulsion.

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PEST

SPECIFIC INSTRUCTIONS

Fleas

Prior to treatment, carpets and furniture should be vacuumed thoroughly and vacuum cleaner bag discarded in an outdoor trash container. Evenly apply a broadcast spray at a rate of 1 gallon/per 800 to 1600 square feet to infested areas such as crawlspaces, rugs, carpets, pet beds and other pet resting areas. Avoid wetting or soaking. For crawlspace applications, the applicator must wear a respirator recommended by NIOSH for filtering spray mists and organic vapors. When treating upholstered furniture take care to treat between and under cushions. Pay particular attention to areas which are frequented by pets. Old pet bedding should be replaced with clean, fresh bedding after treatment. To control the source of flea infestations, pets inhabiting the treated premises should be treated with a flea-control product registered for application to animals.

Centipedes

Ants

Carpenter Ants *

Fire Ants

Bat Bugs

Bed Bugs

Bees and Wasps

Carpenter Bees

Boxelder Bugs

Cockroaches

Asian Cockroaches

Crickets

Flies - such as

Drain Cluster House

Earwigs

Firebrats

Ground Beetles

Leaf Beetles

Millipedes **

Pantry Pests **

Such as:

Flour Beetles,

Indian Meal Moths

Larder Beetles

Pillbugs

Scorpions

Silverfish

Sovbugs

Spiders

Apply crack and crevice, as a pinstream, as a fine/coarse, low pressure spray (20 psi or less), spot application or with a paint brush. Treat where pests are found or normally occur, such as crack and crevices in walls, in and around kitchen cabinets and drawers, along baseboards, behind sinks and around plumbing and other utility installations.

* Ant infested wood may be drilled and injected with Flee Insecticide.

** Remove all utensils, uncovered foodstuffs (or any having original package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with spray solution should be discarded.

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PEST

SPECIFIC INSTRUCTIONS

Carpet Beetles

For the control of carpet beetles, evenly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets, on shelving, and wherever else these insects are seen or suspected. Avoid wetting or soaking.

Brown Dog Ticks

For the control of Brown Dog Ticks, evenly apply the spray to infested areas, such as pet beds and resting quarters, nearby cracks and crevices, along baseboards, windows and doorframes, and areas of floor and floor coverings where these pests may be present. Avoid wetting or soaking. Old bedding should be removed and replaced with clean, fresh bedding after treatment.

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SPECIFIC PEST CONTROL APPLICATIONS

MIXING: Use 1.6 fluid ounces of Flee per gallon of water to achieve 0.5% concentration, or 3.2 fluid ounces to achieve 1.0% concentration.

POST, POLES, AND OTHER CONSTRUCTIONS

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.5% to 1.0% 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. 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, and wood-infesting beetles such as Old House Borer, Powder Post in localized areas of infested wood in and around structures, apply a 0.5% 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 crawlspaces. 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 0.5% to 1.0% 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.

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**BROADCAST TREATMENT OF WOOD FOR THE CONTROL OF WOOD-INFESTING
INSECTS - AND NUISANCE PESTS OUTSIDE OF STRUCTURE**

Apply a 0.5% emulsion with a fan spray using a maximum of 25 psi. Treatment should be made just to the point of runoff.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.5% 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 next openings and contacting as many insects as possible.

PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS:

Apply Flee using a 0.5% emulsion as a residual spray to outside surfaces of building including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns, soil, trunks of woody ornamentals and other areas where pest congregate or have been seen. 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 per 1000 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 Gypsy moth adults and caterpillars, boxelder bugs, elm leaf beetles, earwigs or silverfish are present.

PEST

Ants
Ant Mounds 1
Fire Ants 1
Bark Beetles 3
Bees
Carpenter Bees
Borers 3
Boxelder Bugs 2
Centipedes
Cockroaches
Asian Cockroaches
Crickets
Mole Crickets
Earwigs
Leaf Beetles 2
Firebrats
Fleas 4
Ground Beetles
Gypsy Moths (adults
& Caterpillars) 2
Millipedes
Scorpions
Silverfish
Sowbugs
Spiders
Wasps⁴
Ticks⁴
Flies
such as House Cluster
Carpenter Ants
Chinchbugs⁴
Pill Bugs
Termites

SPECIFIC INSTRUCTIONS

Apply as a pinstream, as a fine/coarse, 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.

1 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.

2 Boxelder Bugs, Leaf Beetles, Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate, to the point of runoff.

3 Borers and Bark Beetles: To prevent borer infestation of trees and woody ornamentals, spray the bark to the point of runoff.

4 Fleas: Mix 1.6-3.2 oz. of Flee in 16 to 100 gallons of water and apply to 4000 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:

Lawn	Sq Ft	Oz of Flee	Gals of Water
Small	2,000	0.8 to 1.6	8 to 50
	4,000	1.6 to 3.2	16 to 100
Medium	6,000	2.4 to 4.8	24 to 150
Large	12,000	4.8 to 9.6	48 to 300
1 Acre	44,000	17.0 to 34.0	176 to 1,100

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 volumes.
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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 injecting 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, goggles, rubber gloves, and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completed dried.

Do not use in food areas handling establishments, restaurants or other areas where food 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.

Non-food areas are areas 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).

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Dealers 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 assumes 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.

Flee and FMC - FMC Trademarks

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