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	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number:	Date of Issuance:
		51036-288	OCT - 1 1997
		Term of Issuance:	Conditional
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration		Name of Pesticide Product:	
		Permethrin 3.2 PCO	
(under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code): Micro Flo Company P.O. Box 5948 Lakeland, FL 33807			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.			
Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.			
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:			
1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.			
2. Make the labeling changes listed below before you release the product for shipment:			
a. Add the phrase "EPA Registration No. 51036-288".			
b. Under Statement of Practical Treatment IF SWALLOWED add "Do not give anything by mouth to an unconscious person. Avoid alcohol."			
Signature of Approving Official:		Date:	

c. Replace Statement of Practical Treatment IF INHALED section with "Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.".

d. Under Statement of Practical Treatment add "Note to Physician: this product contains aromatic hydrocarbons which can produce a sever pneumonitis if aspirated, consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled removal of exposure followed by symptomatic and supportive care.".

e. Under Hazards To Humans delete "Avoid breathing dust" but keep "Avoid breathing vapor or spray mist.".

f. Change "Not for use in USDA Meat and Poultry Plants" to "Not for use in Federally inspected Meat and Poultry Plants.".

g. On page 3 qualify aircraft as follows: aircraft (cargo areas only).

3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosures

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PERMETHRIN 3.2 PCO

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

Active Ingredient:

*Permethrin**	36.8%
Inert Ingredient	63.2%
Total	100.0%

*(3-Phenoxphenyl) methyl (\pm) cis-trans 3-(2,2-dichloroethenyl)2,2-dimethylcyclopropanecarboxyate

**cis/trans ratio: Max. 55% (\pm) cis and Min. 45% (\pm) trans

Contains 3.2 pounds permethrin per gallon.

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.

EPA Reg. No. 51036-~~appl~~ **ETI**

EPA Est. No. 51036-GA-01

Manufactured For:
MICRO FLO COMPANY
P.O. BOX 5948
LAKELAND, FL 33807

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT - 1 1997

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

51036-288

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.

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 washers.

PHYSICAL/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.

Shake Well Before Using.

STORAGE AND DISPOSAL

PESTICIDE STORAGE

Store at temperatures above 40 degrees F (5 degrees C).

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

If crystals form, warm to 70 F (21 C) at room temperature 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 containers. Do not put concentrate or dilute materials 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.

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 the product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Plastic Container: 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.

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

Not for use on plants being grown for sale or other commercial or other commercial uses 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.

PERMETHRIN 3.2 PCO 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 nonfood/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)

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or pyrethrin containing products. When mixing PERMETHRIN 3.2 PCO with other products, observe all precautions and limitations on the labels of each product. To prepare the emulsion, dilute PERMETHRIN 3.2 PCO with water only. To prepare a 0.50% emulsion, mix 1.6 oz (50 ml) in 1 gallon of water.

PERMETHRIN 3.2 PCO 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.

PERMETHRIN 3.2 PCO may be used as a broadcast or spot application to carpeting, wood, home or residential lawns only 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 in institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.

Do not apply to pets, crops, firewood or source of electricity.

Do not allow people or pets on treated surface 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

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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: PERMETHRIN 3.2 PCO is not labeled for use in food areas. Do not use in food areas of food handling 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 PERMETHRIN 3.2 PCO to control pests listed in the following table by application of a 0.5% emulsion.

SPECIFIC PEST CONTROL APPLICATIONS

Mixing: Use 1.6 fluid ounces of PERMETHRIN 3.2 PCO per gallon of water to achieve 0.5% concentration, or 3.2 fluid ounces to achieve 1.0% concentration.

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 0.5% 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.

PESTS	SPECIFIC INSTRUCTIONS
Fleas	<p>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.</p>
<p>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, Sowbugs, Spiders</p>	<p>Apply crack and crevice, as a pinstream, as a find/course, 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 crevice in walls, in and around kitchen cabinets and drawers, along baseboards, behind sinks and around plumbing and other utility installations.</p> <p>*Ant infested wood may be drilled and injected with PERMETHRIN 3.2 PCO.</p> <p>**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 food stuff accidentally contaminated with spray solution should be discarded.</p>
Carpet Beetles	<p>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.</p>

PESTS	SPECIFIC INSTRUCTIONS
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 door frames, 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.

TREATMENT OF WOOD-IN-PLACE OF CONTROL OF WOOD-INFESTED INSECTS (Localized Area in Structure)

For the control of insect 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.

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 cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS

Apply PERMETHRIN 3.2 PCO using a 0.50% 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, home or residential lawns only, soil, trunks of woody ornamentals and other areas where pests 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 dense foliage, mulch, or leaf litter is present. House siding may be treated if pests such as gypsy moth adults and caterpillars, Box elder bugs, elm leaf beetles, earwings or silverfish are present.

PESTS	SPECIFIC INSTRUCTIONS														
Ants 4 Ant Mounds 1,4 Armyworm 4 Fire Ants 1,4 Bark Beetles 3 Bees, Carpenter Bees Borers 3 Boxelder Bugs 2,4 Centipedes Cockroaches 4 Asian Cockroaches Crickets 4 Mole Crickets 4 Earwigs Leaf Beetles 2 Firebrats Fleas 4 Ground Beetles 4 Gypsy Moths (adults & caterpillars) 2 Millipedes Scorpions Silverfish Sod Webworm 4 Sowbugs Spiders 4 Wasps Ticks 4,5 Flies such as House Cluster Carpenter Ants Chinchbugs 4 Pill Bugs Termites	<p>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.</p> <p>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.</p> <p>2 Boxelder bugs, Leaf Beetles, Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate, to the point of runoff.</p> <p>3 Borers and Bark Beetles: To prevent borer infestation of trees and woody ornamentals, spray the bark to the point of runoff.</p> <p>4 Apply PERMETHRIN 3.2 PCO at the rate 0.4 to 0.8 fluid ounces per 1,000 square feet in a volume of water sufficient for uniform coverage such as 3 to 20 gallons. Use the lower rate of knock down existing pests and the higher rate where faster knockdown or greater residual is desired. For Example:</p> <table> <tr> <th>Area (Sq. Ft.)</th><th>PERMETHRIN 3.2 PCO (Fluid oz.)</th></tr> <tr> <td>1,000</td><td>0.4 to 0.8</td></tr> <tr> <td>2,000</td><td>0.8 to 1.6</td></tr> <tr> <td>3,000</td><td>1.2 to 2.4</td></tr> <tr> <td>6,000</td><td>2.4 to 4.8</td></tr> <tr> <td>12,000</td><td>4.8 to 9.6</td></tr> <tr> <td>44,000</td><td>17.0 to 34.0</td></tr> </table> <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 volumes.</p> <p>5 Residual treatment to control Deer (Ixodes datrini), western black-legged tick (Ixodes pacificus) and other Ticks (important vectors for Lyme Disease, Rocky Mountain and Dengue Fever).</p>	Area (Sq. Ft.)	PERMETHRIN 3.2 PCO (Fluid oz.)	1,000	0.4 to 0.8	2,000	0.8 to 1.6	3,000	1.2 to 2.4	6,000	2.4 to 4.8	12,000	4.8 to 9.6	44,000	17.0 to 34.0
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6,000	2.4 to 4.8														
12,000	4.8 to 9.6														
44,000	17.0 to 34.0														

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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 area 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 completely dried.

Do not use in food area handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving area 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).

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: MICRO FLO 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 and 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: Micro Flo'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 use 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.