

PM-13

Reg # 67517-61

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18 FEB 1997

Mr. Joseph E. Dyer  
PM Resources, Inc.  
13001 St. Charles Rock Road  
Bridgeton, MO 63044

Dear Mr. Dyer:

Subject: Label Amendment/ Added Uses  
Permethrin 10% W. B. Multi-Purpose Concentrate  
EPA Registration Number 67517-61  
Your submission dated December 18, 1996

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, and a copy of a stamped label is enclosed for your records.

On page 6 please add a line above "Trees, Shrubs, Roses and Flower Gardens."

Sincerely yours,

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

Enclosure

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**PERMETHRIN 10% W.B.  
MULTI-PURPOSE CONCENTRATE**

- *Water base product*
- *Contains Bitrex*
- *For agricultural / commercial use only.*
- *Broad spectrum multi-use insecticide*
- *Quick knockdown*
- *For use outdoors and in homes, kennels, and non-food areas of commercial buildings, institutions, warehouses, theaters, office buildings, schools, motels, hotels, restaurants, and food/feed processing establishments, hospitals, poultry houses, dairies, cattle barns, milking parlors, horse barns and swine houses.*
- *For control of fleas, brown dog ticks on premises and on dogs*
- *Residually controls fleas and ticks on dogs for 35 days*
- *Aids in control of ticks on dogs for an additional 2 weeks*

**ACTIVE INGREDIENT:**

\*Permethrin: (3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate ..... 10.0%

**INERT INGREDIENTS**..... 90.0%

**TOTAL 100.0%**

\*Cis/trans ratio: Max. 65% (+/-) trans and min. 35% (+/-) cis.  
\*Contains 0.845 lbs. permethrin per gal. (48 grams permethrin per pint)

**KEEP OUT OF REACH OF CHILDREN  
CAUTION  
SEE SIDE/BACK PANEL FOR  
ADDITIONAL PRECAUTIONARY STATEMENTS**

Manufactured for:  
**PM RESOURCES, INC.**  
13001 St. Charles Rock Road  
Bridgeton, MO. 63044

EPA Reg. No. 67517-61  
NET 32 FL. OZ.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

18 FEB 1997

EPA Est. No. 67517-MO-1

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
67517-61

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

**STATEMENT OF PRACTICAL TREATMENT**

- If On Skin:** Wash with plenty of soap and water. Get medical attention.
- If Inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- If Swallowed:** Call a Physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. **IF PERSON IS UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH AND DO NOT INDUCE VOMITING.**
- If In Eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

**NOTE TO PHYSICIAN:** Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to fish and other aquatic organisms. 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 apply when wind speeds exceed 10 mph. Do not contaminate water when disposing of equipment washwaters. Shrimp and crab may be killed if application rates recommended on this label are exceeded. Use with caution where these are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PHYSICAL AND CHEMICAL HAZARDS**

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

**DIRECTIONS FOR USE**

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

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water or oil and blend thoroughly. Do not hold dilutions for more than 24 hours. Keep container sealed when not in use. **PROTECT FROM FREEZING.**

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquaria before spraying.

**Directions for use continued:**

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 food is 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/feed should be covered or removed.

NON FOOD/FEED AREAS of Food/Feed Handling Establishments are areas including (but not limited to) garbage rooms, lavatories, floor drains (to sewers) entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

Do not apply to classrooms when in use. Do not apply this product in patient rooms when occupied or in any rooms when occupied by the elderly or infirm.

Do not allow spray treatment to contaminate pasture land, cropland, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture.

**INDOOR USE AREAS**

- |                             |                               |                      |                |
|-----------------------------|-------------------------------|----------------------|----------------|
| *Aircraft (cargo area only) | *Grain Elevators              | Kennels              | Ships' Holds   |
| *Bakeries                   | *Granaries                    | *Meat Packing Plants | *Supermarkets  |
| *Beverage Plants            | Homes                         | Motels               | Truck Trailers |
| *Canneries                  | Hospitals (non-patient areas) | Office Buildings     | *Warehouses    |
| *Flour Mills                | Hotels                        | Railroad Cars        |                |
| *Food Processing Plants     | Industrial Installations      | Schools              |                |

\* Non-Food / Feed Areas

See Following Tables for Use Directions

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APPLICATIONS SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
<b>AS A SURFACE SPRAY</b> Aircraft, Bakeries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Granaries, Homes, Hospitals, Hotels, Industrial Installations, Kennels, Meat Packing Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ships' Holds, Supermarkets, Truck Trailers, and Warehouses.	Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Fireboats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rod Rust Flour Beetles, Sawtoothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Mealworms, Grain Mites, and Cadellae.	Use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for Silverfish. Spray ant trails, nests and points of entry.	Water	For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%).	1 gallon to 750 square feet of surface	
	Carpet Beetles	Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, closets and infested area of shelving. Repeat treatment as necessary.	Water	For normal infestations, dilute (1) part concentrate in 100 parts water (1.28 ounces per gallon) (8 teaspoonfuls per gallon) (0.1%)		
	Bedbugs	Spray mattresses lightly particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, molding and floors. Allow all treated articles to thoroughly dry before use. Repeat treatment as needed.	Water			
	Fleas and Ticks (Adults and Larvae)	Thoroughly spray infested areas, pet beds, nesting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment.	Water	For maintenance use, dilute (1) part concentrate in 200 parts water (0.64 ounces per gallon) (4 teaspoonfuls per gallon) (0.05%).		
Walls, ceilings, moldings, screens, door frames, beams, light cords, and similar resting places	Mosquitoes, Wasps, Gnats, Skippers	Treat surfaces using coarse wet spray. Spray thoroughly but do not let run off to occur.	Water			
<b>LIVESTOCK SPRAY: Dairy &amp; Beef Cattle, Sheep, Goats, Swine, Horses and Poultry.</b> (For swine, do not ship animals for slaughter within 5 days of last treatment.) (For Dairy Cattle: Spray lactating dairy cows only after milking is complete)	Horn Flies, House Flies, Mosquitoes and Gnats	Apply to wet the hair thoroughly, with particular attention to top line, underline, flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.	Water	For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%)		
	Stable Flies, Horse Flies and Deer Flies	Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, top line and other body areas commonly attacked by the flies. Repeat treatment as needed.	Water	For normal infestations, dilute (1) part concentrate in 200 parts water (0.64 ounces per gallon) (4 teaspoonfuls per gallon) (0.05%).		
	Face Flies	Apply using spray which produces large wetting droplets. Apply to the face of the animal before releasing to pasture. Apply sufficiently to wet the face but not more than 1.5 ounces per animal. Repeat daily as needed.	Water	For maintenance use, dilute (1) part concentrate in 400 parts water (0.32 ounces per gallon) (2 teaspoonfuls per gallon) (0.025%).		
	Lice (including Poultry Lice), Northern Fowl Mites, Mange	Spray roost, walls and nests or cages thoroughly. This should be followed by spraying of the birds with a fine mist. For swine, thoroughly spray animal including ears. Retreat at 14 days for mange. Treat walls and bedding.	Water			1 gal. per 100 birds
	Bedbugs and Mites in Poultry Houses	Spray crevices of roost, poles, cracks in walls and cracks in nests where the bedbugs and mites hide.	Water			
	Sheep "Tick" or ked	Thoroughly wet all parts of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.	Water			

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APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
Dogs	Fleas, Ticks, Lice and Mange Mites (Adults and Larvae)	Thoroughly wet the animal by dipping, sponging or spraying. Allow animal to dry in a warm place without rinsing or toweling. Gives long lasting protection against reinfestation and epibiont at intervals of two to three weeks. <u>ON DOGS: To control fleas, ticks</u> <b>ASA SPRAY</b> - Start spraying diluted product at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray wets thoroughly. Do not spray into eyes and face. Avoid contact with genitalia. Repeat as necessary. Do not use on old, sick or debilitated animals. <b>ASA DIP</b> - Wet the dog with water before treatment. Sponge, dip or pour diluted product on the dog until its fur and skin are thoroughly wet, making sure that the animal's entire body is treated, including the legs and underbody. Do not treat the dog's face. <b>NOTE: NOT RECOMMENDED FOR USE ON PUPPIES LESS THAN FOUR WEEKS OLD.</b>	Water	1 to 1.5 parts concentrate in 128 parts water (1 to 1.5 fl. ounces per gallon).		
Kennels, Dog Houses, Runs and Yards	Fleas, Flies, Ticks, Lice and Mange Mites (Adults and Larvae)	Thoroughly wet pest breeding or resting areas, but do not allow run off to occur. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of application should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays. Do not spray feed, food or water. Repeat as needed but no more often than once every two weeks.				
<b>ASA SPACE SPRAY</b> LIVESTOCK PREMISES: Cattle Barns, Horse Barns, Swine Houses, Kennels, Milking Parlors, Milk Rooms, Dairies and Poultry Houses	Fleas, Mosquitoes, Meal Worms, Darkling Beetles, and Gnats.	Remove animals prior to treatment. Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Ventilate area before entering.	Water	For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%).  For normal infestations, dilute (1) part concentrate in 200 parts water (0.64 ounces per gallon) (4 teaspoonfuls per gallon) (0.05%).  For maintenance use dilute (1) part concentrate in 400 parts water (0.32 ounces/gallon) (0.025%).		
Bakeries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Granaries, Homes Hospitals, Hotels, Industrial Installations, Kennels, Meat Packaging Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ships' Holds, Supermarkets, Truck Trailers, Warehouses.	House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Small Flying Moths, Angoumois Grain Moths and Tobacco Moths.	Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. When using an oil dilution for space spraying, extinguish all flames and pilot lights when applying.  For rapid control of Houseflies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Small Flying Moths, direct spray at an upward angle distributing it uniformly though the entire area at a rate of 1 ounce per 1,000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate areas after treatment and ventilate and sweep up dead insects before reoccupying.  For rapid kill of exposed or accessible stages of other insects named on this label, apply using conventional, mechanical or compressed air equipment (non-thermal) following direction for space spraying.	Oil or Water	For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%).  For normal infestations, dilute (1) part concentrate in 100 parts water (1.28 ounces per gallon) (8 teaspoonfuls per gallon) (0.1%)  For maintenance use, dilute (1) part concentrate in 200 parts water (0.64 ounces per gallon) (4 teaspoonfuls per gallon) (0.05%)	1 ounce per 1000 cubic feet	

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APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
<p><b>OUTDOOR USE AREAS</b> Cornals, Feed Lots, Gardens, Parks, Drive-In Theaters, Drive-In Restaurants, Golf Courses, Zoos, Playgrounds, Recreational Areas, Swine Lots, Urban Areas, Homes</p>	<p>For temporary reduction of annoyance Flies, Mosquitoes, Gnats.</p>	<p>In drive-in restaurants, drive-in theaters, golf courses, urban areas, parks, playgrounds and other recreational areas. Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest. Apply while the air is still and avoid wetting foliage. Application should be made prior to occupancy. Repeat as necessary.</p> <p>In treatment of cornals, feedlots, swine lots and zoos, cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, prevent exposure of reptiles to the product. Repeat as necessary.</p>	Water	Dilute (1) part concentrate in 40 parts water (3.2 fluid ounces per gallon of water) (0.25%)		
<p>Trees, Shrubs, Roses and Flower Gardens.</p> <p>NOTE: NOT for use on plants being grown for sale or other commercial use, or for commercial seed production for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns.</p>	<p>Gypsy Moth Caterpillars and Adults, Adult Japanese Beetles, Eastern and Forest Tent Caterpillars</p>	<p>On Trees and shrubs: Treat trees and shrubs as soon as insects emerge (usually late spring). Treat leaves, branches and tree trunks evenly, making sure to penetrate dense foliage. Repeat application every 7 days as necessary for control.</p> <p>On Roses and in Flower Gardens: Treat plants and flowers as soon as insects appear. Spray plants and flowers making sure to penetrate dense foliage. Repeat applications every 7 days or as necessary for control.</p>		To kill on contact: Dilute (1) part concentrate in 40 parts water (3.2 fluid ounces per gallon of water) (0.25%), apply to insure thorough coverage of upper and lower surfaces.		
<p><b>BARRIER SPRAY</b> Perimeter of Residential Yards, Public Facilities, Paths, and Recreational Areas.</p>	<p>As an aid in reducing Mosquito annoyance. To kill and control biting and non-biting Midges, Deer Flies and other Biting Flies.</p>	<p>Apply when walking at a speed of approximately 2 mph or a swath of 50 feet treating approximately 0.2 acre/ minute.</p>	Oil or Water	1 part concentrate with 1 part suitable oil solvent, or at proportional oil dilutions calculated on the basis of vehicle speed and swath width to achieve the target dose		
<p><b>HOSE-END SPRAYER:</b> To control listed insects, shake well before applying. Connect nozzle to hose; remove cap, insert diptube and screw bottle onto nozzle. Turn on water at the tap. When ready to treat, place finger over the hole on right side of nozzle and the liquid will mix automatically at the proper ratio. Depending on type of sprayer used, follow dilution directions shown on sprayer. Apply to surfaces in dairies, barns, feed lots, stables, poultry houses, swine and livestock housing; to control House Flies, and other manure breeding flies. Also aids in control of Cockroaches, Ants, Spiders, Mosquitoes, Crickets, and Face Flies. Walk and spray at a steady pace. Spray walls and surfaces thoroughly, but do not allow run off to occur. Treat no more than once every two weeks. Do not contaminate animals feed or water by spray.</p>						

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**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal

**Pesticide Storage and Spill Procedures:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**Container Disposal:** 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

**CONTAINERS ONE GALLON AND SMALLER:** Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

**CONTAINERS LARGER THAN ONE GALLON:** 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 by incineration, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Glass Containers- Triple rinse or equivalent, then dispose of in a sanitary landfill or by other approved State and local procedures.

**NOTICE OF WARRANTY**

PM RESOURCES, INC.. MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR OTHERWISE, EXPRESSED OR IMPLIED CONCERNING THIS PRODUCT OR ITS USES WHICH EXTEND BEYOND THE USE OF THE PRODUCT UNDER NORMAL CONDITIONS IN ACCORD WITH THE STATEMENTS MADE ON THIS LABEL