

PM 03

4816-756

6/28/99

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JUN  
JUN 28 1999

Ms. Diana Williams  
AgrEvo Environmental Health  
95 Chestnut Road  
Montvale, NJ 07645

Dear Ms. Williams:

Subject: Amendment - add indoor ornamental plants, outdoor surface of buildings, ornamental trees around the home, home vegetable gardens and homeowner grown fruit and nut trees  
Permanone Insect Killer R4  
EPA Registration No. 4816-756  
Your Submission Dated November 17, 1998

The product referred to above will be acceptable for registration under FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required 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:

- a. On the front panel add for "For Livestock and Premise Use".

- b. Add under Directions For Use "Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes."

- c. Delete the section "Ornamental Plants-Indoors". This requires dilution and is conflicting with using ready to use from original container directions.

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.

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

Sincerely,

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

Enclosure

READ ENTIRE LABEL BEFORE EACH USE  
PET USE APPLIES TO USE ONLY ON DOGS

**AgrEvo**  
**PERMANONE®**  
**INSECT KILLER R4**

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans & Domestic Animals**  
**CAUTION**

- ❖ For Domestic Use Both Indoors and Outdoors
- ❖ Ready-To-Use for Control of Household Pests
- ❖ Dilute for Use on Vegetables and Fruit and Nut Trees
- ❖ For Control of Fleas, Brown Dog Ticks and Lice on Premises and on Dogs
- ❖ Controls Fleas and Ticks on dogs for 14 Days
- ❖ For Control of Pests on Livestock
- ❖ With Country Fresh Fragrance
- ❖ Provides 60-Day (Two Months) Control of Cockroaches
- ❖ Provides 60-Day (Two Months) Control of Fleas
- ❖ Provides 60-Day (Two Months) Control of Stored Product Pests

Wash thoroughly after handling and before smoking or eating. Avoid contamination of feed and foodstuffs. Remove pets and birds and cover fish aquaria before surface applications. Do not use on humans. Do not allow children or pets to contact treated areas until surface is dry.

Do not use on dogs under 12 weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals.

Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

**Environmental Hazards**

This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

**ACTIVE INGREDIENT:**

*Permethrin .....	0.25%
<b>OTHER INGREDIENTS:</b> .....	<b>99.75%</b>
	100.00%

**SHAKE WELL BEFORE USING.**

\*(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate. Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

**INDOOR APPLICATION**

PERMANONE - Registered Trademark of AgrEvo Environmental Health, Inc.

**Household Pests:** For spot application only. Do not use as a space spray indoors.

EPA REG. NO. 4816-756

EPA EST. NO.

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

See Side Panel For Additional Precautions

**SURFACE SPRAYING: FOR 60-DAY (TWO MONTHS) CONTROL OF:** COCKROACHES, WATERBUGS, PALMETTO BUGS, SCORPIONS, MILLIPEDES, CENTIPEDES, SOWBUGS, PILLBUGS, ANTS, SILVERFISH, FIREBRATS, SPIDERS, CRICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, DRUGSTORE BEETLES, MEAL WORMS, GRAIN MITES AND CADELLES: Direct the spray into hiding places, cracks and crevices and behind shelves and drawers. For **Silverfish**, spray bookcases. For **Ants**, spray trails, nests and points of entry.

NET CONTENTS:

AgrEvo Environmental Health  
95 Chestnut Ridge Road  
Montvale, NJ 07645

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

6/28/99

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 4816-756

**TO CONTROL CARPET BEETLES:** Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving. Repeat treatment as needed.

**TO CONTROL BEDBUGS:** Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Repeat treatment as needed.

**TO CONTROL FLEAS (ADULTS AND LARVAE) AND TICKS (ADULTS AND LARVAE):** Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal

quarters following treatment. Repeat treatment as needed. Allow to dry thoroughly before allowing pets to contact treated areas.

**TO CONTROL CLOTHESMOTHS:** Remove any infested articles from storage, brush thoroughly and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

**TO KILL LICE AND LOUSE EGGS:** Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, and then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry-cleaned. Allow all treated particles to dry thoroughly before use.

### Livestock Pests

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

**On Livestock:** To protect cattle (beef and dairy), goats, sheep, hogs and horses from Horn Flies, Face Flies, Houseflies, Mosquitoes and Gnats. Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

**To Control Stable Flies, Horse Flies and Deer Flies:** Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

**To Control Blood-Sucking Lice:** Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

**To Control Poultry Lice:** Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist.

**To Control Bedbugs and Mites in Poultry Houses:** Spray crevices of roost poles, cracks in walls and cracks in nests where the Bedbugs and Mites hide.

### On Dogs, to Control Fleas, Ticks and Lice:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

Start spraying 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 will penetrate to the skin. Make sure spray wets thoroughly, but do not saturate animal. Do not spray into eyes or face. Avoid contact with genitalia. Repeat application every two weeks, if necessary. **DO NOT USE ON CATS OR KITTENS.**

### ORNAMENTAL PLANTS – INDOORS

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of PERMANONE and 12 fluid ounces of water. Spray dilute mixture as directed. Flush sprayer with clean water after each use.

Use sufficient spray to obtain full coverage of all foliage Adjust the amount of spray volume used to the size of the plant(s) being treated. To protect plants in indoor landscaping, spray directly on insects to kill leafrollers, armyworms, cutworms and cabbageworms on chrysanthemums and fungus gnats on velvet plants. Spray as directed above to control aphids, armyworms, corn earworms, fall cankerworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scale crawlers, spider mites, spring cankerworms, whiteflies and exposed thrips on the following plants:

- |                 |                  |                   |
|-----------------|------------------|-------------------|
| Ageratum        | English ivy      | Poinsettia        |
| Ardisia         | Fuschia          | Portulaca         |
| Aster           | Gladiolus        | Pothos            |
| Azalea          | Grape ivy        | Prayer plant      |
| Baby's breathe  | Hypoestes        | Purple passion    |
| Begonia         | Ivy              | Rabbits foot fern |
| birds-next fern | Juniper          | Rose              |
| Bleeding heart  | Lily             | Schefflera        |
| Carnation       | Marigold         | Snadragon         |
| Chrysanthemum   |                  | Snake plant       |
| Coleus          | Palm             | Statice           |
| Crown of thorns | Pansy            | Velvet plant      |
| Cockscomb       | Piperomia        | Verbena           |
|                 | Petunia          | Zinnia            |
| Dracaena        | Philodendron     |                   |
| Dumbcane        | Piggy-back plant |                   |

NO

If application is made indoors, remove infested plants from living area prior to application. Spray plants in an area not likely to be occupied by children or pets (particularly fish). When leaves dry, plants can be returned to original location.

Use with care on ferns, palms and fuschia. As with all plants listed above, especially carnations, chrysanthemums and roses, there exists a wide variety of species and cultivars, and therefore, a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, spray a few plants as described above, wait 24 hours and check for possible injury.

Repeat applications may be necessary to control citrus blackflies on non-bearing citrus and adult Japanese beetles on roses.

### OUTDOOR APPLICATION

**To help control ticks in outdoor activity areas:** Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

Treat a band of vegetation and leaf litter 6 – 10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

**Pests on the Outdoor Surface of Buildings:** To temporarily control *house flies, mosquitoes, cluster flies, gnats and flying moths.* For outdoor use only as an aid in reducing annoyance from these insects.

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of PERMANONE and 12 fluid ounces of water. Using dilute mixture, spray pests on outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate. Repeat as necessary. Flush sprayer with clean water after each use.

### ORNAMENTAL FLOWER GARDENS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

For use on roses, dahlias, asters and other ornamentals to kill Japanese Bees hit by spray as well as Whiteflies, Aphids, Exposed Thrips, Spiders, Red Mites and Leafminers. May be used on plants as a multi-purpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, geraniums, fuschia, geraniums, crassula, grape vines Kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks wandering Jews and zinnias.

Effective when used as directed against Whiteflies, Aphids, Spider and Red Mites, exposed Thrips, Lace Bugs, Japanese Bees, Pavement Ants, Clover Mites and Armyworms.

When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90° F. Contact insects directly whenever possible. Repeat treatment as infestations occur.

**Ornamental Trees Around the Home:** Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of PERMANONE and 12 fluid ounces of water. Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: **Pine Moths, Pine Needle Miners, Pine Beetles and Needle Scales** on pine; Budworms on conifers; **Oakworms** on oak; **Fall Webworms** on cherry, elm and honeysuckle; Aphids on tulip poplar; **Citrus black flies** on non-bearing citrus; **Tussock Moths** on Douglas and grand fir; **Leafminers** on birch; **Elm Leaf Beetles** and **Elm Spanworms** on elms. Flush sprayer with clean water after each use.

**For Home Vegetable Gardens:** Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of PERMANONE and 12 fluid ounces of water. Spray upper and lower leaf surface as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of runoff. Apply no more than 13 ounces of dilute mixture over 100 linear feet of row (13 ounces of diluted mixture per 100 square feet.) Flush sprayer with clean water after each use.

Eggplant	Colorado potato beetles, vegetable leaf miners	Spray plants as needed to ensure uniform coverage. Do not make more than 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish	Imported crucifer weevils	Spray as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.
Leafy Vegetables: amaranth, arugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dick, endive, fennel, lettuce (head & leaf), orach, parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	alfalfa loopers, aphids, beet armyworms, cabbage loopers, corn earworms, cutworms, European corn borers, fall armyworm, green cloverworms, southern armyworms, tobacco budworms, vegetable leaf miners.	Spray every 5 to 10 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons - see Cucurbits		
Potatoes	beet armyworms, Colorado potato beetles, potato beetles, potato leafhoppers, potato aphids, potato tuberworms, cabbage loopers, cutworms, European corn borers, potato psyllids, tarnished plant bugs	Spray plants as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.
Peppers	vegetable leafminers, cabbage loopers, flea beetles, corn earworms, pepper weevils, European corn borers	Spray plants as needed. Do not make more than 8 applications. Can be applied up to 3 days prior to harvest.
Sweet Corn	corn earworms, European corn borers, fall armyworms, southern armyworms	Spray plants every 5 days and when needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter)	beet and southern armyworms, tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado potato beetles, cabbage loopers	Spray plants when needed for uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest.

VEGETABLE	TARGET PESTS	REMARKS
Asparagus (pre-harvest)	cutworms, asparagus beetle	Spray plants as needed to ensure uniform coverage. Do not make more than 4 applications. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	larval stages of asparagus beetle; tarnished plant bugs, lygus bugs and adult Japanese beetles	Treat fern or bush growth after spear harvest when insects are present.
Celery - see leafy vegetables		
Cole Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	beet armyworm, diamond back moth, imported cabbageworm, cabbage aphid, cabbage looper	Apply every 5 days or as needed. Can be applied up to one day prior to harvest. Do not make more than 10 applications on cabbage and 8 applications on the other cole crops.
Corn - see sweet corn		
Cucurbits: Balsam pear (bitter melon), Chinese waxgourd (Chinese preserving melon), Citrus melon, cucumber, Gherkin, Edible gourds, Melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, and Persian melon, pumpkin, summer & winter squash, watermelon	aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhoppers, leafminers, melonworms, pickleworms, plant bugs and squash bugs.	Spray plants as need to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest.

**Home Owner Grown Fruit and Nut Trees:**

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of PERMANONE and 12 fluid ounces of water. Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush sprayer with clean water after each use.

Trees (Fruit or Nut)	Target Pest(s)	Remarks
Almonds	navel orange worms, peach twig borers	Apply when insects appear. Do not make more than 2 applications during the period when the outer hull of the almond has started to open. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.

Apples	plum curculio, redbanded leafrollers, rosyapple aphids, spotted tentiform leafminers, tarnished plant bugs, white apple leafhoppers, oblique-banded leafrollers, green fruitworms.	Apply when insects appear. Repeat as required to maintain control. Do not make more than 3 applications per season. Do not apply after petal fall.
Peaches	lesser peachtree borers, peach twig borers, plum curculio, tarnished plant bugs, green fruit worms, Oriental fruit moths	Apply when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears	pear psylla, green fruitworms and codling moths.	Apply when needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.

In case of **Medical** emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-800-472-0660.

For Product Information Call Toll-Free:  
1-800-331-2867

**Notice:** Buyer assumes all responsibility for safety and use not in accordance with directions.

**Agrevo Environmental Health**  
95 Chestnut Ridge Road  
Montvale, NJ 07645

