

73049-364



5/8/2003

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

4/8

MAY 8 2003

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Janis K. Sharp, Ph.D.
Valent BioSciences Corp.
870 Technology Way
Libertyville, IL 60048

Subject: Amendment Updating First Aid per PR Notice 2001-1
Permanone® 10% H&G Insect Control
EPA Reg. No. 73049-364
Your Submission Dated February 5, 2003

Dear Dr. Sharp:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. In the Hazards to Humans & Domestic Animals section change the Signal word from "CAUTION" to "WARNING".
2. Add the following bee precautions to the Environmental Hazards section:

"This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area."
3. In the directions "For Use On Lawns", you must add a qualifying statement for fire ants indicating that the recommended lawn treatment "aids in control" only. Mound treatment is required for complete control of fire ants. This revision was required by the September 24, 1998 Notice of Registration.
4. In the table "For Application on Vegetables", insert the missing word "Horseradish" in the Vegetable column, so that it reads "Horseradish (foliar application)".

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,

A handwritten signature in cursive script that reads "Susan A. Stanton, for".

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

Enclosure

3/8

PERMANONE® 10% H&G Insect Control

- FOR OUTDOOR RESIDENTIAL/HOMEOWNER USE ONLY
- FOR USE ON PLANTS
- FOR USE OUTDOORS AROUND BUILDINGS, HOMES, IN SMALL
- FLOWER AND VEGETABLE GARDENS AND ON FRUITS, NUT AND
- ORNAMENTAL TREES
- LOW ODOR FORMULA
- ECONOMICAL, 8 OZ. MAKES UP TO 48 GALLONS
- USE ON LAWNS, GARDENS AND FRUIT TREES

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

MAY 8 2003
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
73049-364

ACTIVE INGREDIENT:

Permethrin*	10.0 %
OTHER INGREDIENTS:	<u>90.0 %</u>
	100.0 %

*Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans.

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amplimente.
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

EPA Reg. No. 73049-364

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

WARNING

FIRST AID

- If on skin or clothing::**
 - Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for treatment advice.
- If in eyes:**
 - Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for treatment advice.
- If inhaled:**
 - Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible
 - Call a poison control center or doctor for further treatment advice.
- If swallowed:**
 - Immediately call a poison control center or doctor.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give any liquid to the person.
 - Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

HOT LINE NUMBER : Have the product container or label with you when calling a poison control center or doctor, or going for treatment. 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 1-877-315-9819.

See Side Panel for Additional Precautions

NET CONTENTS:

PRECAUTIONARY STATEMENTS Hazards To Humans & Domestic Animals

CAUTION

Causes skin irritation and moderate eye injury. Do not get on skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes. Harmful if inhaled. Avoid breathing vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. When mixing or applying, wear long sleeved shirt, long pants, socks, shoes and chemical resistant gloves. Do not use food utensils or cups for measuring. Spray with the wind to your back. Do not spray on windy days. Do not allow children or pets to go onto treated area until the treated areas such as grass or soil has dried.

Environmental Hazards

This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate. Apply this product only as specified on this label.

Physical or 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.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes.

HOW TO MIX AND APPLY

Mix the recommended amount of Permanone H&G Insect Control Liquid per gallon (3.79 liters) of water and apply in accordance with the directions below. Where appropriate, measure the area to be treated by measuring the length and width then multiply to determine the square footage of the area. Apply Permanone H&G Insect Control Liquid as a coarse spray with a pump-up or other type of hand-held sprayer. When mixing, fill the sprayer with half of the water first and then measure and add the appropriate amount of Permanone H&G Insect Control Liquid followed by the remaining water. Thorough spray coverage is necessary, but avoid spray run-off.

MEASUREMENT CONVERSION CHART.

- 1 teaspoon = 0.17 fl.oz. = 5 ml.
- 1 ounce = 6 teaspoons = 29.6 ml.

ORNAMENTAL PLANTS

For use on ornamental plants, mix Permanone H&G Insect Control Liquid with water in the following manner:

Permanone 10% H&G Liquid	Water
1 1/3 teaspoon (7 ml)	1 gallon (3.79 L)

NOTE: Do not use more Permanone 10% H&G Liquid than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

CONTACT AND RESIDUAL SPRAY: Apply a diluted spray of Permanone 10% H&G Liquid. Use sufficient spray to obtain full coverage of all foliage.

HOUSE PLANTS: To protect plants in indoor landscaping, spray directly on insects to kill *leafrollers, armyworms, cutworms, cabbage worms on chrysanthemums; fungus gnats* on velvet plants. Spray as directed above to control *aphids, armyworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, spider mites, spring cankerworms, exposed thrips* and *whiteflies* on the following plants:

Ageratum	English Ivy	Poinsettia
Ardisia	Fuchsia	Portulaca
Aster	Gladiolus	Pothos
Azalea	Grape Ivy	Prayer Plant
Baby's breath	Hypoestes	Purple Passion
Begonia	Ivy	Rabbits foot fern
Birds-nest fern	Juniper	Rose
Bleeding heart	Lily	Schefflera
Carnation	Marigold	Snapdragon
Chrysanthemum	Orchid	Snake Plant
Coleus	Palm	Statice
Crown of Thorns	Passiflora	Velvet Plant
Cockscomb	Piperomia	Verbena

- | | | |
|----------|------------------|--------|
| Cyclamen | Petunia | Zinnia |
| Dracaena | Philodendron | |
| Dumbcane | Piggy-back plant | |

Remove infested plants from living areas prior to application. Spray plants outside 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 fuchsia. 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; *Adult Japanese beetles* on roses.

OUTDOOR ORNAMENTALS: Use 1 1/3 teaspoon (7 ml) of Permanone H&G Insect Control Liquid in one gallon of water.

CONTACT AND RESIDUAL SPRAY - Apply a finished spray of Permanone 10% H&G Liquid. Use sufficient spray to obtain full coverage of all foliage. Spray in the late afternoon or evening when the temperature ranges from 50°F to 85°F and when there is little or no wind. Spray at the first indication of insect pests. Repeat treatment at intervals of 4 to 8 days if necessary. Permanone 10% H&G Liquid application can be made up to the day of collection.

Spray as directed above to control *Aphids, Cicadas, Corn Earworms, Fall Cankerworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Bagworms, Spider Mites, Exposed Thrips* and *Whiteflies* on the following plants:

- | | | |
|------------------|-------------|--------------|
| Ageratum | Gladiolus | Pea shrub |
| Arizona Cypress | Gold bells | Petunia |
| Aster | Hypoestes | Philodendron |
| Azalea | Ivy | Poinsettia |
| Begonia | Lilac | Rhododendron |
| Coleus | Marigold | Rose |
| Common ninebark | Mock Orange | Snapdragon |
| Common Snowberry | Nannyberry | Taxus |
| Elm | Orchid | Wax plants |
| Exacum | Palm | Weeping fig |
| Euonymous | Pans | Zinnia |
| English Ivy | | |

FOR ORNAMENTAL TREES GROWN AROUND THE HOME: 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 firs; leafminers on birch; elm leaf beetle and elm spanworms on elms.

TO KILL TENT CATERPILLARS: Application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening when caterpillars have returned to their tents. Mix 2.5 fl oz (74 ml) of this product in one gallon (3.79 L) of water. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours.

TICKS (Lone Star, Bear, Black Legged), FLEAS, CRICKETS and EARWIGS: For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas. Mix 6.5 fl oz (192 ml) of Permanone 10% H&G Liquid in one gallon of water (1 2/3 fl oz or 49 ml per quart) and spray infested areas thoroughly.

FOR USE ON LAWNS

For control of *Ants (including fire ants when mound is treated), Armyworms, Chinch bugs, Crickets, Cutworms, Japanese Beetle Grubs, Grasshoppers, Mole Crickets* and *Sod Webworms*, consult the following chart:

PESTS	DILUTION	REMARKS
Armyworms Mole crickets Cutworms Sod webworm Chinch bugs Japanese beetle grubs	7 tsp/10 gal water/1000 ft ² (35 ml/38 L water/93m ²)	For surface feeders (armyworms, cutworms, chinch bugs, sod webworms), delay watering or mowing for 24 hours. For subsurface feeders (Japanese beetle grubs, mole crickets), irrigate with 1/4 inch of water immediately after application
Crickets Grasshoppers Ants (including Fire Ants)	3 tsp/3 gal water/1000 ft ² (15 ml/11.4 L water/93m ²)	For best results, delay watering or mowing for 24 hours after treatment.

Lawns should be no taller than 3 inches (7.6 cm) at time of application. Slightly more water may be used as long as the amount of product per area is as listed above. For heavy infestations, repeat application after two weeks.

6/8

Also for control of *cutworms* on dichondra and Irish moss. Use as directed above for lawns.

DIRECTIONS FOR USE of Permanone 10% H & G Liquid FOR APPLICATION ON VEGETABLES (For Backyard Vegetable Gardens Only): Prepare Permanone 10% H & G Liquid as directed in the following chart. Use 0.25 gallons of finished spray per 110 square feet or one liter per 10.7 square meters of surface area.

Vegetable	Target Pest(s)	Remarks	Recommended Permanone 10% H&G Liquid Dilution		
			Use Rate	Finished Spray	
			tsp/gal	ml/gal	ml/liter
Asparagus (pre-harvest)	Cutworm, Asparagus Beetle	Apply for uniform coverage as needed. Do not apply more than 4 applications per crop. Can be applied up to 3 days prior to harvest.	1	5	1 1/2
	(post-harvest)	Larval stages of Asparagus Beetle, Tarnished Plant Bug, Lygus Bugs, and Adult Japanese Beetle	Treat ferns or bush growth after spear harvest when insects are present.	1	5
Celery	Vegetable Leaf Miner, Cabbage Looper, Black and Granulate Cutworm, Fall, Beet and Southern Armyworm	Apply every 3-5 days or as needed. Can be applied up to 3 days prior to harvest. Do not make more than 10 applications per season.	2	10	2 3/4
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 8 applications on Cauliflower, Brussels Sprouts and Broccoli and 10 applications on Cabbage.	1	5	1 1/2
Eggplant	Colorado Potato Beetle, Vegetable Leaf Miner	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.	2	10	2 3/4
	(foliar application)	Imported Crucifer Weevil	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.	2	10
Head Lettuce only (Do not use on leaf lettuce)	Cabbage Looper, Alfalfa Looper, Beet Armyworm, Corn Ear Worm and Tobacco Budworm	Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.	2	10	2 3/4
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leafhopper, Potato Flea Beetle, Aster Leafhopper, Potato Aphid, Potato Tuberworm, Cabbage Looper, Cutworms, European Corn Borer, Potato Psyllid, Tarnished Plant Bug	Apply as needed. Do not apply more than 12 applications. Can be applied up to 7 days prior to harvest.	2	10	2 3/4
Peppers	Vegetable Leafminer, Cabbage Looper, Fleabeetle, Corn Earworm, Pepper Weevil, European Corn Borer	Apply as needed, but not more than 8 sprays per season. Can be applied up to 3 days prior to harvest.	2	1	2 3/4

Vegetable	Target Pest(s)	Remarks	Recommended Permanone 10% H&G Liquid Dilution Use Rate Finished Spray		
			tsp/gal	ml/gal	ml/liter
Spinach	Beet Armyworm, Corn Earworm, Cabbage Looper, Cutworms, European Corn Borer, Green Cloverworm and Leafhoppers	Apply for uniform coverage when needed but not more than 7 applications per season. Can be applied up to 7 days prior to harvest.	1	5	1 1/2
Sweet Corn	Corn Earworm, European Corn Borer, Fall Armyworm, Southern Armyworm	Apply every 5 days and when needed but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.	2	10	2 3/4
Tomatoes (Do not apply on cherry tomatoes and varieties yielding less than tomatoes one inch in diameter.)	Beet and Southern Armyworm, Tomato Pinworm, Tomato Fruitworm, Horn Worms, Granulate Cutworms, Colorado Potato Beetle, Cabbage Looper	Apply for uniform coverage when needed but not more than 6 applications per season. Can be applied up to date of harvest	2	10	2 3/4

DIRECTIONS FOR HOMEOWNER - BACKYARD USE of Permanone 10% H & G Liquid FOR TREE FRUIT AND NUT CROPS GROWN AROUND THE HOME

Apply finished spray to trees until foliage is dripping wet.

Trees (Fruit or Nut)	Target Pest(s)	Remarks	Recommended InterCept H&G Dilution Use Rate Finished Spray		
			tsp/gal	ml/gal	ml/liter
Almonds	Navel Orange Worm, Peach Twig Borer	Apply when insects appear. Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.	3	15	4
Apples	Plum Curculio, Redbanded Leafroller, Rosyapple Aphid, Spotted Tentiform Leafminer, Tarnished Plant Bug, White Apple Leafhopper, Oblique-banded Leafroller, Green Fruitworm	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.	3	15	4
Peaches	Lesser Peachtree Borer, Peach Twig Borer, Plum Curculio, Tarnished Plant Bug, Green Fruit Worm, Oriental Fruit Moth	Apply when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.	3	15	4
Pears (dormant through delayed dormant)	Pear Psylla	Apply during the dormant through delayed dormant growth period only. Add if desired, 8 oz. of spray oil to each gallon of Permanone 10% H & G Liquid. Do not make more than 2 applications per season.	3	15	4
(summer)	Pear Psylla, Green Fruitworm, and Codling Moth	Apply when needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.	3	15	4

8/8

STORAGE & DISPOSAL

Storage: Store in an area away from children and pets.

Disposal:

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Valent BioSciences Corporation. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: VALENT BIOSCIENCES CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Valent BioSciences Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Valent BioSciences Corporation disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT VALENT BIOSCIENCES CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

©Valent BioSciences Corporation, 2002

Valent BioSciences Corporation
Environmental Science Division
870 Technology Way, Suite 100
Libertyville, IL 60048
List No. 73049364

02-0177/R1

[Alternate Bullet Points:

1. *Vegetable, Lawn and Garden Spray Concentrate*
2. *It's the least you can do for your plants*
3. *Safe on over 60 varieties of plants*
4. *Controls many garden insect pests*
5. *Controls many ornamental insect pests*
6. *Plant pest control*
7. *Vegetable insect pest control*
8. *Effective control of hard to kill insect pests*
9. *Multi-Purpose insect killer*
10. *Works fast*
11. *Residual action*
12. *Long-lasting*
13. *Quick-acting*
14. *Kills fast-proven to last*
15. *You control the pest, we control the spray}*