

Reg # 51793-104

PM-13

File
1712



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 25 1994

Kim Lanham
RSR Laboratories, Inc.
501 Fifth St.
Bristol, TN 37620

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

**Subject: Label Amendment Submission of 8/11/93 in Response to PR Notice 93-7
EPA Reg. No. 51793-104
Elite Permethrin 13.3% EC for Plants**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

2912

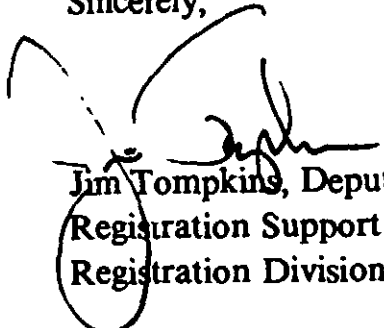
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

3712

ELITE PERMETHRIN 13.3% E.C. FOR PLANTS

For Control of Various Plant Pest Indoors, in Residential Greenhouses and Lathouses, and Interior Landscaping. For Use Outdoors Around Buildings, Homes, in Small Flower and Vegetable Gardens and on Fruit, Nut and Ornamental Trees Grown Around the Home

Recommended for Use by Commercial Applicators

ACTIVE INGREDIENT:

*Permethrin (3-phenoxyphenyl) methyl (±) Cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-carboxylate	13.30%
INERT INGREDIENTS:.....	86.70%
	100.00%

*Cis/trans isomers ratio: Max: 35% (±) cis
Min: 65% (±) trans

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 25 1994

Contains 1 lb/gal (120 g/l) of Permethrin

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

KEEP OUT OF REACH OF CHILDREN

51793-104

WARNING

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**MANUFACTURED BY:
RSR LABORATORIES, INC.
501 FIFTH STREET, BRISTOL, TENNESSEE 37620**

EPA Est. No. 51793-TN-1

EPA Reg. No. 51793-104

NET CONTENTS _____ OZ

DIRECTIONS FOR USE

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

FOR USE ON ORNAMENTAL PLANTS GROWN AROUND THE HOME

Mix water in the following manner:

FINISHED SPRAY	CONCENTRATE	WATER
0.015%	1 Teaspoon (5 ML)	1 Gallon (3.79 L)

Note: Do not use more concentrate than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

CONTACT AND RESIDUAL SPRAY: Apply a finished spray of concentrate. USE SUFFICIENT SPRAY TO OBTAIN COVERAGE OF ALL FOLIAGE. ADJUST SPRAY VOLUME USED TO PLANT SIZE.

INDOORS: To protect plants in residential greenhouses and lathhouses, and for indoor landscaping, spray directly on insects to kill leafrollers, armyworms, cutworms, cabbage worms on chrysanthemums; fungus gnats on velvet plants. Spray as directed above. Also see specific chrysanthemum directions below. Spray as directed above to control aphids, armyworms, corn earworms, fall cankerworms, inchworms, 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
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	PANSY	VELVET PLANT
COCKSCOMB	PIPEROMIA	VERBENA
CYCLAMEN	PETUNIA	ZINNIA
DRACAENA	PHILODENDRON	
DUMBANE	PIGGY-BACK PLANT	

If application is to be made indoors, remove infested plants from living areas 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 fuchsia. As with all plants listed above, especially carnations, chrysanthemums and roses, there exists a wide variety of species and cultivars; therefore, a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, spray a few plants as described above, wait 24 hours, then check for possible injury.

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

FOR THE CONTROL OF LEAFMINERS ON CHRYSANTHEMUMS GROWN IN RESIDENTIAL GREENHOUSES AND LATHHOUSES: To control the insect listed above, apply insecticide as a foliar spray only in accordance with the chart below. DO NOT USE AS SOIL DRENCH. USE SUFFICIENT WATER TO OBTAIN FULL COVERAGE OF ALL FOLIAGE. ADJUST SPRAY VOLUME TO PLANT SIZE. USE SPRAY INTERVALS OF 4 TO 8 DAYS. Timing and frequency of application should be based upon insect populations reaching economic thresholds. Use the longer interval between sprays and lower application rate when population control has already been obtained and pressure is already declining due to initial application, and/or whenever preventive leafminer control is desired.

High rate of application may be required under conditions of very heavy infestations and/or where local difficulty in control of leafminers has been reported. Application can be made to the day of harvest. Treated areas can be reentered after spray has dried.

MIXING INSTRUCTIONS

Prepare final spray solution by adding the required amount of concentrate to the mixing tank which has been prefilled with water to the 1/2 full mark. Add, if desired, the required amount of Plyac. Thereupon under agitation carefully mix while adding water until the spray tank is filled to its full mark or the desired spray volume. Use the final spray during the day of preparation.

CHRYSANTHEMUM SPRAY RECOMMENDATIONS

	Target Pest	Lbs. A.I./100 Gals of Spray For Ground Equipment	No. of Pints of Concentrate Per 100 Gals of Spray
Chrysan- themums	Vegetable Leafminers	Normal 0.125	1 pint
		High 0.4	3.2 pints

OUTDOORS: Use one teaspoon in one gallon of water.

CONTACT AND RESIDUAL SPRAY: Apply a finished spray of concentrate. USE SUFFICIENT SPRAY TO OBTAIN FULL COVERAGE OF ALL FOLIAGE. ADJUST SPRAY VOLUME USED TO PLANT SIZE.

Spray in the late afternoon or evening when the temperature ranges from 50°F to 75°F and when there is little or no wind. Spray at the first indication of insect pests. On those plants that will flower during season, the spray schedule should be completed before blossom formation. Repeat as necessary; use intervals of 4 to 8 days. 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
 ARIZONA CYPRESS
 ASTER
 AZALEA
 BEGONIA
 COLEUS
 COMMON NINEBARK
 COMMON SNOWBERRY
 ELM
 EXACUM
 EUONYMOUS
 ENGLISH IVY

GLADIOLUS
 GOLD BELLS
 HYPOESTES
 IVY
 LILAC
 MARIGOLD
 MOCK ORANGE
 NANNYBERRY
 ORCHID
 PALM
 PANSY

PEA SHRUB
 PETUNIA
 PHILODENDRON
 POINSETTIA
 RHODODENDRON
 ROSE
 SNAPDRAGON
 TAXUS
 WAX PLANTS
 WEeping FIG
 ZINNIA

FOR ORNAMENTAL TREES GROWN AROUND THE HOME
 For Ground Application Only

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 fluid ounces (59 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.

CLUSTER FLIES

Apply this product undiluted to the outside surfaces of buildings at the rate of 2.5 fluid ounces/1000 square feet (74 ml/93 sq m). Use apparatus which delivers a strong mist spray of small particle size. Hold nozzle about three feet (or 1 meter) from surface to be treated. Apply when wind velocity is less than 2 mph (3.2 kph) to avoid drift.

FOR USE ON LAWNS

For control of ants, armyworms, chinch bugs, crickets, cutworms, fleas, ticks, Japanese beetle grubs, grasshoppers, mole crickets and sod webworms, consult the following chart.

PESTS

DILUTION

armyworms	5 tsp/10 gal water/1000 sq ft (25 ml/38 L water/93 sq m)
cutworms	
chinch bugs	
Japanese beetle grubs	
mole crickets	
sod webworms	2 tsp/3 gal water/1000 sq ft (10 ml/11.4 L water/93 sq m)
ticks	
crickets	
grasshoppers	
ants	
fleas	

Lawns should be no taller than 3 inches (7.6 cm) at the 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. Also, for control of cutworms on dichondra and Irish moss. Use as directed above for lawns

FOR GROUND APPLICATION ON VEGETABLES
For Backyard Vegetable Gardens Only

Use 0.25 gallons of finished spray per 110 square feet or one liter per 10.7 square meter of surface

VEGETABLE	TARGET PEST	REMARKS	DILUTION USE RATE
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.	4/5 tsp/gal 1 ml/L
Asparagus (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.	4/5 tsp/gal 1 ml/L

VEGETABLE	TARGET PEST	REMARKS	DILUTION USE RATE
Celery	Vegetable Leaf Miner, Cabbage Looper, Black and Granulated 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 session.	1.5 tsp/gal
			2 ml/L
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, Brussel Sprouts and Broccoli and 10 applications on Cabbage.	4/5 tsp/gal
			1 ml/L
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.	1.5 tsp/gal
			2 ml/L
Horseradish (Spring preplant dip)	Imported Crucifer Weevil	Soak sets for 30 minutes in 0.1% solution and air dry before planting.	6.5 tsp/gal
			8.4 ml/L
Horseradish (Foliar application)	Imported Crucifer Weevil	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.	1.5 tsp/gal
			2 ml/L
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.	1.5 tsp/gal
			2 ml/L

VEGETABLE	TARGET PEST	REMARKS	DILUTION USE RATE
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leafhopper, Potato Flea Beetle, Aster Leafhopper, 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.	1.5 tsp/gal 2 ml/L
Peppers	Vegetable Leaf Miner, Cabbage Looper, Flea- beetle, 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.	1.5 tsp/gal 2 ml/L
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.	4.5 tsp/gal 1 ml/L
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.	1.5 tsp/gal 2 ml/L

VEGETABLE	TARGET PEST	REMARKS	DILUTION USE RATE
Tomatoes (Florida only). Only for application to tomatoes grown in Florida for final marketing as fresh tomatoes. Do not apply on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter.	Beets and Southern Armyworm, Tomato Fruitworm, Horn Worms, Granulate Cutworms, Colorado Potato Beetle, Cabbage Looper, Tomato Pinworm	Apply for uniform coverage when needed but not more than 6 applications per season. Can be applied up to date of harvest.	1.5 tsp/gal 2 ml/L

FOR FRUIT AND NUT CROPS GROWN AROUND THE HOME
For Ground Application Only

TREES (FRUIT OR NUT)	TARGET PEST	REMARKS	DILUTION USE RATE
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.	2.2 tsp/gal 3 ml/L
Apples	Plum Curculio, Redbanded Leafroller, Rosy-apple aphid, Spotted Tentiform Leafminer, Tarnished Plant Bug, White Apple Leafhopper, Obliquebanded 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.	2.2 tsp/gal 3 ml/L

TREES (FRUIT OR NUT)	TARGET PEST	REMARKS	DILUTION USE RATE
Peaches	Lesser Peach- tree 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.	2.2 tsp/gal 3 ml/L
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 end use spray. Do not make more than 2 applic- ations per season.	2.2 tsp/gal 3 ml/L
Pears (summer)	Pear Psylla, Green Fruit- worm, 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.	2.2 tsp/gal 3 ml/L

STORAGE AND DISPOSAL

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

Storage: Do not store at temperature below 40°F (4.5°C). If this material has been exposed to temperatures below 40°F (4.5°C), there may be precipitation. Check for crystallization. If evident, warm to 80°F (26.5°C) and thoroughly mix before using. DO NOT USE NEAR OPEN FLAME. Store product in original container in a locked storage area.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide Environment Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: For containers one gallon and under: Do not reuse empty container. Wrap and put in trash. For containers over one gallon: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state or local authorities.

**PRECAUTIONARY STATEMENT
CAUTION
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes eye irritation. Do not get in eyes. Avoid contact with skin or clothing. Harmful if swallowed. Avoid breathing vapor. Wash thoroughly after handling. Do not use in food handling area.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Apply this product only as specified on this label.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. Flash point minimum 105°F (49°C).

STATEMENT OF PRACTICAL TREATMENT

- If Swallowed:** Call a physician or Poison Control Center. Do not induce vomiting. This product contains aromatic petroleum solvent. Aspiration may be a hazard.
- If Inhaled:** Remove person to fresh air. Apply artificial respiration if indicated.
- If In Eyes:** Flush with plenty of water. Get medical attention.
- If On Skin:** Wash with soap and plenty of water. Get medical attention if irritation persists.