

PM 15 3314-96

10/14

MIXING INSTRUCTIONS: Prepare the final spray solution by adding the required amount of Colothrin EC to the mixing tank which has been pre-filled with water to the 1/2 Full Mark. Add the desired required amount of Phyac. Thereupon under agitation carefully mix while adding water until the spray tank is filled to the Full Mark or to the desired spray volume. Use final spray during the day of preparation.

Crop	Target Pest	Lbs. a 1/100 gals of spray for ground equipment	Number of pints of Colothrin EC per 100 gallons of spray
Ornamentals	Vegetable Leafminers	Normal 0.125 High 0.4	1 pint 3.2 pints

INDOORS: USE ONE TEASPOON IN ONE GALLON OF WATER

CONTACT AND RESIDUAL SPRAY: Apply a finished spray of Colothrin EC. 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 the 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, leafminers, leafhoppers, mealybugs, bagworms, spider mites, sucking thrips and whiteflies on the following plants: Agave, Arizona Cypress, Aster, Azalea, Begonia, Coleus, Common Nettle, Common Snowberry, Elm, Eucaim, Eucalyptus, English Ivy, Gladiolus, Gold bells, Hydrangea, Ivy, Lilac, Mangold, Mock Orange, Nannyberry, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Poinsettia, Rhododendron, Rose, Snapdragon, Tansy, Wax plants, Weeping Fig, Yucca.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING: 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 areas.

STATEMENT OF PRACTICAL TREATMENT
 If swallowed: Call a physician or Poison Control Center. Do not induce vomiting. This product contains aromatic petroleum solvents. Aspirin may be a hazard.
 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.

ENVIRONMENTAL HAZARDS: This product is extremely toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Keep out of lakes, streams or ponds, tidal marshes or estuaries. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS: Do not use or store near heat or open flame. Flashpoint: minimum of 105°F (40°C).

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

STORAGE AND DISPOSAL: **STORAGE:** Do not store at temperatures 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 OPEN FLAME.** Store product in original container in a locked storage area.
CONTAINER DISPOSAL: Do not reuse empty container. Wrap container and put in trash.

COLOTHRIN

INSECTICIDE

FOR CONTROL OF VARIOUS PLANT PESTS INDOORS, IN GREENHOUSES, LATHHOUSES AND INTERIOR LANDSCAPING, FOR USE OUTDOORS AROUND BUILDINGS, HOMES, IN SMALL FLOWER AND VEGETABLE GARDENS, AND ON FRUIT, NUT AND ORNAMENTAL TREES

ACTIVE INGREDIENTS
 • Permethrin (3-phenoxyphenyl) dimethyl ether 3-(2,2-dichloroethoxy) 85.76%
 • 2,2-dimethyl-3-cyanoethyl propyl carbonate 14.24%

INERT INGREDIENTS

*Custom formulated min. 35% (g) and max. 65% (g) active
 U.S. Patent No. 4,024,103

PRECAUTIONAL CONSUMPTION: Use only as directed. Do not use on food crops. Do not use on ornamentals if you are allergic to chrysanthemums. DO NOT USE IF YOU COVER EYES. Do not use the product until the label has been fully understood.

KEEP OUT OF REACH OF CHILDREN
WARNING
 SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

LOT NO. EPA REG NO 3314-96 EPA EST 3314-FL-1 COLONIAL PRODUCTS, INC.
 NET CONTENTS: 64 oz. 1630 Tenth Avenue North • Lake Worth, FL 33461

DIRECTIONS FOR USE (Continued)
 FOR USE ON ORNAMENTAL PLANTS: MIX COLOTHRIN EC WITH WATER IN THE FOLLOWING MANNER:

FINISHED SPRAY	COLOTHRIN	WATER
0.015%	1 teaspoon (5 ml)	1 gallon (3.78 l)

*NOTE: Do not use more Colothrin EC 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 Emulsifiable Concentrate. USE SUFFICIENT SPRAY TO OBTAIN FULL COVERAGE OF ALL FOLIAGE. ADJUST SPRAY VOLUME USED TO PLANT SIZE.

INDOORS: Top-dress plants in 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. Sprays directed above to control aphids, armyworms, corn earworms, fall cankerworms, inchworms, Japanese beetles, leafminers, leafhoppers, thrips, bugs, scales, spider mites, spring cankerworms, exposed citrus, and whiteflies on the following plants: Agave, Arizona, Aster, Azalea, Baby's Breath, Begonia, Bird's-nest Fern, Bleeding Heart, Carnation, Chrysanthemum, Coleus, Crown of Thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English Ivy, Fuscia, Gladiolus, Grape Ivy, Hydrangea, Ivy, Juniper, Lily, Mangold, Orchid, Palm, Pansy, Peperomia, Petunia, Philodendron, Piggy-back Plant, Poinsettia, Portulaca, Pottery Prayer Plant, Purple Passion, Rabbit's-foot Fern, Holly, Schellflower, Snapdragon, Snake Plant, Starce, Velvet Plant, Verbena, Yucca.

If application is to be made indoors, remove affected plants from living area prior to application. Spray plants in an area not likely to be occupied by children or pets (especially by fish). When leaves dry, plants can be returned to original location. Use with care on ferns, palms and ficus. As with all plants listed above, especially carnations, chrysanthemums and roses, there exists a wide variety of species and cultivars, and there are 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.

COLOTHRIN INSECTICIDE
FOR THE CONTROL OF LEAFMINERS ON CHRYSANTHEMUMS GROWN IN GREENHOUSES AND LATHHOUSES

To control the insect listed above, apply 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 applications 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 day of harvest. Treated areas can be reentered after spray has dried.

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FOR ORNAMENTAL TREES GROWN AROUND THE HOME
FOR GROUND APPLICATION ONLY

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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; Caterpillars 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 first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Mix 2 fl oz (59 ml) of this product in one gal (3.78 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 fl oz/1000 sq ft (74 ml/93m²). 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 armyworms, chinch bugs, and cutworms use 5 tsp/10 gal water/1000 ft². For ants, crickets, grasshoppers, and webworms use 2 tsp/3 gal water/1900 ft². 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 heavily infested areas, repeat application in two weeks. Also for control of cutworms on dichondra and Irish moss. Use as directed above for lawns.

DIRECTIONS FOR USE FOR GROUND APPLICATION ON VEGETABLES:
For Backyard Vegetable Gardens Only

Prepare spray mix as directed in following chart.

Use 0.25 gallons of finished spray per 100 square feet or one liter per 10.7 m² of surface area.

Vegetable	Target Pest(s)	Remarks	Recommended Debon Use Rate Finished Spray tsp/gal
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
(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
Ceery	Vegetable Leaf Miner Cabbage Looper, Black & 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.	1.5
Cole Crops Broccoli Brussels Sprouts Cabbage Cauliflower	Beet armyworm, Diamond Black 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 13 applications on Cabbage.	4.5
Eggplant	Colorado Potato Beetle, Vegetable Leafminer	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.	1.5

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DIRECTIONS FOR USE FOR GROUND APPLICATION ON VEGETABLES
 For Backyard Vegetable Gardens Only

Vegetable	Target Pests	Remarks	Recommended Dilution Use Rate Finished Spray 1oz/gal
Horse radish (Spring pre-plant Dis.)	Imported Chlorer Weevil	Rinse sets for 30 minutes in 0.1% solution and air dry before planting	65
(Folar Application)	Imported Chlorer Weevil	Apply as needed. Do not exceed 3 foliar applica- tions. Can be applied up to 22 days prior to harvest.	15
Head Lettuce only (do not use on Leaf Lettuce)	Cabbage Flea Aster Leaf Beet Armyworm Corn Ear Worm and	Apply up to 10 days before harvest. Do not make more than 10 applica- tions per season. Can be applied up to 1 day prior to harvest.	15
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leaf Hopper, 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 ap- plications. Can be applied up to 7 days prior to harvest.	15
Peppers	Vegetable Leafminer, Cabbage Looper, Flea- beetle, Corn Earworm, Pepper Weevil, Euro- pean Corn Borer	Apply as needed, but not more than 8 sprays per season. Can be applied up to 3 days prior to harvest.	15

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		of spray on 10 each gallon of Colothrin End Use Spray. Do not make more than 2 applications per season.	22
(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.	22

COLOTHRIN

INSECTICIDE

DIRECTIONS FOR USE

ACTIVE INGREDIENTS

Permethrin (1 phenylphenyl) methyl (2) C-5
trans-3 (2,2-dichloroethyl) 2,2
dimethylcyclopropanecarboxylate

13.5% = =
86.5% = =
100.0% = =

INERT INGREDIENTS

Contains solvents (max. 35% (±) CS and max. 65% (±) TCE)
- U.S. Patent No. 4,074,161

KEEP OUT OF REACH OF CHILDREN
WARNING
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

EPA REG. NO. 3314-N

EPA EST. 3314-1-1



1830 Teren Ave. N., Lake Worth, FL 33461 (M) (305) 565-2112

DIRECTIONS FOR HOME OWNER - BACKYARD USE FOR TREE FRUIT AND NUT CROPS GROWN AROUND THE HOME
For Ground Application Only

Trees (Fruit or Nut)	Target	Remarks	Recommended Dilution Use Rate Finished Spray (oz/gal)
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.	22
Apples	Plum Curculio, Red-banded Leafroller, Roseapple 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.	22
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.	22

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DIRECTIONS FOR USE FOR GROUND APPLICATION ON VEGETABLES:
For Backyard Vegetable Gardens Only

Vegetable	Target Pest(s)	Remarks	Recommended Dilution Use Rate Finished Spray (oz/gal)
Sprach	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.	45
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.	15
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.	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.	15

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ACCEPTED
SEP 21
Under the Federal Trademark Dilution Act and
Federal Trade Commission Act, as amended, for the
purpose of registration under
EPA Reg. No. 3314-94

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