

BONIDE
TOTAL PEST CONTROL
CONCENTRATE (OUTDOOR FORMULA)

PROVIDES LONG LASTING CONTROL OF PROBLEM INSECTS,
SUCH AS, COLORADO POTATO BEETLE, CUTWORMS, LEAF MINERS, BORERS,
MITES, CRICKETS. FOR USE OUTDOORS AROUND BUILDINGS, HOMES, IN
SMALL FLOWER AND VEGETABLE GARDENS, AND ON FRUIT, NUT AND
ORNAMENTAL TREES.

EPA Reg. No. 4-349

EPA Est. No. 4-NY-1

ACTIVE INGREDIENTS:

Permethrin (CAS 52645-53-1).....	13.30% w/w
OTHER INGREDIENTS:.....	<u>86.70%</u>
Total.....	100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

See back panel for additional
precautionary statements and
statement of practical treatment

ACCEPTED
JAN 29 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 4-349

NET CONTENTS: _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS--WARNING

Causes eye irritation. Do not get in eyes. Wear goggles, face shield or safety glasses when handling the undiluted material. Avoid contact with skin or clothing. Harmful if swallowed. Avoid breathing vapor. Wash thoroughly after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Get medical attention.
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 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 disposing of equipment washwaters. Do not apply directly to water. 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.

* For use only on home lawns, flower and vegetable gardens, fruit, nut and ornamental trees.

DIRECTIONS FOR USE ON VEGETABLES: For backyard vegetable gardens only. Prepare spray mix as directed in following chart. Use 1 qt.. of finished spray per 110 square feet (or 1 gal./440 sq. ft.) of surface area.

How to Mix and Apply

Step #1: Determine size of spraying job. For lawns and vegetables, measure the area to be sprayed. For all other applications, apply as a thorough cover spray. Make applications when insects first appear. Repeat applications as needed or as noted in the rate chart.

Step #2: Use clean sprayer. Carefully measure and mix the amount of product and water as suggested in the rate chart.

Step #3: Spray as directed in rate chart. Thorough coverage is important. Flush sprayer with clean water after each use.

1 fl. oz. = 6 tsp. or 2 tbsp.

8 fl. oz. = 1/2 pt. or 1 cup

1 fl. oz. in 3 gallons of water = 2 teaspoons in 1 gallon of water or 8 fl. oz. in 24 gallons.

Vegetable	Target Pest(s)	Remarks	Recommended Dilution Rate tsp./qt. of water
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 tsp./5 qts.
(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 tsp./5 qts.
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.	1 1/2 tsp./4 qts.
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 to Cabbage.	1 tsp./5 qts.
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 1/2 tsp./4 qts.
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 1/2 tsp./4 qts.
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 1/2 tsp./4 qts.
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.	1 1/2 tsp./4 qts.
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.	1 1/2 tsp./4 qts.
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 tsp./5 qts.
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 1/2 tsp./4 qts.
Trees (Fruit or Nut)	Target Pest(s)	Remarks	Recommended Dilution Rate tsp./qt. of water
Almonds	Navel Orange Worm Peach Twig Borer	Apply when insects appear. Do not make more than 2 applications during hili split and 5 applications per season. Can be applied up to 7 days prior to harvest.	2 3/4 tsp./5 qts.
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.	2 3/4 tsp./5 qts.
Peaches	Lesser Peachtree Borer, Peach Twig Borer, Plum Curculio, Tarnished Plant Bug, Green Fruitworm, 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 3/4 tsp./5 qts.
Pears (dormant through delayed dormant)	Pear Psylla	Apply during the dormant through delayed dormant growth period only. Add if desired 8 oz. of Bonide All Season's oil to each gallon of TOTAL Pest Control (outdoor formula) end use spray. Do not make more than 2 applications per season.	2 3/4 tsp./5 qts.
(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.	2 3/4 tsp./5 qts.

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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. Mix 2 3/4 tsp. per 5 qts. water.

To Kill Tent Caterpillars: Application should be made when caterpillars are young and tents are first noticed. For results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Mix 23 fl. oz. of this product in one gallon 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.

FOR USE ON HOME LAWNS

For control of ants (including fire ants), armyworms, chinch bugs, crickets, cutworms, Japanese beetle grubs, grasshoppers, mole crickets and sod webworms, consult the following chart:

PESTS	DILUTION
armyworms cutworms chinch bugs Japanese beetle grubs mole crickets sod webworm	5 tsp./10 gal. water/1000 sq. ft.
crickets grasshoppers ants (including fire ants)	2 tsp./3 gal. water/1000 sq. ft.

Lawn should be no taller than 3 inches 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.

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

Keep children and pets off treated areas until lawn has dried following the application.

FOR USE ON ORNAMENTAL PLANTS OUTDOORS

Contact and Residual Spray - Use sufficient spray to obtain full coverage of all foliage. Adjust spray volume used to plant size.

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To use, mix 1 teaspoon of Total Pest Control Concentrate with one gallon of water.

Spray in the late afternoon or evening, when the temperature ranges from 50 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, 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, Hypoesies, Ivy, Lilac, Marigold, Mock Orange, Nannyberry, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Poinsettia, Rhododendron, Rose, Snapdragon, Taxus, Wax plants, Weeping Fig, Zinnia.

OUTDOOR PEST CONTROL

Pest on Outside Surfaces of Buildings: Use this product to control ants, clover mites, crickets, earwigs, millipedes and sowbugs (pillbugs) on the outside surfaces of buildings. To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet where pests are and may find entrance. Also, apply as a residual spray to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps, and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

HOUSE FLIES, MOSQUITOES, CLUSTER FLIES, GNATS, FLYING MOTHS
OUTDOORS: For outdoor use only as an aid in reducing annoyance from these insects. Spray outside surfaces of screens, doors, window frames or whenever 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.

ANTS, DEER AND LONE STAR TICKS, CRICKETS, FLEAS, AND EARWIGS,
OUTDOORS: For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas, spray infected areas thoroughly. For ants, thoroughly wet hills and runways. Repeat application as infestations warrant and as reinfestations occur.

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WASPS, HORNETS, YELLOW JACKETS, BEES OUTDOORS: Application should be made in late evening when insects are at rest. Aim spray at nest openings in ground, bushes, and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

For contact and residual spray, mix with water in the following manner:

Finished Spray	Insect Control (Fluid Ounces)	Water
0.25%	2 2/3 (5 1/2 tbsps.)	1 gallon
0.25%	2/3 (4 tbsps.)	1 quart
0.50%	5 1/2 (10 3/4 tbsps.)	1 gallon
0.50%	1 1/2 (8 tbsps.)	1 quart

For heavy infestations, use the 0.50% dilution. For lighter infestations and for maintenance proposes, use the 0.25% dilution. One gallon of finished spry is sufficient to treat 1580 linear feet with a 6 inch spry band.

TO CONTROL FIRE ANTS: Dilute 2 tablespoons of this product in 1 gallon of water. Apply 1 gallon of solution as a gentle rain to each fire ant mound using sprinkler can. Thoroughly wet the mound and surrounding area to a 4 foot diameter. For best results, apply in cool weather, 65-80 F, or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. If possible, treat all mounds in the vicinity and treat all colonies which may not as yet have constructed a mound. Larger quantities of solution can be prepared for multiple mound treatments. Equipment to deliver the diluted product as a gentle rain at the rate of 1 gallon per mound is still required. Do not use equipment that produces a pressurized spray as pressurized sprays may disturb fire ants and cause migration, reducing product effectiveness.

STORAGE AND DISPOSAL

STORAGE: Do not store at temperatures below 40 F (4.5 C). Store product in original container in a locked storage area.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved State and local procedures.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

WARRANTY STATEMENT

Our recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.