

239-2364

03/08/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. Charles Levey  
The Scotts Company d/b/a The Ortho Group  
14111 Scottslawn Rd.  
Marysville, OH 43041

MAR - 8 2002

Dear Mr. Levey:

Subject: Amendment - Comply with 2000 Diazinon MOA;  
Delete indoor use;  
Update First Aid per PR Notice 2001-1; and  
Update CSF/replacement diazinon source  
ORTHO Diazinon Insect Spray  
EPA Registration Number 239-2364  
Your submission dated September 20, 2001  
and your associated FAX of October 10, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable 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 before you release the product for shipment bearing the amended labeling:
  - a. Please note that under the 2000 diazinon MOA (and as shown on the labeling for the replacement diazinon source MUP you have indicated), home and garden emulsifiable concentrate products may not be sold in container sizes larger than 1 quart. The submitted label shows unacceptably larger sizes of 40 and 64 fluid ounces.
  - b. Slightly revise the limitation appearing under Directions For Use so that it reads "Reformulation or repackaging of this product is prohibited."
  - c. Also, on the Lock'N Spray label, please align the percentages in the ingredients statement.
  - d. In the Home Lawns directions for the Lock'N Spray label, in item "2" of the "Amount to Use" section, revise "'450 square feed" to read "450 square feet".

- 3. Submit three (3) copies of your final printed labeling before you release the product for shipment.
- 4. Comply with all applicable provisions of the 2000 Memorandum of Agreement Regarding Pesticide Products Containing Diazinon (i.e., the Diazinon MOA). In accordance with the Diazinon MOA you have requested the following revisions to the conditions of registration for this diazinon product with outdoor non-agricultural (i.e., home and garden) uses:
  - a. You have requested under section 6(f) of FIFRA that this registration be voluntarily canceled on a date not later than December 31, 2004.
  - b. You may not manufacture, label, or release for shipment this product after June 30, 2003.
  - c. You may not sell or distribute this product after August 31, 2003.
  - d. The registration for this product shall expire and be canceled on December 31, 2004.
  - e. You will send to every person who directly purchases this product (i.e., to every seller) a notification of Product Recovery Program to be conducted by Syngenta and Makhteshim after December 31, 2004.

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.

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

The Basic Confidential Statement of Formula (CSF) dated September 21, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

3/28

DIAZINON INSECT SPRAY

I. LIQUID CONCENTRATE PRODUCT

BONUS 25% MORE 40 FL OZ AT REGULAR 32 FL OZ PRICE  
[ICOM] OUTDOOR USE ONLY

ORTHO® Diazinon Insect Spray [ABN DIAZINON PLUS® Insect Spray]  
Makes up to 96 Gallons Diluted Spray [qt size]  
Makes up to an extra 24 GAL of spray (40 oz size)  
Concentrate

This product must not be used on golf courses and sod farms. [This will appear in the upper 1/3 of the label]

FOR OUTDOOR USE ON HOME LAWNS AND HOME GARDENS ONLY  
DO NOT USE INSIDE THE HOME.  
FOR ROSES, FLOWERS, SHRUBS, FRUITS, VEGETABLES, HOME LAWNS & NUISANCE PESTS.

CONTROLS GARDEN INSECTS

Aphids, Cucumber Beetles, Cabbageworms, Codling Moth, Whiteflies

CONTROLS LAWN INSECTS

Ants, Fleas, Sod Webworms, Brown Dog Ticks, White Grubs  
Kills White Grubs  
Kills Black Widow Spiders

Contains ORTHOX® Wetting Agent for More Effective Coverage  
NEW / NOW MEASURING CAP & POUR SPOUT  
IMPROVED PACKAGE  
NEW / NOW WITH MEASURING CAP  
EASY POUR SPOUT  
FAST & EASY MEASURING CAP

...  
with COMMENTS  
in EPA Letter Dated:  
MAR - 8 2002  
...  
239-2364

Active Ingredient

Diazinon.....25%  
\*Other Ingredients.....75%  
\*Contains aromatic petroleum distillates

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Back Panel Booklet for Additional Precautionary Statements

NET CONTENTS 32 fl oz (1 qt) 946 ml  
NET CONTENTS 16 fl oz (1 pt) 473 ml  
NET CONTENTS 64 fl oz (1/2 gal) 1.89 L  
NET CONTENTS 40 fl oz (1 qt 8 fl oz) 1.18 L

4/28

Diazinon Plus Insect Spray controls a wide range of lawn and garden insect pests. For use on roses, flowers, trees, shrubs, lawns, nuisance pests, fruits, nuts, vegetables, and melons. May be applied with an ORTHO® DIAL 'n SPRAY®, hose-end, or tank type sprayer. Contains ORTHOX® which makes your spray spread more evenly on smooth, rough or waxy plant surfaces. Improved package with pour spout and measuring cap for fast, easy, accurate measuring. For the complete listing of all pests and plants, please read entire label.

**[PICTURES OF BUGS] CONTROLS GARDEN INSECTS**

Aphids, Cucumber Beetles, Cabbageworms, Codling Moth, Whiteflies

**CONTROLS LAWN INSECTS**

Ants, Fleas, Sod Webworms, Brown Dog Ticks, White Grubs


Kills White Grubs

Kills Black Widow Spiders

**DO NOT USE INSIDE THE HOME. DO NOT USE ON HUMANS OR ANIMALS.**

*[THE FOLLOWING COPY IS FOR FIX-A-FORM BOOKLET TYPE LABELS WHICH CONSUMERS CAN OPEN, READ, AND RESEAL EASILY AT RETAIL AS WELL AS AT TIME OF USE]*

Peel open for use directions and further information.

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. See additional precautionary statements and use directions inside booklet.  PULL HERE TO OPEN LABEL. PRESS TO RESEAL.

 Medical Information call 1-800-225-2883

Product Information call 1-800-225-2883

Manufactured for

The ORTHO Group

P.O. Box 1749

Columbus, OH 43216

EPA Reg. No. 239-2364

EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>

Superscript is first letter of lot number

Made in USA

UPC

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging this product is prohibited.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS. Be sure the plants, use areas, and pests you want to treat are listed on the label before you spray.

MEASURING CAP: To open: squeeze cap sides while unscrewing. Fill cap to appropriate level for fast, easy, accurate measuring. Refer to label / table below for measuring instructions. Close cap tightly after use - no need to rinse.

Level 1 = 1 teaspoon (tsp)

Level 2 = 1 Tablespoon (Tbs) = 3 tsp = 1/2 fl oz

Level 3 = 1 fl oz (2 Tbs)

Level 4 = 2 fl oz (4 Tbs)

*[The following headings are for use if there is enough label space to have text in tables]*

PESTS

PLANTS

DILUTION RATE

SPRAYER TYPE

PRODUCT TO MEASURE

AREA TO TREAT

ROSES, FLOWERS, SHRUBS & SHADE TREES

DILUTION RATE: [MEASURING CAP INSTRUCTIONS]: Fill cap to level 1 two times (2 tsp) per gallon of water. To apply with an ORTHO® DIAL 'n SPRAY® Hose-End Sprayer: Pour product into sprayer jar. Do not add water. Set dial to 2 tsp and spray. *[Or]*: Use 2 tsp (1/3 fl oz) per gallon of water.

HOW TO USE: Spray when pests first appear. Spray plant to wet leaves and branches to dripping point. Repeat as needed and as directed to maintain control.

PESTS: To Control: Aphids, Apple and Thorn Skeletonizers, Bagworms, Bean Beetles, Cabbageworms, Codling Moth, Cucumber Beetles, Cutworms, Dipterous Leafminers\* (such as Arborvitae, Azalea, Birch, Boxwood, Holly, and Oak), European Pine Shoot Moth, Flea Beetles, Hemlock Chermes, Hemlock Woolly Adelgid, Holly Bud Moth, Leafhoppers, Leafminers, Lacebugs, Leafrollers, Mealybugs, Mites (such as Carnation Bud, Carnation Shoot, Clover, Cyclamen, European Red, Privet, and Two-spotted), Oak Loopers, Obscure Root Weevil, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers (such as Cottoncushion, Euonymus, Lecanium, Pine Needle, Pit, San Jose and Soft), Spider Mites, Tent Caterpillars, Thrips, Webworms (such as Cofoneaster, Fall, Juniper and Mimosa), and Whiteflies. \*NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

PLANTS / FOR: Azaleas, Birch, Boxwood, Camellias, Chrysanthemums, Carnations, Gladioli, Hawthorne, Hemlock, Holly, Lilac, Locust, Maple, Pine, Pyracantha, Rhododendrons, Spruce, Sycamore, Willow. *Combination Spray with Fungicide on Roses: ORTHO FUNGINEX® Rose Disease Control may be mixed with this product*

when listed insect(s) and disease(s) are found on roses. Follow directions and precautions on both labels.

Note: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, Gardenia, and Orchids since plant injury may occur.

To control Mediterranean Fruit Fly (larvae): Apply 3 fl oz per 12 gallons to cover 1000 sq ft of soil beneath host plants listed above. Drench all soil within dripline. Make 3 applications at 14 to 16 day intervals as needed.

HOME LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS: Measure the area to be sprayed. Calculate square feet by multiplying length by width. For example, 20' x 25' equals 500 sq ft. Spray the proper amount of product as directed. Thorough coverage is important for best results.

DILUTION RATE / PRODUCT TO MEASURE: [MEASURING CAP INSTRUCTIONS]: Fill cap to level 1 one and one half times (1 1/2 tsp) per gallon of water. Spray evenly over 42 sq ft. To apply with an ORTHO® DIAL 'n SPRAY® Hose-End sprayer: Fill cap to level 3 three times (3 oz) for every 500 sq ft of lawn area [or fill cap to level 4 plus 1 cap to level 3 for every 500 sq ft of lawn area]. Spray evenly over measured area. [For other hose-end sprayers] [Or]: Apply 3 fl oz (6 Tbs) per 12 gallons of water to cover 500 sq ft (1-1/2 tsp per gallon to cover 42 sq ft).

HOW TO USE; Thoroughly wet grass a few hours before applying. PESTS: Controls: Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetle, Digger Wasps, Earwigs, European Crane Fly (larvae), Fleas, Frit Flies, Grubs (Chafer, Japanese Beetle, May Beetle, Southern Chafer) Hyperodes Weevils, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, Rhodesgrass Scales, Sowbugs (Pillbugs), Sod Webworms, Springtails (Collembola).

For Brown Dog Ticks, spray grass and shrubbery particularly near the house. To control: Digger Wasps, apply at dusk when wasps are not active. To control: Frit Flies, mow grass and water thoroughly before treatment, but delay application until grass is dry. Apply when crawlers first emerge. For Lawn Billbugs, Grubs, Southern Chafer (White Grubs), Hyperodes Weevils, and Mole Crickets water lawn thoroughly after treatment. Notes: Consult your local Agricultural Extension Service for proper time to treat. For Mole Crickets, apply in May or June when pests are small.

FIRE ANTS -- To Aid in Control: HOME LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS: DILUTION RATE: [MEASURING CAP INSTRUCTIONS]: Fill cap to level 3 (1 fl oz). Add to 1 gallon of water. [Or] Apply 1 fl oz (2 Tbs) in 1 gallon of water as a drench to mounds. HOW TO USE: For best results, drench mounds when temperatures are 65 to 80°F or in morning or evening. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Treat new mounds as they appear.

NUISANCE PESTS OUTDOORS: DILUTION RATE: [MEASURING CAP INSTRUCTIONS]: Fill cap to level 4 (2 fl oz) per gallon of water. [Or]: Apply 2 fl oz

per gallon of water.

HOW TO USE: Spray a 5 ft band of soil around the house next to the foundation to a height of 2 to 3 ft. Do not apply to vinyl siding as staining may occur.

Thoroughly spray walks, firewood piles, garbage cans, tree trunks, and into cracks and other places where insects can hide. Do not treat plants (other than tree trunks) at this rate. Do not burn sprayed firewood within 2 weeks following treatment.

PESTS: CONTROLS: Ants, Box Elder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Scorpions, Sowbugs (Pillbugs), Spiders (including Black Widow Spiders), Springtails (Collembola).

#### VEGETABLES & MELONS FOLIAR SPRAY

DILUTION RATE: [MEASURING CAP INSTRUCTIONS]: Fill cap to level 1 two times (2 tsp) per gallon of water to cover 350 sq. ft. of garden areas. To apply with an ORTHO® DIAL 'n SPRAY® Hose-End Sprayer: Fill cap to level 1 two times (2 tsp) for every 350 sq. ft. of home garden to be sprayed. Do not add water. Set dial to 2 tsp and spray evenly over vegetable plants in the measured area. [Or]: Use 2 tsp (1/3 fl oz) per gallon of water to cover 350 sq. ft. of garden area. HOW TO USE; Spray when listed pests first appear. Wet the plants just to the dripping point. Repeat sprays 7 to 10 days apart, if needed, but do not apply more than 3 times per season for Beans and Peas, or more than 5 times per season for all other listed vegetables. Numbers in ( ) indicate days required between last application and harvest. Do not feed treated plants to animals. Do not treat food crops grown in the greenhouse.

VEGETABLES AND MELONS -- Foliar Spray: Beans (lima, pole, and snap) + , fresh only (7), Broccoli (7) Cabbage (21), Cantaloupes (3), Carrots (14), Casabas (3), Cauliflower (7), Chinese Broccoli (10), Chinese Cabbage (Bok Choy and Napa) (10), Collards (10), Crenshaws (3), Cucumber (7), Endive (Escarole) (14), Honeydew (3), Kale (10), Lettuce (14) Muskmelons (3), Onions (14) (Bulb and Green), Parsnips (14), Peas + , fresh only (7), Peppers (5), Persian Melons (3), Potatoes (35), Radishes (14), Spinach (14), Summer Squash (7), Sweet Corn (7), Tomatoes (1), Turnips (14), Turnip Tops (14), Watermelons (3), and Winter Squash (3). Do not apply more than 3 gallons of water per 1000 sq ft of home vegetable garden.

+NOTE: Do not use on dried bean or pea varieties. To protect bees, do not apply to bean or pea foliage if the crop or weeds in the treatment area are in bloom. Do not apply to corn during the pollen shed period. To Control: Aphids, Armyworms, Colorado Potato Beetle, Cucumber Beetles, Diamond Back Moth (larvae), Dipterous Leafminers\*\*, Flea Beetles, Grasshoppers, Imported Cabbage Worms, Leafhoppers, Mexican Bean Beetle, Mites, Spider Mites, Onion Thrips, Thrips, Vinegar Fly, Whiteflies. \*\*NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

VEGETABLES - BEFORE PLANTING / To Control Cutworms: Cabbage, Carrots,

Lettuce, Lima Beans, Peas, Pole Beans, Red (Table) Beets, Snap Beans, Sweet Corn, Tomatoes, Radishes, Turnips and Turnip Tops. To Control Wireworms: Cabbage, Carrots, Lettuce, Peas, Snap Beans, Sweet Corn, Tomatoes. Do not use on dried bean or pea varieties.

**DILUTION RATE:** [MEASURING CAP INSTRUCTIONS]: Fill cap to level 4 (2 fl oz). Add to 1 gallon of water. Spray evenly over 350 sq ft of garden area. To apply with an ORTHO® DIAL 'n SPRAY® Hose-End Sprayer: Fill cap to level 4 for every 350 sq ft of home garden area. Set dial to 2 fl oz and spray evenly over measured area. [Or]: Apply 2 fl oz (4 Tbs) in 1 gallon water to 350 sq ft. **HOW TO USE:** Immediately mix into soil to the depth of 2 to 3 inches for Surface Cutworms, 3 to 6 inches for Subterranean Cutworms, and 4 to 8 inches for Wireworms.

To Control Mole Crickets: Carrots, Lima Beans, Pole Beans, Red (Table) Beets, Snap Beans, Peas, Sweet Corn. 1 to 2 days before planting, apply 4 tsp in a minimum of 1 gallon of water to 350 sq ft. Fill cap to level 2 PLUS one cap measure to level 1 per gallon of water (4 tsp). [Or fill cap to level 1 four times. Add to 1 gallon of water]. Spray evenly over 350 sq ft. Immediately mix into the soil to a depth of 1 to 2 inches.

To Control Root Maggots: Cabbage. Apply 2 fl oz (4 Tbs) in a minimum of 1 gallon of water to 350 sq ft. *[Fill cap to level 4 (2 fl oz). Add to 1 gallon of water. Spray evenly over 350 sq ft].* Immediately mix into the soil to a depth of 2 to 3 inches. *For Disease Control on Fruits and Vegetables apply ORTHO Multi-Purpose Fungicide DACONIL 2787®. Follow label directions.*

#### HOME FRUITS, NUTS, GRAPES AND BERRIES

**To Control:** Aphids (such as Black Cherry, Leafcurl Plum, Mealy Plum, and Thistle), Blueberry maggots, Cherry Fruit Flies, Cherry Fruitworms, Cranberry Fruitworms, Dried Fruit Beetles, Fruitworms (Maggots), Fruit Tree Leafrollers, Grape Berry Moth, Grape Leafrollers, Leafhoppers, Mealybugs, Mites (such as Brown, European Red, Two-Spotted Spider, and Cherry Rust), Raspberry Fruitworms, Raspberry Sawfly, Scale Crawlers (such as Olive, Parlatoria, San Jose, Walnut, Italian Pear, and Frosted), Spider Mites (see Mites), Strawberry Leafroller, Tentiform Leafminers, Thrips, Twig Borers, Walnut Caterpillars.

**DILUTION RATE:** [MEASURING CAP]: Fill cap to level 1 two times (2 tsp) per gallon of water. [Or]: Use 2 tsp (1/3 fl oz) per gallon of water.

HOME FRUIT TREES: Apricots (21), Cherries (21), Nectarines (21), Peaches (21), Plums (21), Prunes (21): Start spraying after blooming. Spray when listed pests first appear. Wet the foliage to the dripping point, but do not apply more than 4 gallons of spray per 500 sq ft of home orchard. Do not apply more than 3 times per season. Repeat sprays for cherries, plums and prunes 7 to 10 days apart, for apricots, nectarines and peaches, 14 days apart. Note: To protect bees, do not apply to fruit trees when trees or substantial numbers of weeds around the trees are in bloom.



HOME NUT TREES: WALNUTS CA only (45): Start spraying after blooming. Spray when listed pests first appear. Wet the foliage to the dripping point, but do not apply more than 4 gallons of spray per 500 sq. ft. of home orchard.

HOME VINEYARD OR BERRY PATCH: Grapes (28), Strawberries (5): Do not apply more than 3 gallons of water per 500 sq ft of grape vineyard or strawberry patch. Do not apply more than 5 times per season for grapes or 3 times per season for strawberries. Repeat sprays 7 to 10 days apart. Blackberries, Boysenberries, Dewberries, Loganberries, and Raspberries, CA, OR, WA only (7): Do not apply more than 5 gallons of water per 500 sq ft of caneberry patch. Do not apply more than 5 times per season. Repeat sprays 14 days apart. To Control: Aphids (such as Black Cherry, Leafcurl Plum, Mealy Plum, and Thistle), Cherry Fruit Flies, Dried Fruit Beetles [except California], Fruitworms (Maggots), Fruit Tree Leafrollers, Grape Berry Moth, Grape Leafhoppers, Leafhoppers, Mealybugs, Mites (such as Brown, Two-Spotted Spider, and Cherry Rust), Raspberry Sawfly, Scale Crawlers (such as Olive, San Jose, Walnut, Italian Pear, and Frosted), Spider Mites, Strawberry Leafroller, Tentiform Leafminers, Thrips, Twig Borers, Walnut Caterpillars.

#### STORAGE AND DISPOSAL

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not store near heat or open flame. Store in an area inaccessible to children and pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING. Do not store diluted spray. Keep tightly capped.

DISPOSAL: Tighten cap and securely wrap partially filled or empty container in several layers of newspaper and discard in trash. Do not reuse empty container.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Wear a long sleeved shirt and long legged pants when spraying. Spray with the wind to your back. Do not spray on windy days. If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again. **DO NOT USE INSIDE THE HOME.** Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. *Child/Pet Icon* Do not allow children or pets to go onto a treated area until the treated areas, such as grass or soil, has dried. Do not contaminate ornamental fish ponds. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides. *[The preceding statement is optional if the package has the measuring cap - mandatory if it does not]*

FIRST AID: If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not

give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physicians: Emergency Information call 1-800-454-2333. This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillates which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

**ENVIRONMENTAL HAZARDS:** This pesticide is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl.

Avoid overlapping of sprays. For lawns, where watering is recommended in the directions, or if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product, however stop watering before puddling occurs. Keep out of water. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This pesticide is highly toxic to bees exposed to direct treatment or to 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.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**NOTICE:** Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

[ICON]: Medical Information call 1-800-225-2883

Product Information call 1-800-225-2883

*DACONIL 2787® Registered trademark of ISK Biotech Corp.*

Manufactured for  
The ORTHO Group

11/28

P.O. Box 1749  
Columbus, OH 43216  
EPA Reg. No. 239-2364  
EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA  
UPC

THE FOLLOWING EXAMPLES ARE TABLE HEADINGS AND LAYOUT WE HOPE TO BE ABLE TO USE. THIS WILL DEPEND ON THE AMOUNT OF LABEL SPACE AVAILABLE. Text in tables would be from registered copy.

ROSES, FLOWERS, SHRUBS & SHADE TREES

Spray plant to wet leaves and branches to dripping point when pests first appear. Repeat spray only as needed to maintain control

PLANTS	PESTS	DILUTION RATE
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..... Text to come from registered label copy

LAWNS

Measure the area to be sprayed. Calculate square feet by multiplying length by width. For example, 20' x 25' equals 500 sq ft. Spray the proper amount of product as directed. Thorough coverage is important for best results.

PESTS	DILUTION RATE / PRODUCT TO MEASURE	AREA TO TREAT
..... text to come from registered label copy		

13/28

2. READY-SPRAY PRODUCT

(ICON) OUTDOOR USE ONLY

*ABN: ORTHO Diazinon PLUS Insect Spray*  
Makes 96 Gallons of Spray

This product must NOT be used on golf courses or sod farms.  
For outdoor use on home lawns and home gardens only.

FOR ROSES, FLOWERS, SHRUBS, TREES, FRUITS, VEGETABLES, LAWNS, GARDENS & AROUND HOUSE  
FOUNDATIONS  
CONTROLS GARDEN INSECTS AND LAWN INSECTS

CONCENTRATE  
MULTI-PURPOSE BUG/PEST INSECT KILLER  
NO MIXING - NO MEASURE - NO MESS  
READY-TO-SPRAY  
JUST ATTACH TO HOSE AND SPRAY

Active Ingredient  
Diazinon.....25%  
\*Other Ingredients.....75%

\*Contains aromatic petroleum distillates

KEEP OUT OF REACH OF CHILDREN  
CAUTION

See Back Panel Booklet for Additional Precautionary Statements

NET CONTENTS 32 fl oz (1 qt) 946 ml

14/28

INSTRUCTIONS  
OPEN HERE

*ORTHO Diazinon Insect Spray* controls a wide range of bugs/pests/insects in home lawns and gardens. This product may be all you need to stop insects on roses, listed flowers, trees, shrubs, lawns, vegetables, fruits, nuts, and around house foundations.

Built-in sprayer head accurately mixes product with water. Simply attach to hose and spray. Treats 5,000 sq ft of lawn. Makes 96 gallons of spray.

**CONTROLS GARDEN INSECTS**

Aphids, Cucumber Beetles, Cabbageworms, Codling Moth, Whiteflies and many others.

**CONTROLS LAWN INSECTS**

Ants, Fleas, Sod Webworms, Brown Dog Ticks, White Grubs

Kills Black Widow Spiders

**DO NOT USE ON HUMANS OR ANIMALS.**

*[THE FOLLOWING COPY IS FOR FIX-A-FORM BOOKLET TYPE LABELS WHICH CONSUMERS CAN OPEN, READ, AND RESEAL EASILY AT RETAIL AS WELL AS AT TIME OF USE]*

Peel open for use directions and further information.

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. See additional precautionary statements and use directions inside booklet.

**[ICON]:** Medical Information call 1-800-225-2883  
Product Information call 1-800-225-2883

Manufactured for  
The ORTHO Group  
P.O. Box 1749  
Columbus, OH 43216  
EPA Reg. No. 239-2364  
EPA Est. 239-1A-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging this product is prohibited.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND**

DIRECTIONS. Be sure the plants, use areas, and pests you want to treat are listed on the label before you spray.

HOW TO USE

A. PRODUCT CONTROL VALVE

Shake well. Connect spray nozzle to garden hose. Turn the green on/off valve to off. Turn on water at faucet. Use a coin or key to rotate the small green product control valve located near front of nozzle forward (clockwise) to open.

To begin spraying, point nozzle in the direction you want to spray. Turn the Green valve to on. Water mixes with the product to deliver the proper amount of spray per gallon.

To stop spraying, turn green valve to off, rotate small product control valve back to closed. Turn off water at faucet. To relieve pressure, turn on/off valve to on before removing nozzle from hose.

B. PRODUCT CONTROL BUTTON

- Connect sprayer to hose. Be sure on/off switch is set to "OFF".
- Turn on water.
- Push BUTTON to open position. (You may need to align flat edge of button to ridge).
- To begin spraying, point nozzle in the direction you want to spray. Turn on/off switch forward 1/4 turn (counterclockwise) until it stops.
- To stop spraying, turn on/off switch back to "OFF". Push button to closed position. Turn of water.
- To relieve water pressure, turn switch on until water spurts out and slows to a drip. Turn switch back to "OFF". Disconnect from garden hose and store in a safe place.

ROSES, FLOWERS, SHRUBS & SHADE TREES

PLANTS: Arbovitae, Azaleas, Birch, Boxwood, Camellias, Chrysanthemums, Carnations, Crab Apples, Dogwood, Douglas Fir, Elm, Euonymus, Gladioli, Hawthorn, Hemlock, Holly, Juniper, Lilac, Lilies, Locust, Maple, Marigolds, Mimosa, Oak, Ornamental Plum, Pine, Poplar, Pyracantha, Rhododendrons, Roses, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, Yew.

DO NOT use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, Gardenia, and Orchids since plant injury may occur.

PESTS CONTROLLED

On Roses, Flowers, Shrubs & Shade Trees

Aphids, Apple and Thorn Skeletonizers, Bagworms, Bean Beetles, Cabbageworms, Codling Moth, Cucumber Beetles, Cutworms, Dipterous Leafminers (such as Arbovitae, Azalea, Birch, Boxwood, Holly, and Oak), European Pine Shoot Moth, Flea Beetles, Hemlock Chermes, Hemlock Woolly Adelgid, Holly Bud Moth, Leafhoppers, Leafminers, Lacebugs, Leafrollers, Mealybugs, Mites (such as Carnation Bud, Carnation Shoot, Clover, Cyclamen, European Red, Privet, and Two-spotted Spider), Oak Loopers, Obscure Root Weevil, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers (such as Cottonycushion, Euonymus, Lecanium, Pine Needle, Pit, San Jose and Soft), Spider

Mites (see Mites), Tent Caterpillars, Thrips, Webworms (such as Cotoneaster, Fall, Juniper and Mimosa), and Whiteflies.

Spray when listed pests first appear. Spray plant to wet leaves and branches to dripping point. Repeat as needed to maintain control.

**HOME LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS**

Be sure to read the ENVIRONMENTAL HAZARDS section before you begin.

**PESTS CONTROLLED**

**On Home Lawns**

**SURFACE PESTS:** Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetle, Digger Wasps, Earwigs, Fleas, Frit Flies, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, Rhodesgrass Scales, Sowbugs (Pillbugs), Sod Webworms, Springtails (Collembola).

**SUBSURFACE PESTS:** European Crane Fly (Larvae), Grubs (Japanese Beetle, May Beetle, European Chafer, Southern Chafer), Mole Crickets, Hyperodes Weevil.

**TWO EASY STEPS TO APPLY**

1. Measure the area to be sprayed. Calculate square feet by multiplying length by width (walking man icon).
2. Spray evenly over lawn area. 3 oz. treats 500 sq ft.

**When to Water**

For insects/bugs/pests that live above or near the soil surface, such as Ants, Clover Mites, Crickets, Sod Webworms, Chinch Bugs and Sowbugs, thoroughly water the lawn a few hours before applying. (See above for complete list of lawn surface pests.)

For insects/bugs/pests that live in the soil, such as European Crane Fly (larvae), Grubs, Hyperodes Weevils, and Mole Crickets, water the lawn after you spray to soak/carry the insecticide down into the soil.

**SPECIAL INSTRUCTIONS**

Consult your local Agricultural Extension Service for proper time to treat lawn pests such as Grubs and European Crane Fly (larvae).

For Mole Crickets: Apply in May or June when pests are small.

For Brown Dog Ticks: Spray grass and under shrubbery, particularly near the house. Do not spray pets with this product.

For Digger Wasps: Apply at dusk when wasps are not active.

Frit Flies: Mow and water thoroughly before treatment, but delay application until lawn is dry. Apply when crawlers first emerge.

**AROUND HOUSE FOUNDATIONS**

**PESTS CONTROLLED**

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies,



Millipedes, Scorpions, Sowbugs (Pillbugs), Spiders (including Black Widow Spiders), Springtails (Collembola).

**NUISANCE PESTS OUTDOORS:** To keep insects from entering the house, spray a five-foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. Do not apply to vinyl siding as staining may occur. 8 oz. of product (1/4 of the bottle) treats about 170 linear feet (approximately 1,200 sq ft). Repeat as needed.

Also spray walks, firewood piles, garbage cans, tree trunks, and into cracks and other places where insects can hide. Do not treat lawns or plants (other than tree trunks) at this rate (1 oz. per 150 sq. ft.). Do not burn sprayed firewood for 2 weeks after treatment.

**VEGETABLES - BEFORE PLANTING**

Use a product such as ORTHO Diazinon Soil & Turf Insect Control for best results.

**VEGETABLES - FOLIAR SPRAY**

**PLANTS:** Beans+ (fresh only) , Broccoli, Carrots, Cauliflower, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Endive (Escarole), Kale, Lettuce, Melons (Cantaloupes, Casaba, Crenshaws, Honeydews, Muskmelons, Persian, and Hybrids of these), Onions (Bulb & Green), Parsnips, Peas† (fresh only), Peppers, Potatoes, Radishes, Rutabagas, Spinach, Summer Squash, Winter Squash, Sweet Corn, Tomatoes, and Turnips.

**PESTS CONTROLLED**

**On Vegetables & Melons**

Foliar Spray: Aphids, Armyworms, Colorado Potato Beetle, Cucumber Beetles, Diamond-Back Moth (larvae), Dipterous Leafminers\*\*, Flea Beetles, Grasshoppers, Imported Cabbageworms, Leafhoppers, Mexican Bean Beetle, Mites, Spider Mites, Onion Thrips, Thrips, Vinegar Fly, Whiteflies. \*\*NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

**FOLIAR SPRAY DIRECTIONS**

**BE SURE TO FOLLOW IMPORTANT LIMITATIONS FOR THE SPECIFIC CROP YOU ARE SPRAYING (see below).**

Spray when listed pests first appear. Spray vegetables until plants just begin to drip. Each oz treats 1,050 sq ft of garden area. *[Package/label will contain appropriate graduation markings]*. Repeat sprays 7 to 10 days apart if needed. but do not apply more than 3 times per season for Beans and Peas, or more than 5 times per season for all other listed vegetables. Do not treat fruits and vegetables grown in greenhouses. Do not feed treated plants to animals.

Wait the following number of days before harvesting vegetables:

Vegetables	Days to Wait Before Harvest
Tomatoes	1 day
Melons, Winter Squash	3 days
Peppers, Strawberries	5 days

Beans + (fresh only), Broccoli, 7 days  
 Cauliflower,  
 Cucumbers, Peas + (fresh only),  
 Summer Squash, Sweet Corn

Chinese Broccoli, Chinese Cabbage, 10 days  
 Collards, Kale

Carrots, Endive (Escarole), Lettuce, 14 days  
 Onions (Bulb & Green), Parsnips,  
 Radishes, Rutabagas, Spinach, Turnips

Potatoes 35 days

+ NOTE: Do not use on dried bean or pea varieties such as pinto beans, dried limas, split peas or dried black-eyed peas. To protect bees, do not apply to bean or pea foliage if the crop or weeds in the treatment area are in bloom. Do not apply to corn during the pollen shed period.

**HOME FRUITS, NUT TREES, GRAPES and BERRIES**

**PESTS CONTROLLED**

Home Fruit Trees, Grapes & Berries:

Aphids (such as Black Cherry, Leafcurl Plum, Mealy Plum, and Thistle), Blueberry maggots, Cherry Fruit Flies, Cherry Fruitworms, Cranberry Fruitworms, Dried Fruit Beetles, Fruitworms (Maggots), Fruit Tree Leafrollers, Grape Berry Moth, Grape Leafrollers, Leafhoppers, Mealybugs, Mites (such as Brown, European Red, Two-Spotted Spider, and Cherry Rust), Raspberry Fruitworms, Raspberry Sawfly, Scale Crawlers (such as Olive, Parlatoria, San Jose, Walnut, Italian Pear, and Frosted), Spider Mites (see Mites), Strawberry Leafroller, Tentiform Leafminers, Thrips, Twig Borers, Walnut Caterpillars.

**FOLIAR SPRAY DIRECTIONS**

BE SURE TO FOLLOW IMPORTANT LIMITATIONS FOR THE SPECIFIC CROP YOU ARE SPRAYING, INCLUDING THE AMOUNT OF SPRAY WHICH CAN BE APPLIED, THE INTERVAL BETWEEN SPRAYS, AND THE DAYS TO WAIT BEFORE HARVEST.

Start spraying after blooming. Spray when listed pests first appear. Wet the foliage until it just begins to drip.

NOTE: To protect bees, do not apply to fruit trees when trees or a substantial number of weeds around the trees are in bloom.

**Amount to Use**

PLANT/USE AREA	1 OZ TREATS
HOME ORCHARD	375 SQ FT
NUT TREES	250 SQ FT
GRAPES	500 SQ FT

STRAWBERRIES	500 SQ FT
CANEERRIES	350 SQ FT

-- HOME FRUITS & NUT TREES - TREATMENT LIMITATIONS

	DAYS TO WAIT BETWEEN TREATMENTS	TREATMENTS PER YEAR (Max)	DAYS TO WAIT TO HARVEST
Apricots	14	3	21
Cherries	7-10 days	3	21
Nectarines	14	3	21
Peaches	14	3	21
Plums	7-10 days	3	21
Prunes	7-10 days	3	21
Strawberries	7-10 days	3	5
Caneberries* (For use in California, Oregon and Washington ONLY): Blackberries, Blueberries, Boysenberries, Dewberries, Loganberries and Raspberries	14	5	7
Walnuts* (California only)	14	3	45
Grapes	7-10 days	5	28

\*Note: Do not use this product on caneberries or walnuts grown in other states.

**STORAGE AND DISPOSAL**

**STORAGE:** Keep pesticide in original container. Be sure the small product control button/valve is in the closed position. Store in a cool, dry place, preferably in a locked storage area. Do not store near heat or open flame. Store in an area inaccessible to children and pets. Shake well before using.

**DISPOSAL:** Be sure the small product control button/valve is in the closed position. Securely wrap partially filled or empty container in several layers of newspaper and discard in trash. Do not reuse empty container.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Wear a long sleeved shirt and long legged pants when spraying. Spray with the wind to your back. Do not spray on windy days. If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again. **DO NOT USE INSIDE THE HOME.** Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. *[Child / Pet Icon]* Do not allow children or pets to go onto a treated area until the treated areas, such as grass or soil, has dried. Do

not contaminate ornamental fish ponds.

**FIRST AID:** If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Note to Physicians:** Emergency Information call 1-800-454-2333. This product is an organophosphate insecticide.

If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillates which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

**ENVIRONMENTAL HAZARDS:** This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where watering is recommended in the directions, or if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product; however, stop watering before puddling occurs. Keep out of water. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This pesticide is highly toxic to bees exposed to direct treatment or to 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.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**NOTICE:** Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

(ICON): Medical Information call 1-800-225-2883

Product Information call 1-800-225-2883

Manufactured for  
The ORTHO Group  
P.O. Box 1749  
Columbus, OH 43216  
EPA Reg. No. 239-2364  
EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA  
UPC

**3. LOCK'N SPRAY PRODUCT**

**(ICON) OUTDOOR USE ONLY**

*ABN: ORTHO Diazinon PLUS Insect Spray*

- Makes 48 Gallons of Spray (16 fl oz)
- Makes 96 Gallons of Spray (32 fl oz)

This product must NOT be used on golf courses or sod farms.  
For outdoor use on home lawns and home gardens only.

**LOCK'N SPRAY - AN INNOVATIVE TECHNICAL BREAKTHROUGH IN SPRAYING  
 CARTRIDGE FOR THE LOCK'N SPRAY SYSTEM/SPRAYER  
 USE WITH THE LOCK'N SPRAY SYSTEM/SPRAYER  
 FOR ORTHO'S LOCK'N SPRAY SMART VERSATILE SPRAYER SYSTEM  
 EASY TO USE, PREMEASURED, ACCURATE, ACCURATE DOSAGE  
 SIMPLE, EASY TO USE/ONE STEP APPLICATION  
 NO MIXING - NO MEASURING - NO MESS  
 NO MIX, NO MEASURE, NO MESSY CLEAN UP  
 ELIMINATES MIXING AND MEASURING  
 NO MIXING OR MEASURING NECESSARY  
 NO SPILL, CLEAN AND CONVENIENT TO USE  
 CLOSED SYSTEM PREVENTS SPILLS  
 SIMPLE AND EASY  
 AUTOMATIC LOCKING CLOSURE  
 AUTOMATICALLY MIXES THE RIGHT AMOUNT OF PRODUCT  
 JUST LOCK AND SPRAY - SNAP'N SPRAY**

**FOR ROSES, FLOWERS, SHRUBS, TREES, FRUITS, VEGETABLES, LAWNS, GARDENS & AROUND HOUSE  
 FOUNDATIONS  
 CONTROLS GARDEN INSECTS AND LAWN INSECTS  
 CONCENTRATE  
 MULTI-PURPOSE BUG/PEST INSECT KILLER**

**Active Ingredient**  
 Diazinon.....25%  
 \*Other Ingredients.....75%  
 \*Contains aromatic petroleum distillates

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION  
 See Back Panel Booklet for Additional Precautionary Statements**

**NET CONTENTS 16 fl oz (1 pint) 473 ml; 32 fl oz (1 quart) 946 ml**

**INSTRUCTIONS OPEN HERE**

*ORTHO Diazinon Insect Spray* controls a wide range of bugs/pests/insects in home lawns and gardens. This product may be all you need to stop insects on roses, listed flowers, trees, shrubs, lawns, vegetables, fruits, nuts,

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and around house foundations.

Treats 2,500 sq ft of lawn (pint), 5,000 sq ft of lawn (quart).

**CONTROLS GARDEN INSECTS**

Aphids, Cucumber Beetles, Cabbageworms, Codling Moth, Whiteflies and many others.

**CONTROLS LAWN INSECTS**

Ants, Fleas, Sod Webworms, Brown Dog Ticks, White Grubs

Kills Black Widow Spiders

**DO NOT USE ON HUMANS OR ANIMALS.**

*[THE FOLLOWING COPY IS FOR FIX-A-FORM BOOKLET TYPE LABELS WHICH CONSUMERS CAN OPEN, READ, AND RESEAL EASILY AT RETAIL AS WELL AS AT TIME OF USE]*

Peel open for use directions and further information.

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. See additional precautionary statements and use directions inside booklet.

[ICON]: Medical Information call 1-800-225-2883

Product Information call 1-800-225-2883

Manufactured for

The ORTHO Group

P.O. Box 1749

Columbus, OH 43216

EPA Reg. No. 239-2364

EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>

Superscript is first letter of lot number

Made in USA

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging this product is prohibited.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS.** Be sure the plants, use areas, and pests you want to treat are listed on the label before you spray.

**HOW TO USE**

1. Connect sprayer to garden hose by turning the sprayer hose connector.
2. Peel off sticker from the top of cartridge.
3. Point sprayer away from you. Hold cartridge so label faces you. Attach cartridge to sprayer.
4. Turn cartridge in either direction until it clicks into place.
5. Turn on water.

- 6. Rotate sprayer nozzle to direct spray up or down, or remove for a 20-25 foot jet spray.
- 7. Squeeze (color) trigger and begin spraying.
- 8. When finished, release (color) trigger then turn cartridge to unlock and remove from sprayer. (No need to turn off water.
- 9. Flush sprayer with water, squeezing and releasing the (color) trigger in short bursts 2 or more times.
- 10. Turn off water and squeeze the (color) trigger to relieve water pressure.
- 11. Leave sprayer on garden hose for use as a watering device, or disconnect, shake off excess water, and store in a safe place.

Note: Each cartridge contains five line gradations. Therefore, one line equals 2.67 oz (pint), 5.33 oz (quart) of product.

**ROSES, FLOWERS, SHRUBS & SHADE TREES**

PLANTS: Arbovitae, Azaleas, Birch, Boxwood, Camellias, Chrysanthemums, Carnations, Crab Apples, Dogwood, Douglas Fir, Elm, Euonymus, Gladioli, Hawthorn, Hemlock, Holly, Juniper, Lilac, Lilies, Locust, Maple, Marigolds, Mimosa, Oak, Ornamental Plum, Pine, Poplar, Pyracantha, Rhododendrons, Roses, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, Yew.

DO NOT use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, Gardenia, and Orchids since plant injury may occur.

**PESTS CONTROLLED**

On Roses, Flowers, Shrubs & Shade Trees

Aphids, Apple and Thorn Skeletonizers, Bagworms, Bean Beetles, Cabbageworms, Codling Moth, Cucumber Beetles, Cutworms, Dipterous Leafminers (such as Arbovitae, Azalea, Birch, Boxwood, Holly, and Oak), European Pine Shoot Moth, Flea Beetles, Hemlock Chermes, Hemlock Woolly Adelgid, Holly Bud Moth, Leafhoppers, Leafminers, Lacebugs, Leafrollers, Mealybugs, Mites (such as Carnation Bud, Carnation Shoot, Clover, Cyclamen, European Red, Privet, and Two-spotted Spider), Oak Loopers, Obscure Root Weevil, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers (such as Cottony-cushion, Euonymus, Lecanium, Pine Needle, Pit, San Jose and Soft), Spider Mites (see Mites), Tent Caterpillars, Thrips, Webworms (such as Cotoneaster, Fall, Juniper and Mimosa), and Whiteflies.

Spray when listed pests first appear. Spray plant to wet leaves and branches to dripping point. Repeat as needed to maintain control.

**HOME LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS**

Be sure to read the ENVIRONMENTAL HAZARDS section before you begin.

**PESTS CONTROLLED**

On Home Lawns

SURFACE PESTS: Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetle, Digger Wasps, Earwigs, Fleas, Frit Flies, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, Rhodesgrass Scales, Sowbugs (Pillbugs), Sod Webworms, Springtails (Collembola).

SUBSURFACE PESTS: European Crane Fly (Larvae), Grubs (Japanese Beetle, May Beetle, European Chafer, Southern Chafer), Mole Crickets, Hyperodes Weevil.

*Amount To Use [Two Easy Steps to Apply - alternate header]*

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1. Measure the area to be sprayed. Calculate square feet by multiplying length by width [walking man icon].
2. Spray evenly over lawn area. Each line on cartridge represents the amount of product needed to cover approximately 450 square feet (pint), 900 square feet (quart) of lawn.

### When to Water

For insects/bugs/pests that live above or near the soil surface, such as Ants, Clover Mites, Crickets, Sod Webworms, Chinch Bugs and Sowbugs, thoroughly water the lawn a few hours before applying. (See above for complete list of lawn surface pests.)

For insects/bugs/pests that live in the soil, such as European Crane Fly (larvae), Grubs, Hyperodes Weevils, and Mole Crickets, water the lawn after you spray to soak/carry the insecticide down into the soil.

### SPECIAL INSTRUCTIONS

Consult your local Agricultural Extension Service for proper time to treat lawn pests such as Grubs and European Crane Fly (larvae).

For Mole Crickets: Apply in May or June when pests are small.

For Brown Dog Ticks: Spray grass and under shrubbery, particularly near the house. Do not spray pets with this product.

For Digger Wasps: Apply at dusk when wasps are not active.

Frit Flies: Mow and water thoroughly before treatment, but delay application until lawn is dry. Apply when crawlers first emerge.

### AROUND HOUSE FOUNDATIONS

#### PESTS CONTROLLED

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Scorpions, Sowbugs (Pillbugs), Spiders (including Black Widow Spiders), Springtails (Collembola).

**NUISANCE PESTS OUTDOORS:** To keep insects from entering the house, spray a five-foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. Each line on cartridge represents the amount of product needed to cover approximately 57 linear feet (pint), 114 linear feet (quart); [400 square feet (pint), 800 square feet (quart)]. Repeat as needed. "Do not apply to vinyl siding as staining may occur".

Also spray walks, firewood piles, garbage cans, tree trunks, and into cracks and other places where insects can hide. Do not treat lawns or plants (other than tree trunks) at this rate. Do not burn sprayed firewood for 2 weeks after treatment.

### VEGETABLES - BEFORE PLANTING

Use a product such as ORTHO Diazinon Soil & Turf Insect Control for best results.

### VEGETABLES - FOLIAR SPRAY

**PLANTS:** Beans+ (fresh only) , Broccoli, Carrots, Cauliflower, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Endive (Escarole), Kale, Lettuce, Melons (Cantaloupes, Casaba, Crenshaws, Honeydews, Muskmelons, Persian, and Hybrids of these), Onions (Bulb & Green), Parsnips, Peas† (fresh only), Peppers, Potatoes, Radishes,



Rutabagas, Spinach, Summer Squash, Winter Squash, Sweet Corn, Tomatoes, and Turnips.

**PESTS CONTROLLED**

**On Vegetables & Melons**

Foliar Spray: Aphids, Armyworms, Colorado Potato Beetle, Cucumber Beetles, Diamond-Back Moth (larvae), Dipterous Leafminers\*\*, Flea Beetles, Grasshoppers, Imported Cabbageworms, Leafhoppers, Mexican Bean Beetle, Mites, Spider Mites, Onion Thrips, Thrips, Vinegar Fly, Whiteflies. \*\*NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

**FOLIAR SPRAY DIRECTIONS**

**BE SURE TO FOLLOW IMPORTANT LIMITATIONS FOR THE SPECIFIC CROP YOU ARE SPRAYING (see below).**

Spray when listed pests first appear. Spray vegetables until plants just begin to drip. Each line on cartridge represents the amount of product needed to cover approximately 2800 square feet (pint), 5600 square feet (quart). Repeat sprays 7 to 10 days apart if needed. but do not apply more than 3 times per season for Beans and Peas, or more than 5 times per season for all other listed vegetables. Do not treat fruits and vegetables grown in greenhouses. Do not feed treated plants to animals.

Wait the following number of days before harvesting vegetables:

Vegetables	Days to Wait Before Harvest
Tomatoes	1 day
Melons, Winter Squash	3 days
Peppers, Strawberries	5 days
Beans+ (fresh only), Broccoli, Cauliflower, Cucumbers, Peas+(fresh only), Summer Squash, Sweet Corn	7 days
Chinese Broccoli, Chinese Cabbage, Collards, Kale	10 days
Carrots, Endive (Escarole), Lettuce, Onions (Bulb & Green), Parsnips, Radishes, Rutabagas, Spinach, Turnips	14 days
Potatoes	35 days

+NOTE: Do not use on dried bean or pea varieties such as pinto beans, dried limas, split peas or dried black-eyed peas. To protect bees, do not apply to bean or pea foliage if the crop or weeds in the treatment area are in bloom. Do not apply to corn during the pollen shed period.

**HOME FRUITS, NUT TREES, GRAPES and BERRIES**

**PESTS CONTROLLED**

Home Fruit Trees, Grapes & Berries:

Aphids (such as Black Cherry, Leafcurl Plum, Mealy Plum, and Thistle), Blueberry maggots, Cherry Fruit Flies, Cherry Fruitworms, Cranberry Fruitworms, Dried Fruit Beetles, Fruitworms (Maggots), Fruit Tree Leafrollers, Grape Berry Moth, Grape Leaffolders, Leafhoppers, Mealybugs, Mites (such as Brown, European Red, Two-Spotted Spider, and Cherry Rust), Raspberry Fruitworms, Raspberry Sawfly, Scale Crawlers (such as Olive, Parlatoria, San Jose, Walnut, Italian Pear, and Frosted), Spider Mites (see Mites), Strawberry Leafroller, Tentiform Leafminers, Thrips, Twig Borers, Walnut Caterpillars.

**FOLIAR SPRAY DIRECTIONS**

BE SURE TO FOLLOW IMPORTANT LIMITATIONS FOR THE SPECIFIC CROP YOU ARE SPRAYING, INCLUDING THE AMOUNT OF SPRAY WHICH CAN BE APPLIED, THE INTERVAL BETWEEN SPRAYS, AND THE DAYS TO WAIT BEFORE HARVEST.

Start spraying after blooming. Spray when listed pests first appear. Wet the foliage until it just begins to drip.

**Amount To Use**

Each line on the cartridge represents the amount of product needed to cover approximately 1000 square feet (pint), 2000 square feet (quart) of home orchard; 660 square feet (pint), 1320 square feet (quart) of nut trees; 1330 square feet (pint), 2660 square feet (quart) of grapes or strawberries; and 930 square feet (pint), 1860 square feet (quart) of caneberries.

NOTE: To protect bees, do not apply to fruit trees when trees or a substantial number of weeds around the trees are in bloom.

**HOME FRUITS & NUT TREES - TREATMENT LIMITATIONS**

	DAYS TO WAIT BETWEEN TREATMENTS	TREATMENTS PER YEAR (Max)	DAYS TO WAIT TO HARVEST
Apricots	14	3	21
Cherries	7-10 days	3	21
Nectarines	14	3	21
Peaches	14	3	21
Plums	7-10 days	3	21
Prunes	7-10 days	3	21
Strawberries	7-10 days	3	5
Caneberries* (For use in California, Oregon and Washington ONLY); Blackberries, Blueberries,	14	5	7

Boysenberries, Dewberries, Loganberries and Raspberries			
Walnuts* (California only)	14	3	45
Grapes	7-10 days	5	28

\*Note: Do not use this product on caneberries or walnuts grown in other states.

**STORAGE AND DISPOSAL**

**STORAGE:** Keep pesticide in original container. Store in a cool, dry place, preferably in a locked storage area. Do not store near heat or open flame. Store in an area inaccessible to children and pets. Shake well before using.  
**DISPOSAL:** Securely wrap partially filled or empty container in several layers of newspaper and discard in trash. Do not reuse empty container.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Wear a long sleeved shirt and long legged pants when spraying. Spray with the wind to your back. Do not spray on windy days. If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again. **DO NOT USE INSIDE THE HOME.** Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. [Child / Pet Icon] Do not allow children or pets to go onto a treated area until the treated areas, such as grass or soil, has dried. Do not contaminate ornamental fish ponds.

**FIRST AID:** If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physicians: Emergency Information call 1-800-454-2333. This product is an organophosphate insecticide.

If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains aromatic petroleum distillates which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

**ENVIRONMENTAL HAZARDS:** This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where watering is recommended in the directions, or if waterfowl (ducks or geese) can be expected in the treated area after

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treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product; however, stop watering before puddling occurs. Keep out of water. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This pesticide is highly toxic to bees exposed to direct treatment or to 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.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**NOTICE:** Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

**[ICON]:** Medical Information call 1-800-225-2883

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Manufactured for  
The ORTHO Group  
P.O. Box 1749  
Columbus, OH 43216  
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EPA Est. 239-1A-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA  
UPC