



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

239-2643

Date of Issuance:

OCT 17 1995

Term of Issuance:

Conditional

Name of Pesticide Product:

ORTHO Diazinon
Insect Spray 2

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

The SOLARIS Group of Monsanto Co.
P.O. Box 5006
San Ramon, CA 94583-0906

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Reg. No. 239-2643
 - b. Revise the front panel limitation to "For outdoor use on home lawns and home gardens only.". Above this, add the required "This product must be used on golf courses or sod farms."
 - c. Delete the proposed front panel statement "KILLS OVER 100 DIFFERENT PESTS. For the claims "NEW/NOW WATER BASED FORMULA", "NOW/NEW LOW ODOR FORMULA", "NEW/NOW WITH MEASURING

Signature of Approving Official:

Date:

OCT 17 1995

CAP & POUR SPOUT", and "NEW/NOW WITH MEASURING CAP", the term "New" may appear no longer than 6 months following product introduction.

- d. In the first paragraph on page 2, correct the product name to "ORTHO Diazinon Insect Spray 2" rather than "Diazinon Plus Insect Spray", delete "Kills over 100 different pests" and revise "this product is all you need ..." to "this product may be all you need...". Directly before "Easy to apply...", add "ORTHO Diazinon Insect Spray 2 is a concentrate which must be diluted with water before application."
- e. In the CONTROLS GARDEN INSECTS, delete "etc." after "Whiteflies". You may replace "etc." with "and many others".
- f. In the Quick Reference table, for VEGETABLES AND FRUITS replace the dilution rate with "See label text." This is necessary because there are 2 dilution rates (the rate for grapes is only 1 1/2 tsp per gallon), preharvest intervals apply, number of applications limits apply, gallons of spray per unit area limits apply, and intervals between sprays limits apply. You may wish to revise the PLANT/USE AREA column to VEGETABLES, FRUITS, & NUTS Foliar Spray.
- g. Split up the PESTS CONTROLLED section so that each group of pests controlled is relocated to appear (with the subheading PESTS CONTROLLED) at the beginning of each use site category, after the PLANTS listing for those that have or will have such a listing, eg. under the heading the heading ROSES, FLOWERS, SHRUBS & SHADE TREES directly beneath the PLANTS section (after "since injury may occur") add the subheading PESTS CONTROLLED and the listing from Aphids through Whiteflies. In this particular pest listing, revise the entry "Spidermites" to "Spider Mites (see Mites)".
- h. Delete "DIRECTIONS" which appears above ROSES, FLOWERS, SHRUBS & SHADE TREES. In the PLANTS listing under this heading, revise "Applie" to "Apples".
- i. In the DILUTION RATE for Roses, Flowers, Shrubs and Shade Trees, revise "2 tsp per of gallon water" to "2 tsp per gallon of water". Your label is inconsistent with regards to giving dilution directions. Many times you give the measuring cap directions, but not always, such as the directions for this use site and home lawns and other outdoor

home recreational areas. Is there a reason for this inconsistency/omission? If not, then directly after "2 tsp per gallon of water" add "Fill cap to level 1 two times. Add to 1 gallon of water." In the directions for use of the Dial 'n Spray, add a comma between "Sprayer" and "simply". Revise "Spray when pests first appear." to "Spray when listed pests first appear."

- j. In the first sentence under the heading HOME LAWNS, capitalize ENVIRONMENTAL HAZARDS. Also, the relocated lists of SURFACE PESTS and SUBSURFACE PESTS should appear below this sentence, i.e., above the THREE EASY STEPS. For consistency, add PESTS CONTROLLED above the listing. As noted above, you may want to give the measuring cap directions after "Mix 1-1/2 tsp per gallon." as "Fill cap to level 1 one and a half times. Add to 1 gallon of water."
- k. In the first When to Water paragraph, add a comma after "surfaces" and after "Sowbugs". Also, revise "(See Pests Controlled on Home Lawns for complete list of surface pests)," to "(See above for complete list of lawn surface pests.)".
- l. In the second When to Water paragraph, add "(larvae)" after "Crane Fly" and delete the space with the comma following after it that appears after Mole Crickets. The Agency notes that this paragraph lists Mole Crickets among insects that live in the soil, but your pests listing shows them in the surface pests listings. Is this discrepancy intentional?
- m. In the first sentence under the heading SPECIAL INSTRUCTIONS, add "(larvae)" after "Crane Fly". At the end of the special instructions for control of Brown Dog Ticks, add "Do not spray pets with this product."
- n. As noted above, for consistency you may want to give the measuring cap directions for Fire Ant mound treatment as "Fill cap to level 3 (1 fl oz). Add to 1 gallon of water."
- o. The relocated list of Around Home Foundation pests from Ants to Springtails (Collembola), with the subheading PESTS CONTROLLED, should appear under the heading AROUND HOUSE FOUNDATIONS. As noted above, for consistency you may want to give the measuring cap directions for Foundation treatment as "Fill cap to level 4 (2 fl oz). Add to 1 gallon of water."

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- p. Since the specific Before Planting - Vegetables and Melons pests are shown with the pertinent crops there will be no separate listing of PESTS CONTROLLED as such under the heading VEGETABLES - BEFORE PLANTING. However, revise "To Control Cutworms" to just "Cutworms" and revise the heading "Cutworm & Wireworm" to "To Control Cutworms & Wireworms". In the directions associated with this heading, for consistency with the rest of the pre-plant directions, replace "Fill cap to level 4 (2 fl oz). per gallon of water" with "Fill cap to level 4 (2 fl oz). Add to 1 gallon of water." Also, revise "Spray over 350 sq ft just before planting." to read "Spray evenly over 350 sq. ft. of garden area just before planting."
- q. In the directions To Control Mole Crickets, revise "Add to 1 gallon water." to "Add to 1 gallon of water." and revise "Spray evenly over 350 sq ft." to read "Spray evenly over 350 sq. ft. of garden area just before planting.". You have omitted directions for use of the Dial 'n Spray Hose-End Sprayer for this use. Is this omission intentional?
- r. In the directions To Control Root Maggots, revise "Add to 1 gallon water." to "Add to 1 gallon of water." You have omitted directions for use of the Dial 'n Spray Hose-End Sprayer for this use. Is this omission intentional?
- s. Because of the differences in application, i.e. the area to be treated by each gallon of spray, separate the directions for vegetable foliar spray from the Home Fruit Trees, Nuts, Grapes, and Berries section. Revise and consolidate the heading for this first group to VEGETABLES-FOLIAR SPRAY. Beneath this heading add the following: 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. The relocated pests list for Vegetable and Melons- Foliar Spray, from Aphids through the Note about resistant leafminers, should appear below the PLANTS section. For consistency, add PESTS CONTROLLED directly above the pests listing. In this listing, revise "Diamond Back Moth" to "Diamond-Back Moth", and revise "Cabbage Worms" to "Cabbageworms".

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- t. Revise the "DILUTION RATE:" under the heading VEGETABLES-FOLIAR SPRAY to read as follows: 2 tsp per gallon of water to cover 350 sq. ft. of garden area. Fill cap to level 1 two times. Add to 1 gallon of water. To apply with an Ortho Dial 'n Spray Hose-End Sprayer: Fill cap to level 1 two times for every 350 sq ft of home garden area to be sprayed. Do not add water. Set dial to 2 tsp and spray evenly over vegetable plants in the desired area. BE SURE TO FOLLOW IMPORTANT LIMITATIONS FOR THE SPECIFIC CROP YOU ARE SPRAYING (see below).

Spray when listed pests first appear. Wet plants 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. Do not treat vegetables or fruits grown in greenhouses. Do not feed treated plants to animals.

Wait the following number of days before harvesting vegetables:

[insert your PHI table here as is, except be sure to align all the PHI numbers in a column]

[Relocate the +Note to appear beneath the PHI table. Expand the first sentence to read: "Do not use on dried bean or pea varieties such as pinto beans, dried limas, split peas, or dried black-eyed peas.".]

[Retain the disease control note in this location.]

- u. The pests listing for home fruit trees, grapes, & berries will either have to be broken up into separate listings (each with its PESTS CONTROLLED heading) of appropriate pests for each of the remaining four uses on the label (fruits, nuts, grapes, and berries), together with a separate DILUTION RATE section for each of these four sites), or else a new consolidated heading HOME FRUIT TREES, NUT TREES, GRAPES and BERRIES will have to added above the HOME FRUIT TREES subheading. The current consolidated pest list with its heading PESTS CONTROLLED could then be relocated under this new master heading. If you elect the consolidated heading approach, you may then use the following DILUTION RATE section to cover all four remaining sites:
DILUTION RATE: 2 tsp per gallon of water. Fill cap to level 1 two times. Add to 1 gallon of water. BE SURE TO FOLLOW

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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. To apply with an Ortho Dial 'n Spray Hose-End Sprayer: Fill cap to level 1 two times for each gallon of spray you will need based on the limitations for the specific crop you are spraying. Do not add water. Set dial to 2 tsp and spray evenly according to the specific directions (see below).

- v. Revise the directions for home fruit trees to read as follows:

Apricots, Cherries, Nectarines, Peaches, Plums, Prunes: Start spraying after blooming. Spray when listed pests first appear. Wet the foliage to the dripping point. Do not apply more than 4 gallons of spray per 500 sq ft of home orchard. Do not spray more than 3 times per season. For cherries, plums, and prunes wait a minimum of 7 to 10 days between sprays. For apricots, nectarine, and peaches, wait a minimum of 14 days between sprays. For all these tree fruits, wait a minimum of 21 days after the last spray before harvesting the fruit. NOTE: To protect bees, do not apply to fruit trees when trees or a substantial number of weeds around the trees are in bloom.

- w. Revise the directions for home nut trees to read as follows:

Almonds (dormant season only) CA only: Spray almonds once during the dormant season, before leaves come out, to control San Jose and Parlatoria scale. Do not apply more than 6 gallons of spray per 500 sq ft of home orchard. Walnuts CA only: Start spraying after blooming. Spray when listed pests first appear. Wet the foliage to the dripping point. Do not apply more than 6 gallons of spray per 500 sq ft of home orchard. Do not spray more than 3 times per season. Wait a minimum of 14 days between sprays. Wait a minimum of 45 days after the last spray before harvesting walnuts. NOTE: This product may be used on almonds and walnuts in California only. Do not use this product on almonds or walnuts grown in other states.

- x. Because the dilution rate for grapes is different from that of strawberries and caneberries, grape directions should be separated from the berries directions and should appear as follows:

HOME GRAPES

Start spraying after blooming. Spray when listed pests first appear. Wet foliage to the dripping point. Do not apply more

than 3 gallons per 500 sq ft of home vineyard. Do not spray more than 5 times per season. Wait a minimum of 7 to 10 days between sprays. Wait a minimum of 28 days after the last spray before harvesting grapes.

- y. Revise the directions for home berry patches to read as follows:

BERRY PATCH

Strawberries: Start spraying after blooming. Spray when listed pests first appear. Wet foliage to the dripping point. Do not apply more than 3 gallons per 500 sq ft of berry patch. Do not spray more than 3 times per season. Wait a minimum of 7 to 10 days between sprays. Wait a minimum of 5 days after the last spray before harvesting strawberries.

Blackberries, Blueberries, Boysenberries, Dewberries, Loganberries, and Raspberries: (CA, OR, WA only) Start spraying after blooming. Spray when listed pests first appear. Wet foliage to the dripping point. Do not apply more than 5 gallons per 500 sq ft of berry patch. Do not spray more than 5 times per season. Wait a minimum of 14 days between sprays. Wait a minimum of 7 days after the last spray before harvesting berries. NOTE: This product may be used on these caneberries only in California, Oregon, and Washington. Do not use this product on caneberries grown in other states.

- z. Add the following at the end of the STORAGE section:
If product freezes, place container in a warm area (68 F or above) not accessible to children or pets and allow to thaw. Shake well before using.
- aa. In the **Hazards to Humans and Domestic Animals**, the sentence "Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides." is NOT optional, and must appear regardless of whether the product has a measuring cap or not.
- bb. In the **Statement of Practical Treatment**, revise the end of the **If Swallowed** advice to read "...if person is unconscious or convulsing".
- cc. Revise the end of the **If in Eyes** advice to read "... and call a physician if irritation persists."

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- dd. In the **Environmental Hazards**, revise "or if waterfowl, i.e, ducks or geese," to read "or if waterfowl (ducks or geese)".
 - ee. Also in the **Environmental Hazards**, replace "Keep out of water." with "Do not apply directly to water."
 - ff. Be sure to meet type size requirements for elements of the label with minimum type size requirements.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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.

Enclosures

99

BONUS 25% MORE 40 FL OZ AT REGULAR 32 FL OZ PRICE

[ICON] OUTDOOR USE ONLY

[ICON] WATER BASED

DIAZINON Insect Spray²

Makes up to 96 Gallons Spray/*qt. size*

For use only on home lawns and gardens.

FOR ROSES, FLOWERS, SHRUBS, TREES, FRUITS, VEGETABLES, LAWNS,
GARDENS & AROUND HOUSE FOUNDATIONS

CONTROLS GARDEN INSECTS AND LAWN INSECTS

NEW / NOW WATER BASED FORMULA

IMPROVED FORMULA

NOW / NEW LOW ODOR FORMULA

CONCENTRATE

NEW / NOW WITH MEASURING CAP & POUR SPOUT

IMPROVED PACKAGE

NEW/NOW WITH MEASURING CAP

EASY POUR SPOUT

FAST & EASY MEASURING CAP

MULTI-PURPOSE BUG/PEST/INSECT KILLER

KILLS OVER 100 DIFFERENT PESTS

Active Ingredient

Diazinon: 0,0 Diethyl 0 (2-isopropyl-6-methyl 4-pyrimidinyl) phosphorothioate

22.4%

Inert Ingredients.....

77.6%

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

NEW CONTENTS 40 FL OZ (1 QT 8 FL OZ) 1.18 L

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 17 1995

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

239-2643

INSTRUCTIONS

OPEN HERE

Diazinon Plus Insect Spray controls a wide range of bugs/pests/insects in home lawns and gardens. Kills over 100 different pests; this product is all you need to stop insects on roses, listed flowers, trees, shrubs, lawns, vegetables, fruits, nuts, and around house foundations. Easy to apply with an Ortho® Dial 'n Spray®, hose-end, or tank-type sprayer. Improved, low odor water based formula has the same killing power as previous concentrate without the solvent smell. Improved package with pour spout and measuring cap for fast, easy, accurate measuring.

CONTROLS GARDEN INSECTS

Aphids, Cucumber Beetles, Cabbageworms, Codling Moth, Whiteflies etc.

See inside label for complete list

CONTROLS LAWN INSECTS

Ants, Fleas, Sod Webworms, Brown Dog Ticks, 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. See additional precautionary statements and use directions inside booklet.

Medical Information call 1-800-454-2333

Product Information call 1-800-225-2883

Manufactured for

The SOLARIS Group of

Monsanto Company

P.O. Box 5008

San Ramon CA 94583-0808

Form

EPA Reg. No. 239- / Product

EPA Est. 239-IA-3¹, 58996-MO-1^A

Superscript is first letter of lot number

Made in USA

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

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.

Quick Reference

PLANT / USE AREA	MEASURING CAP INSTRUCTIONS TO MAKE 1 GALLON OF SPRAY
LAWN INSECT CONTROL	Fill cap to level 1 one and one-half times (1-1/2 tsp)
ROSES, FLOWERS, SHRUBS, SHADE TREES	Fill cap to level 1 two times (2 tsp)
VEGETABLES & FRUITS Foliar Spray	Fill cap to level 1 two times (2 tsp)
VEGETABLES & FRUITS Before planting	See label text
FIRE ANT CONTROL	Fill cap to level 3 (1 oz)
AROUND HOUSE FOUNDATIONS (Outdoors only)	Fill cap to level 4 (2 oz)

The measuring cap has 4 fill levels marked inside the cap. Fill cap to appropriate level for fast, easy, accurate measuring. Close cap tightly after use -- no need to rinse.

Level 1 = 1 teaspoon (tsp)

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

Level 3 = 1 fl oz (2 Tbs)

Level 4 = 2 fl oz (4 Tbs)

PESTS CONTROLLED

On Roses, Flower, Shrubs & Shade Trees

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

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, Mole Crickets, Rhodesgrass Scales, Sowbugs (Pillbugs), Sod Webworms, Springtails (Collembola). Also aids in controlling Fire Ants.

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

Around House Foundation

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).

On Vegetables & Melons

Foliar Spray: Aphids, Armyworms, Colorado Potato Beetle, Cucumber Beetles, Diamond Back Moth (larvae), Dipterous Leafminers**, Flea Beetles, Grasshoppers, Imported Cabbage Worms, Leafhoppers, Mexican Bean Beetle, Mites, Spidermites, Onion Thrips, Thrips, Vinegar Fly, Whiteflies. **NOTE: Resistant leafminers will not be controlled by diazinon or similar type insecticides. **Before Planting:** Cutworms, Wireworms, Mole Crickets, Root Maggots.

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.

DIRECTIONS

ROSES, FLOWERS, SHRUBS & SHADE TREES

PLANTS: Arborvitae, Azaleas, Birch, Boxwood, Camellias, Chrysanthemums, Carnations, Crab Apple, 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 injury may occur.

DILUTION RATE: 2 tsp per of gallon water. Apply with a hose-end or tank-type sprayer. To apply with an Ortho Dial 'n Spray Hose-End Sprayer simply pour product into sprayer jar. (You do not need to measure.) Do not add water. Set dial to 2 tsp and spray. Any leftover concentrate may be poured back into the original container.

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

Combination Spray with Fungicide on Roses: ORTHO RosePride™ 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.

HOME LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS
Be sure to read the environmental hazards section before you begin.

THREE EASY STEPS TO MIX AND APPLY

1. Measure the area to be sprayed. Calculate square feet by multiplying length by width. [walking man icon]
2. Use a clean sprayer, such as a tank-type or hose-end sprayer. Carefully mix the proper amount of concentrate with water for the size of your lawn.
3. Dilution rate: Mix 1-1/2 tsp per gallon of water. One gallon of spray treats 42 sq ft of lawn. To treat 500 sq ft mix 3 oz of product in 12 gallons of water. To treat 1000 sq ft mix 6 oz in 24 gallons of water.

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. Do not add water. Set dial to 1-1/2 tsp. Spray evenly over desired area.

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 Pests Controlled on Home Lawns for complete list of surface pests),

For insects/bugs/pests that live in the soil, such as European Crane Fly, 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.

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.

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.

FIRE ANT MOUNDS IN HOME LAWNS

DILUTION RATE: Fill cap to level 3 (1 fl oz)per 1 gallon of water. For best results, drench mounds when temperatures are 65 to 80°F or in early morning or late evening. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Treat new mounds as they appear. Do not use this treatment in vegetable gardens.

AROUND HOUSE FOUNDATIONS

NUISANCE PESTS OUTDOORS: Fill cap to level 4 (2 oz) per gallon of water. 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 2-3 feet. 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. Do not burn sprayed firewood for 2 weeks after treatment.

VEGETABLES - BEFORE PLANTING

To Control Cutworms: Beets, Cabbage, Carrots, Lettuce, Beans* (Lima, Pole, & Snap), Peas*, Sweet Corn, Tomatoes, Radishes, Rutabagas, Turnips and Turnip Tops.

Wireworms: Cabbage, Carrots, Lettuce, Peas*, Snap Beans*, Sweet Corn, Tomatoes.

Cutworm & Wireworm: **DILUTION RATE:** Fill cap to level 4 (2 fl oz). per gallon of water. Spray over 350 sq ft just before planting. Immediately mix into soil 2 to 3 inches for Surface Cutworms, 3 to 6 inches for Subterranean Cutworms, and 4 to 8 inches for Wireworms. To apply with an Ortho Dial 'n Spray Hose-End Sprayer: Fill cap to level 4 (2 oz) for every 350 sq ft of home garden area. Set dial to 2 fl oz and spray evenly over desired area.

To Control Mole Crickets: Beets, Carrots, Beans*(Lima, Pole, & Snap), Peas*, Sweet Corn. **DILUTION RATE:** 1 to 2 days before planting, apply 4 tsp. in 1 gal. of water to 350 sq. ft. Fill cap to level 1 four times. Add to 1 gallon 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. **DILUTION RATE:** Fill cap to level 4 (2 fl oz). Add to 1 gallon water. Spray evenly over 350 sq ft of garden area. Immediately mix into the soil to a depth of 2 to 3 inches.

*This product is registered only for use on fresh beans and peas. Do not use if you plan to grow peas and beans to eat when dried.

VEGETABLES, FRUITS, & NUTS

FOLIAR SPRAY DIRECTIONS

DILUTION RATE: 2 tsp per 1 gal of water. (Fill cap to level 1 two times per gallon of water). Spray when pests first appear. Wet the plants to the dripping point. To apply with an Ortho Dial 'n Spray Hose-End Sprayer, simply pour product into sprayer jar. (You do not need to measure.) Do not add water. Set dial to 2 tsp and spray. Any leftover concentrate may be poured back into the original container. Repeat sprays 7 to 10 days apart if needed.

Do not apply more than 3 times per season for Beans and Peas, or more than 5 times per season for all other vegetables.

+ 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.

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

Do not treat fruits and vegetables grown in greenhouses. Do not feed treated plants to animals.

For Disease Control on Fruits and Vegetables apply ORTHO Multi-Purpose Fungicide DACONIL 2787®. Follow label directions.

HOME FRUIT TREES

Apricots, Cherries, Nectarines, Peaches, Plums, Prunes: Repeat sprays for cherries, plums and prunes 7 to 10 days apart, for apricots, nectarines and

peaches, 14 days apart. Do not apply more than 3 times per season. Wait 21 days after spraying to eat fruit.

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

Almonds (dormant season) CA only: Spray almonds only once to control San Jose and Parlatoria scale. Walnuts CA only: Do not apply to Walnuts more than 3 times per season or after husks crack open. Repeat sprays for walnuts 14 days apart. Wait 45 days after last spraying to eat nuts.

HOME GRAPES OR BERRY PATCH

Grapes & Strawberries: 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. Wait 28 days to eat grapes. Wait 5 days after spraying to eat strawberries.

Blackberries, Blueberries, Boysenberries, Dewberries, Loganberries, and Raspberries, CA, OR, WA only: Do not apply more than 5 times per season. Repeat sprays 14 days apart. Wait 7 days after spraying to eat berries.

STORAGE AND DISPOSAL

STORAGE: Keep pesticide in original container. Store in a cool, dry place, preferably in a locked storage area. Store in an area inaccessible to children and pets.

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. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. 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 physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth if person is unconscious. If in Eyes: Rinse eyes with plenty of water and call a physician immediately. If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get medical attention. IF On Skin: Wash with plenty of soap and water. Get medical attention.

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. If ingested, induce emesis or lavage stomach.

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 irrigation (watering) is recommended in the directions, or if waterfowl, i.e., 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.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Medical Information call 1-800-454-2333
Product Information call 1-800-225-2883

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Manufactured for
The SOLARIS Group of
Monsanto Company
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San Ramon CA 94583-0808
Product
Form
EPA Reg. No. 239-
EPA Est. 239-IA-3¹, 58996-MO-1^A

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Superscript is first letter of lot number
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