

PM 13

239-2643

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

[[ICON] OUTDOOR USE ONLY

[[ICON] WATER BASED

*ORTHO Diazinon Insect Spray*2

Makes up to 96 Gallons of Spray [qt. size]

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

NEW / NOW WATER BASED FORMULA

IMPROVED FORMULA

NEW / NOW LOW ODOR FORMULA

CONCENTRATE

NEW / NOW WITH MEASURING CAP & POUR SPOUT

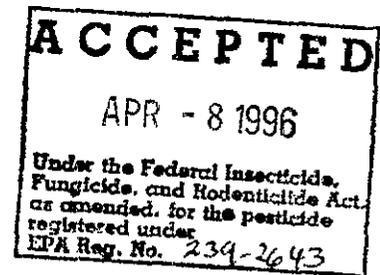
IMPROVED PACKAGE

NEW/NOW WITH MEASURING CAP

EASY POUR SPOUT

FAST & EASY MEASURING CAP

MULTI-PURPOSE BUG/PEST INSECT KILLER



Active Ingredient

Diazinon: O,O-Diethyl O-(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

NET CONTENTS 40 fl oz (1qt 8 fl oz )1.18 L



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INSTRUCTIONS  
OPEN HERE

*ORTHO Diazinon Insect Spray2* 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. *ORTHO Diazinon Insect Spray2* is a concentrate which must be diluted with water before application. 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 and many others.

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.

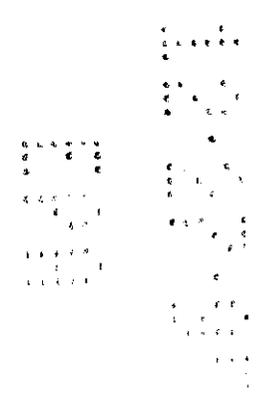
*[THE FOLLOWING COPY IS FOR FIX-A-FORM BOOKLET TYPE LABELS WHICH CONSUMERS CAN OPEN, READ, AND RESEAL EASILY AT RETAIL AS WELL AS AT TIME OF USE]*

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- 2643 / Product  
EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
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 & NUTS	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)



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## ROSES, FLOWERS, SHRUBS & SHADE TREES

**PLANTS:** Arborvitae, 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 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 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), Spider Mites (see Mites), Tent Caterpillars, Thrips, Webworms (such as Cotoneaster, Fall, Juniper and Mimosa), Whiteflies.

**DILUTION RATE:** 2 tsp per gallon of water. Fill cap to level 1 two times. Add to 1 gallon of 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.

Spray when listed 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.

### PESTS CONTROLLED

#### On Home Lawns

**SURFACE PESTS:** Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetle,

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Digger Wasps, Earwigs, Fleas, Frit Flies, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, 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), Mole Crickets, Hyperodes Weevil.

### 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. Fill cap to level 1 one and a half times. Add to 1 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 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.

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### FIRE ANT MOUNDS IN HOME LAWNS

**DILUTION RATE:** Fill cap to level 3 (1 fl oz). Add to 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

#### 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: DILUTION RATE:** Fill cap to level 4 (2 fl oz). Add to 1 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

**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.

**To Control Cutworms & Wireworms: DILUTION RATE:** Fill cap to level 4 (2 fl oz). Add to 1 gallon of water. Spray evenly over 350 sq ft of garden area 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:** Fill cap to level 1 four times (4 tsp). Add to 1 gallon of water. Spray evenly over 350 sq ft of garden area just before planting. 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 of water. Spray evenly over 350 sq ft of garden area. Immediately mix into the soil to a depth of 2 to 3 inches.

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\*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 - 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. **Before Planting:** Cutworms, Wireworms, Mole Crickets, Root Maggots.

### FOLIAR SPRAY DIRECTIONS

**DILUTION RATE:** 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 the 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 fruits and vegetables grown in greenhouses. Do not feed treated plants to animals.

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Wait the following number of days before harvesting vegetables:

<b>Vegetables</b>	<b>Days to Wait Before Harvest</b>
Tomatoes	1 day
Melons, Winter Squash	3 days
Peppers, Strawberries	5 days
Beans + (fresh only), Broccoli, Cauliflower,	7 days
Cucumbers, Peas + (fresh only), Summer Squash, Sweet Corn	10 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.

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

**HOME FRUIT TREES, 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.

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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 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).

### HOME FRUIT TREES

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, nectarines, and peaches wait a minimum of 14 days between sprays. For all these fruit trees, 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.

### HOME NUT TREES

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 pest 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 apply 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.

### 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.

### 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

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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, Washington and Oregon. Do not use this product on caneberries 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. Store in an area inaccessible to children and pets. 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.

**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 area, 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. **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 or convulsing. If in Eyes: Rinse eyes with plenty of water and call a physician if irritation persists. 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.

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**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 (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. Do not apply directly to 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  
P.O. Box 5008  
San Ramon CA 94583-0808

Product

Form

EPA Reg. No. 239-2643

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

