

PM 03

239-2660

9/28/98

P 1/13



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

239-2660

Date of Issuance:

SEP 28 1998

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

ORTHO Diazinon
Lock'N Spray
Insect Killer

Name and Address of Registrant (include ZIP Code):

The Solaris Group
A Div. of the Agricultural 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. 239-2660".
 - b. Align the decimal points in the declared percentages in the ingredients statement.

Signature of Approving Official:

Date:

SEP 28 1998

EPA Reg. No. 239-2660
page 2 of 3

- c. In Alternative Sales Copy #1, delete the proposed illustration of damaged wood infested by Carpenter Ants. Effective control of carpenter ants requires the (often difficult) locating and subsequent eliminating of the nest, frequently inside walls, which is not a use for this homeowner outdoor-use only product.
- d. In the Alternative Sales Copy #2 for Garden, add "(as listed)" after "& Many More".
- e. In the Alternative Sales Copy #2 for House Foundation, delete "(including Carpenter Ants)".
- f. In the VEGETABLES & MELONS chart, revise the last column heading to read "DAYS TO WAIT BEFORE HARVEST".
- g. Based on Novartis' latest submission, in the VEGETABLES & MELONS table the crop Onions (Bulb & Green) will have to have its own separate entry since it should show a maximum of 3 applications per year (the application interval of 7 to 10 days and the PHI of 14 remain unchanged).
- h. In the HOME FRUIT & NUT TREES, GRAPES & BERRIES chart, revise the last column heading to read "DAYS TO WAIT BEFORE HARVEST". Be sure to align the numerical entries in this column.
- i. You have indicated that this applicator delivers 2 teaspoons per gallon. While this had been the rate for both ornamentals and food crops on earlier versions of Novartis' (then CIBA's) home diazinon concentrate label, they have now lowered the rate to 1 teaspoon per gallon for vegetable use. Their analysis of their residue data, however, shows that tolerances will not be exceeded up to a 2 teaspoon rate. Given the amount of product which can be dispensed between container markings and because there is less margin at the 2x rate, the AMOUNT TO USE/HOW TO APPLY directions should be revised to discourage user over-application on food crops. Replace the first bullet item with "For Vegetables Melons, Fruit & Nut Trees, Grapes and Berries/ For Food Crops, lightly spray the plant to wet the leaves just to the dripping point. Do not over-apply. For Flowers, Shrubs & Shade Trees/For Ornamentals, spray the plant to wet the leaves and branches to the dripping point. Be sure to spray both upper and lower sides of leaves as pests/bugs live on undersides as well as on the top.
- j. The bee precaution against spraying corn during the pollen shed period is required under the Diazinon Registration Standard and must appear on your label. Expand the second bullet point

EPA Reg. No. 239-2660
page 3 of 3

under the heading **Amount to Use/How to Apply** by adding "Do not apply to corn during the pollen shed period."

- k. In the third bullet item of the **When to Mow & Water** section, add "Stop watering before puddling occurs."
 - l. In the list of pests under the heading **HOME INVADING PESTS (outdoors)**, delete "(including Carpenter Ants)".
 - m. In the **STORAGE** advice revise the first sentence to read "Store in a safe place away from children and pets."
 - n. At the end of the **Hazards to Humans**, add "Do not contaminate ornamental fish ponds."
 - o. 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.

ACCEPTED
with COMMENTS
in EPA Letter Dated

Ortho Diazinon Lock'n Spray Insect Killer
EPA Reg. No. 239-NEW *EAN*

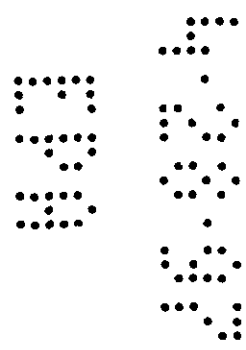
SEP 28 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
239-2660

FOR LOCK'N SPRAY™
This product must not be used on golf courses or sod farms.

[ICON] OUTDOOR USE ONLY
[ICON] WATER BASED

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, One Step Application
Simple and Easy
Just Lock and Spray - Snap'n Spray
Quick
Convenient

Eliminates Mixing and Measuring.
No Mixing or Measuring Necessary
No Mixing - No Measuring - No Mess
No Mix, No Measure, No Messy Clean Up
No Spill, Clean and Convenient to Use
Closed System Prevents Spills
Automatic Locking Closure
Automatically Mixes the Right Amount of Product
Automatic Dilution



CONCENTRATE
Liquid Concentrate
Makes 48 gallons of Spray [16 fl oz size]
Makes 96 Gallons of Spray [32 fl oz size]

For outdoor use on home lawns and home gardens only.

New / Now Water Based Formula
Improved Formula
New / Now Low Odor Formula

For Roses, Flowers, Shrubs, Trees, Fruits, Vegetables, Lawns, & Around House
Foundations
Controls Garden & Lawn Insects
Kills White Grubs

EAN
239-~~new~~.WP1

New Product Application of 4/14/97

Controls White Flies
Kills Black Widow Spiders

NOW EFFECTIVE FOR CODLING MOTHS / CONTROLLING PESTS ON
APPLES & PEARS

Multi-Purpose Bug/Pest Insect Killer

Active Ingredient	
Diazinon.....	22.4%
Inert Ingredients.....	77.6%

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

NET CONTENTS 16 FL OZ (1 PT) 473 mL
32 FL OZ (1 QT) 946 mL

PEEL ▽
HERE

OPEN RESEALABLE LABEL
FOR DIRECTIONS & PRECAUTIONS

PRESS TO RESEAL

FOR USE WITH THE LOCK 'N SPRAY™ SYSTEM
Lock 'N Spray makes lawn and garden care easy. Simply choose the cartridge application that you need and attach it to the sprayer (sold separately) as shown. Eliminates mixing, measuring, and messy clean up. Prevents spills and leaks. *Automatically mixes the right amount of product and water for accurate dosage.*

- Picture 1 Connect sprayer to hose.
- Picture 2 Attach and lock cartridge to sprayer. Make sure sprayer nozzle tip is down.
- Picture 3 Turn on water and spray. When finished spraying the cartridge reseals itself automatically. No spills. No leaks. For complete Lock 'N Spray System directions see inside this label.

[Alternative Sales Copy #1]

Illustrate garden plants and select pests which attack leaves such as aphids.
Illustrate lawn and select lawn pests such as White Grubs, Chinch Bugs, Lawn Moths & Fleas.

Illustrate damaged wood infested by Carpenter Ants.

Illustrate house foundation and select pests such as Ants, Spiders & Ticks.

See inside label for many more uses.

[Alternative Sales Copy #2]

WHERE TO USE	PESTS / BUGS
For the complete list of plants and pests / bugs see inside label.	
Lawn (illustration)	Ants, Fleas, Sod Webworms, Brown Dog Ticks, White Grubs, Mole Crickets Treats 5,000 sq ft of lawn.
Garden (illustration)	Aphids, Cucumber Beetles, Leafhoppers, Mites, Tent Caterpillars, Cabbageworms, Codling Moths, Whiteflies & Many More
House Foundation (illustration)	Ants (including Carpenter Ants), Crickets, Fleas, Brown Dog Ticks, Sowbugs, Spiders (including Black Widow Spiders)

[Alternative Sales Copy #3]

FOR LAWNS, TREES, ROSES, FLOWERS, FRUITS, and VEGETABLES

Controls a wide range of insects on roses, flowers, trees, shrubs, lawns, vegetables, fruits, nuts, and around house foundations.

DO NOT USE ON HUMANS OR ANIMALS.

READ ENTIRE LABEL BEFORE EACH USE.

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

SHAKE WELL

HOW TO USE THE Lock 'N Spray™ SYSTEM

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. Turn cartridge until it clicks into place.

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

Note: when finished spraying, the cartridge reseals itself automatically. No spills. No leaks.

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

ROSES, FLOWERS, SHRUBS, SHADE TREES, VEGETABLES, FRUITS & NUT TREES

See specific plants on following pages.

Pests Controlled

Aphids, Armyworms, Apple and Thorn Skeletonizers, Bagworms, Bean Beetles, Cabbageworms, Cherry Fruit Flies, Codling Moths, Colorado Potato Beetles, Cucumber Beetles, Cutworms, Diamond-Back Moth (larvae), European Pine Shoot Moths, Eyespotted Budmoths, Flea Beetles, Fruitworms (Maggots)*, Grape Berry Moths, Grape Leafrollers, Grasshoppers, Hemlock Woolly Adelgids, Holly Bud Moths, Lacebugs, Leafhoppers, Leafminers*, Leafrollers, Mealybugs, Mexican Bean Beetles, Oak Loopers, Obscure Root Weevils, Omnivorous Leaf-tiers, Pear Psylla, Pear Slugs, Raspberry Sawflies, Scale Crawlers, Spider Mites, Tent Caterpillars, Thrips, Twig Borers, Vinegar Flies, Walnut Caterpillars, Webworms and Whiteflies.

* Resistant Leafminers and Apple Maggots will not be controlled by diazinon or similar type insecticides.

ROSES, FLOWERS, SHRUBS & SHADE TREES

Including Arborvitae, Azalea, Birch, Boxwood, Camellia, Chrysanthemum, Carnation, Crabapple, Dogwood, Douglas Fir, Elm, Euonymus, Gladiolus, Hawthorn, Hemlock, Holly, Juniper, Lilac, Lilies, Locust, Maple, Marigold, Mimosa, Oak, Ornamental Plum, Pine, Poplar, Pyracantha, Rhododendron, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, Yew. (DO NOT use on Ferns, Poinsettia, Hibiscus, Pilea, Gardenia, or Orchids since plant injury may occur.)

VEGETABLES & MELONS	DAYS TO WAIT BETWEEN APPLICATIONS / TREATMENTS	APPLICATIONS / TREATMENTS PER YEAR (Maximum)	DAYS TO WAIT TO HARVEST
Tomatoes	7 to 10	5	1
Melons, Winter Squash	7 to 10	5	3
Peppers	7 to 10	5	5
Beans (fresh only)*, Peas (fresh only)*	7 to 10	3	7
Broccoli, Cauliflower, Cucumbers, Summer Squash, Sweet Corn	7 to 10	5	7
Chinese Broccoli, Chinese Cabbage, Collards, Kale	7 to 10	5	10
Carrots, Endive (Escarole), Lettuce, Onions (Bulb & Green), Parsnips, Radishes, Rutabagas, Spinach, Turnips	7 to 10	5	14
Potatoes	7 to 10	5	35

* This product is registered only for use on fresh beans and peas. Do not use if you plan to grow beans and peas to eat when dried such as pinto beans, dried limas, split peas or dried black-eyed peas.

HOME FRUIT & NUT TREES, GRAPES & BERRIES	DAYS TO WAIT BETWEEN APPLICATIONS / TREATMENTS	APPLICATIONS / TREATMENTS PER YEAR (Maximum)	DAYS TO WAIT TO HARVEST
Apples	14	3	21
Apricots	14	3	21
Cherries	7 to 10	3	21
Nectarines	14	3	21
Peaches	14	3	21
Pears	14	3	21
Plums	7 to 10	3	21
Prunes	7 to 10	3	21
Strawberries	7 to 10	3	5
Caneberries * (For use in California, Oregon and Washington ONLY): Blackberries, Blueberries, Boysenberries, Dewberries, Loganberries & Raspberries	14	5	7
Walnuts * (California only)	14	3	45
Grapes	7 to 10	5	28

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

Amount to Use/ How to Apply

- Spray plant to wet leaves and branches to dripping point. Be sure to spray both upper and lower sides of leaves as pests / bugs live on undersides as well as on top.
- To protect bees, do not spray plants when they or a substantial number of weeds around them are in bloom.
- Each line on cartridge represents the amount of product needed to cover approximately 2800 sq ft (pint) / 5600 sq ft (quart) of vegetables or melons, 1000 sq ft (pint) / 2000 sq ft (quart) of home fruit trees ; 660 sq ft (pint) / 1320 sq ft (quart) of nut trees; 1330 sq ft (pint) / 2660 sq ft (quart) of grapes or strawberries; and 800 sq ft (pint) / 1600 sq ft (quart) of caneberries.

HOME ALMOND TREES - DORMANT SEASON IN CALIFORNIA ONLY

Spray once during the dormant season (before leaves come out) to control San Jose and Parlatoria scale.

HOME LAWNS

Read the ENVIRONMENTAL HAZARDS section before you begin.

Pests Controlled

Pests that live & feed ABOVE GROUND : Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetles, Digger Wasps, Earwigs, Fleas, Fire Flies, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, Pillbugs, Rhodesgrass Scales, Sowbugs, Sod Webworms, Springtails (Collembola). Also aids in controlling Fire Ants.

Pests that live & feed UNDERGROUND: European Crane Fly (larvae), Grubs (Japanese Beetle, May Beetle, European Chafer, Southern Chafer), Mole Crickets, Hyperodes Weevils

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

- Measure lawn . Calculate square feet by multiplying length times width. [walking man icon]
- Spray evenly over entire lawn . Spot treatment may be less effective. Each line on cartridge represents the amount of product needed to cover approximately 450 sq ft (pint) / 900 sq ft (quart) of lawn.

When to Mow & Water

- Apply to lawn that was mowed and watered within the last 24 hours.
- ABOVE GROUND Pests: Do not water for 2 to 3 days after application.
- UNDERGROUND Pests: Water lawn thoroughly after application to move the insecticide into the soil where these pests live and feed.

When to Apply

Wait 4 to 6 weeks between applications.

Grubs & European Crane Fly (larvae): Treat when pests are small and actively feeding near the soil surface. Consult your County Cooperative Extension Agent for the best time to treat.

HOME INVADING PESTS (outdoors)**Pests Controlled (Nuisance Pests Outdoors)**

Ants (including Carpenter Ants), Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Pillbugs,

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

How to Apply / Amount to Use

- To keep insects from entering the house, spray a 3 ft 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 80 linear feet (pint) / 160 linear feet (quart); [400 sq ft (pint), 800 sq ft (quart)]
- Also spray ♦walks, ♦firewood piles, ♦garbage cans, ♦tree trunks, ♦into cracks and other places where insects can hide. **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.

IMPORTANT

DO NOT spray vinyl siding as staining may occur. **DO NOT** use in greenhouses.

STORAGE AND DISPOSAL

STORAGE: Store in original container in a safe place. Keep from freezing.

DISPOSAL: Do not reuse container. Securely wrap partially filled or empty container in newspaper and put in trash.

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. Wear a long sleeved shirt and long legged pants when spraying. Do not spray on windy days. If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body area thoroughly with soap and water, and launder clothing before wearing again. Do not use inside the home. Avoid contamination of food. Do not use on people or animals.

[Reentry Icon] People and pets may enter treated area after spray has dried.

FIRST AID: IF SWALLOWED: Immediately telephone a poison control center, emergency treatment center or a physician for advice. **DO NOT** make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container to an emergency treatment center or hospital. IF IN EYES: Flush eyes with plenty of water. 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 Physician:** 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.

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. Do not apply directly to any body 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.

This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming plants. Do not apply this product or allow it to drift to blooming plants 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

®™ Trademarks of Monsanto Company
©Monsanto Company 1997
SOLARIS®

CIRCLE LOGO: CIBA DIAZINON WATER BASED]
SKUNK LOGO: LOW ODOR CIBA DIAZINON]

Manufactured for
The SOLARIS Group of
Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form 0-102-01
EPA Reg. No. 239-new
EPA Est.
Superscript is first letter of lot number
Made in USA