

PM 19 239-2628

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United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
 Other

OPP Identifier Number
237727

Application for Pesticide - Section I

1. Company/Product Number 239-2628	2. EPA Product Manager Dennis Edwards, Jr. PM# 19	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ORTHO SEVIN Liquid Brand Carbaryl Insecticide Formula II	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
5. Name and Address of Applicant (Include ZIP Code) The SOLARIS Group of Monsanto Company P. O. Box 5006, San Ramon, CA 94583-0906 <input type="checkbox"/> Check if this is a new address		

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION: Submit five copies of draft labeling to add the word "CONCENTRATE" to the front panel as per PR Notice 95-2, #12(b) and 4/9/96 telephone with Steve Morrill, EPA.

NOTIFICATION
JUN 6 1996

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name F. X. Kanienski	Title Registration Specialist	Telephone No. (Include Area Code) (510) 355-3335
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped) MAY 30 AM 10:44 REC'D EPA/OPP/DPD2
2. Signature <i>Francis X. Kanienski</i>	3. Title Registration Specialist	
4. Typed Name Francis X. Kanienski	5. Date May 22, 1996	

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{Icon} OUTDOOR USE ONLY
{Icon} WATER BASED

ORTHO® SEVIN® Liquid Brand Carbaryl Insecticide Formula II
[ABN: ORTHO Sevin Liquid Brand Carbaryl Insecticide₂]

5/22/96 Concentrate

Makes up to 48 gallons of spray {Quart Size}

Kills: Beetles, Caterpillars, Plant Bugs, Gypsy Moth,
Apple Maggots, Tomato Hornworm, and other leaf-
eating insects.

On: Ornamentals, Roses, Flowers, Shrubs, Shade
Trees, Fruit & Nut Trees, Vegetables and Lawns.

Also Controls Ticks which transmit Lyme Disease.

Active Ingredient
Carbaryl (1-naphthyl N-methylcarbamate).....21.3%
Inert Ingredients.....78.7%

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

96 MAY 30 AM 44

RECD EPA/OPP/DPD2

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Kills: Beetles, Caterpillars, Plant Bugs, Gypsy Moth, Apple Maggots, Tomato Hornworm, and other leaf-eating insects.

On: Ornamentals, Roses, Flowers, Shrubs, Shade Trees, Fruit & Nut Trees, Vegetables and Lawns.

Controls Ticks which transmit Lyme Disease.

For Home Use Only.

Peel open for use directions and further information

CAUTION: Harmful if swallowed, avoid breathing of spray mist. SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

PULL HERE TO OPEN LABEL PRESS TO RESEAL

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

©Monsanto Company 1994

Manufactured for
The SOLARIS Group of
Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form RS795-A
Product 6013
EPA Reg No 239-2628
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 LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

Shake container prior to use. Do not use empty container or measuring devices for other purposes. Apply when insects or their damage appear. Repeat as necessary to maintain control, unless spray interval is specified. Do not plant food crops not listed on this label in carbaryl treated soil.

PLANT RESPONSE PRECAUTIONS

Carbaryl insecticide injures Boston Ivy, Virginia Creeper, and Maidenhair Fern. During early season, it may also injure Virginia and Sand Pines.

FOR USE WITH HOSE-END SPRAYERS INCLUDING THE ORTHO DIAL 'n SPRAY® AND TANK-TYPE SPRAYERS.

ORTHO READY-SPRAY DIRECTIONS - HOW TO USE: Connect attached spray nozzle to garden hose. Turn the green water control ON/OFF valve on top of sprayer to the "OFF" position. Turn on water at faucet. Using a coin or key rotate the small green product control valve located near front of nozzle forward to the "OPEN" position. To BEGIN spraying, point spraying nozzle toward plants and turn the green water control ON/OFF valve to "ON" position. The sprayer automatically mixes the product into the spray stream. Spray upper and lower leaf surfaces thoroughly. To STOP spraying, turn green water control ON/OFF valve to "OFF" position. Rotate small green product control valve back to "CLOSED" position. Turn off water at faucet. To relieve pressure on hose, turn the green water control ON/OFF valve to "ON" position before removing nozzle from hose, being careful to point nozzle away from you.

- 1 tsp = Teaspoon
- 1 Tbs = Tablespoon
- 1 Tbs = 1/2 fl oz

RATE TO APPLY: Use 4 tsp of this product per gal of water unless otherwise noted. For use in ORTHO DIAL 'n SPRAY, pour product undiluted into sprayer jar, set dial at 4 tsp per gallon (unless otherwise indicated) and spray. Unused product may be returned to container. Observe plant response precautions and specific directions. Do not exceed dosage rates. The number in parentheses () following each crop refers to the minimum number of days that must be observed between the date of the last application and harvest.

ORNAMENTALS INCLUDING ROSES, SHRUBS, WOODY PLANTS AND TREES

Thorough coverage of upper and lower leaf surfaces and trunks, stems, and twigs is necessary for control of pests.

ORNAMENTAL AND TREE PESTS CONTROLLED

Ants	Grasshoppers	Pine Spittlebug
Apple Aphid	Green Striped Maple- worm	Pitch Pine Tip Moth
Armyworm	Gypsy Moth	Plant Bugs
Azalea Leafminer	Hackberry Nipplegall Maker	Poinsettia Hornworm
Bagworms	Holly Budmoth	Psyllids
Birch Leafminer	Holly Leafminer	Puss Caterpillar
Blister Beetle	Jack Pine Budworm	Redhumped Oakworm
Boxelder Bug	Japanese Beetle	Rose Aphid
Boxwood Leafminer	Jeffrey Pine Needle- miner	Rose Chafer
Browntail Moth	Lace Bugs	Roseslug
Cankerworms	Leafhoppers	Saddled Prominent Caterpillar
Catalpa Sphinx Moth	Leafrollers	Sawflies (exposed)
Chiggers	Locust Borer	Scale Insects
Cooley Spruce Gall Adelgid	Maple Leafcutter	Sowbugs
Cutworms	Mealybug	Spiny Elm Caterpillar
Cypress Tip Moth	Mimosa Webworm	Springtails
Douglas-Fir Tussock Moth	Nantucket Pine Tip Moth	Spruce Budworms
Eastern Spruce Gall Adelgid	Oak Leafminers	Spruce Needleminer
Elm Leaf Aphid	Oak Leaf Skeletonizer	Subtropical Pine Tip Moth
Elm Leaf Beetle	Oakworm Complex	Tent Caterpillar
Elm Spanworm	Oleander Caterpillar	Thrips (exposed)
Eriophyd Mites	Olive Ash Borer	Ticks
European Pine Shoot Moth	Orangestripped Oak- worm	Tree Hoppers
Fall Armyworm	Orange Tortrix	Walnut Caterpillar
Flea Beetles	Periodical Cicada (17 yr. Locust)	Webworm
Fuller Rose Beetle	Pine Sawfly	Western Hemlock Looper
Gall Midges		Western Spruce Budworm
Gall Wasps		Willow Leaf Beetle
		Yellow Poplar Weevil

Combination Spray with Fungicide on Roses: ORTHO FUNGINEX® Rose Disease Control or ORTHO Multi-Purpose Fungicide DACONIL 2787® may be mixed with this product when listed insect(s) and disease(s) are present. Follow directions and precautions on both labels.

VEGETABLE CROPS

Beans - including Black-eyed Peas, Crowder or Southern Peas, Dry Beans, Green Beans, Lima Beans, Navy Beans and Snap Beans (0), Carrots (0), **Corn (0),

Cucumber (0), Eggplant (0), Melons (0), Okra (0), Peanuts (0), Pepper (0), Potato (0), Pumpkin (0), Squash (0), Tomatoes (0).

Broccoli (3), Brussels Sprouts (3), Cabbage (3), Cauliflower (3), Cowpeas (3), Beet Roots (3), **Head Lettuce (3), Horseradish (3), Kohlrabi (3), Parsnips (3), Peas (3), Radishes (3), Rutabagas (3), Salsify Roots (3), Turnip Roots (3).

Chinese cabbage (14), Collards (14), Dandelion (14), Endive (14), Escarole (14), Beet Tops (14), Hanover salad (14), Kale (14), Mustard Greens (14), **Leaf Lettuce (14), Parsley (14), Salsify Tops (14), Spinach (14), Swiss Chard (14), Turnip Tops (14).

For control of all vegetable pests listed below, apply spray to cover upper and lower leaf surfaces.

PESTS CONTROLLED

Alfalfa Caterpillar	Flea Beetles	Sap Beetles
Armyworm	Grasshoppers	Southwestern Corn Borer
Aster Leafhopper	Green Cloverworm	Spittlebugs
Bean Leaf Beetle	Harlequin Bug	Squash Bugs
Blister Beetles	Imported Cabbageworm	Stinkbugs
Chinch Bug	Japanese Beetle	Tarnished Plant Bug
Colorado Potato Beetle	Lace Bugs	Three Cornered Alfalfa Hopper
Corn Earworm	Leafhoppers	Thrips
Corn Rootworm (adults)	Lygus Bugs	Tomato Fruitworm
Cucumber Beetles	Melonworm	Tomato Pinworm
Cutworms	Mexican Bean Beetle	Tortoise Beetles
European Corn Borer	Pickleworm	Velvet Bean Caterpillar
Fall Armyworm	Red-Necked Peanut-worm	

**Specific Directions: Corn - For insects attacking silks and ears, apply at 1 to 6 day intervals starting when first silks appear and continuing until silks begin to dry. For larvae in whorl and foliage feeder, apply as necessary. Optimum timing and good coverage are essential for effective control. Lettuce: Treat on a 5 to 7 day schedule after heads begin to form.

FRUIT, BERRY AND NUT TREE CROPS:

Blueberries (0), Grapes (0), Filberts (0), Pecans (0), Walnuts (0), Apples (1), Cherries (1), Peaches (1), Pears (1), Plums (1), Prunes (1), Strawberries (1), Apricots (3), Nectarines (3), Grapefruit (5), Lemons (5), Limes (5), Oranges (5), Tangelos (5), Tangerines (5), Citrus Citron (5), Kumquats (5), Blackberries (7), Boysenberries (7), Dewberries (7), Loganberries (7), Raspberries (7), Almonds (28).

PESTS CONTROLLED

Apple Aphid	Filbert Aphid	Pear Leaf Blister Mite
Apple Maggot	Filbert Leafroller	Pear Psylla*

Apple Mealybug
 Apple Pandemis
 Apple Rust Mite
 Apple Sucker
 Bagworms
 Black Cherry Aphid
 Black Margined Aphid
 Black Scale*
 Brown Soft Scale*
 Calico Scale
 California Orangedog
 California Pearslug
 (Pear Sawfly)

California Red Scale*
 Cherry Maggot
 Citricola Scale*
 Citrus Cutworm
 Citrus Snow Scale*
 Codling Moth*
 Cucumber Beetles
 Eastern Tent Caterpillar
 European Apple Sawfly
 European Raspberry Aphid

Eyespotted Bud Moth
 Fall Webworm

Filbertworm
 Forbes Scale*
 Fruit Tree Leafroller
 Frosted Scale*
 Grape Leafhopper
 Grape Leaffolder*
 Green Fruitworm
 Hickory Shuckworm
 Japanese Beetle

Leafhoppers
 Leafrollers
 Lecanium Scales*
 Lesser Appleworm
 Lesser Peachtree Borer*
 Lesser Webworm
 Meadow Spittlebug
 Mealy Plum Aphid
 Navel Orangeworm
 Olive Scale*
 Omnivorous Leaf-tier
 (Strawberry fruit-
 worm)
 Orange Tortrix
 Oriental Fruit Moth
 Oyster Shell Scale*
 Peach Twig Borer*

Pear Rust Mite
 Pecan Leaf Phylloxera
 Pecan Nut Casebearer
 Pecan Spittlebug*
 Pecan Weevil
 Periodical Cicada
 Plum Curculio
 Prune Leafhopper

Redbanded Leafroller
 Rose Chafer
 Rosy Apple Aphid
 San Jose Scale*
 Snowy Tree Cricket
 Strawberry Weevil
 Tarnished Plant Bug
 Tentiform Leafminers
 Twig Girdler
 Tussock Moth
 Variegated Leafroller
 Walnut Caterpillar
 Western Grapeleaf
 Skeletonizer
 Western Tussock Moth
 Western Yellowstriped
 Armyworm
 White Apple Leafhopper
 Woolly Apple Aphid

*Specific Directions: For Peach Twig Borer, apply in "popcorn" or petal fall stages and again when the April brood of the Peach Twig Borer begins to hatch or thereafter as needed. For Pear psylla control, apply when eggs hatch or young nymphs are present. For optimum Scale control, apply when crawlers are present. For Grape Leaffolder, apply before first brood Leaffolder larvae emerge from rolls. For Lesser Peachtree Borer control, spray limbs and tree trunks thoroughly, weekly during moth flight. For Codling Moth (on Walnuts), apply spray when average cross sectional diameters of developing nuts are 1/2 to 3/4 inch. Repeat during middle or late June as needed.

Note: For Citrus, do not apply less than 10 gal of dilute spray mixture per 8 - 12" tree. May be mixed with horticultural spray oils commonly used on Citrus.

HOME LAWNS AND HOME RECREATION AREAS
 For best results, mow lawn and apply after watering or rains. Apply sufficient spray volume for thorough coverage. Repeat as necessary.

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LAWN PEST CONTROL TABLE

Pests	Pests	Pests
Ants	Grasshoppers	Bluegrass Billbug
Armyworms**	Leafhoppers	Chinch Bugs*
Centipedes	Lucerne Moth	Sod Webworms**
Chiggers	Millipedes	European Crane Fly Larvae***
Cutworms**	Mosquito (Adult)	(Leather Jacket)
Earwigs	Sowbugs	Fleas
Essex Skippers	Spittlebugs	Whitegrubs (such as larvae of Japanese
Beetle,		
Fall Armyworm**	Springtails	European Chafer, May/June Beetles
Fiery Skipper	Ticks	[Phyllophaga, spp.]****

RATE TO USE: Use 8 fl oz (1 Cup) in 16 gal of water to cover 1500 sq ft (25' x 60') of established lawn (or 1 Tbs in one gal of water to cover 94 sq ft)

RATE TO USE: Use 8 fl oz (1 Cup) in 16 gal of water to cover 675 sq ft (25' x 27') of established lawn (or 1 Tbs in one gal of water to cover 42 sq ft)

FOR USE IN ORTHO DIAL 'n SPRAY HOSE-END SPRAYER:

Pour 8 oz (1 Cup) of undiluted product into sprayer jar. Do not add water. Set dial on sprayer at 1 Tbs per gal and apply evenly over 1500 sq ft (25' x 60') area of lawn.

Pour 8 oz (1 Cup) of undiluted product into sprayer jar. Do not add water. Set dial on sprayer at 1 Tbs per gal and apply evenly over 675 sq ft (25' x 27') area of lawn.

IMPORTANT * For Chinch Bugs: Treat entire area,

****For Armyworm, Cutworm, Fall Armyworm and Sod Webworm:** Do not water treated areas following application.

*****For European Crane Fly (Except in CA):** Apply in early spring April 1 to April 15, or as recommended by local Agricultural Extension Service. Water lawn thoroughly after treatment.

******For White Grub:** Apply when grubs are feeding near the soil surface usually during late March through May, or July to early September or as recommended by local Agricultural Extension Service. Water lawn thoroughly after treatment.

IMPORTED FIRE ANT CONTROL - MOUND TREATMENT (SPRINKLING CAN)

Use 1 fl oz per gal of water. Apply 2 gal of diluted solution over each mound. Thoroughly wet mound and surrounding areas to a 4 ft diameter. Do not disturb mounds prior to treatment. For best results, apply in cool weather, 65 to 80°F, or in early morning or late evening. Repeat application if activity resumes after 10 days.

Treat new mounds as they appear.

CONTROL OF TICKS WHICH TRANSMIT LYME DISEASE

For control of Deer, Bear, Black Legged, and Lone Star Ticks Apply two Tbs (1 fl oz) per gallon of water. With DIAL 'n SPRAY pour product into sprayer jar (do not add water). Set dial at 1 oz per gal of water and spray to wet foliage.

Begin applications in late spring or early summer (May/June). Thoroughly treat entire turf area, shrub-beds, ornamental plantings, wooded areas, and around outside perimeters of homes/buildings where exposure to ticks may occur. Retreat at 3 to 4 week intervals until late fall, since ticks may be reintroduced from surrounding areas by animals.

ADULT MOSQUITO CONTROL IN YARDS AND HOME RECREATION AREAS

For application to shade trees, ornamentals, woody plants and shrubs, apply 1 to 2 Tbs per gal of water. Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early morning or later evening. Repeat at 7 to 10 day intervals. (Note: Carbaryl may kill shrimp and crabs; Observe Bee caution.)

PEST CONTROL AROUND OUTSIDE OF BUILDINGS

(HOMES, BARNS)

To Control: Brown Dog Ticks, Fleas, Earwigs, Millipedes, Silverfish. Apply at the rate of 7 oz/gal of water as a coarse wet spray to outside perimeter of dwellings and other areas where insects tend to congregate. Do not apply this rate to foliage of plants.

HOME POULTRY ROOSTS AND CHICKEN COOPS

To Control: Bed Bugs, Chicken Mites, Fleas, Lice, Northern Fowl Mite. Use 5 Tbs per gal of water. Apply at the rate of 12 to 25 oz of spray mixture per 100 sq ft of wall, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid contamination of nests, eggs and feeding and watering troughs. Do not treat premises within 7 days of slaughter.

STORAGE AND DISPOSAL

STORAGE: Keep pesticide in original container, in cool, dry area out of reach of children and animals, preferably in a locked storage area. Do not store in areas where temperatures frequently exceed 100°F. After use, replace cap on insecticide container. Rinse hose-end unit outdoors with clear water.

DISPOSAL: PRODUCT-Partially filled containers may be disposed of by securely wrapping original container in several layers of newspaper and discarding in trash.

CONTAINER-Do not reuse empty container. Rinse thoroughly before discarding in trash. Securely wrap in several layers of newspaper and discard in trash.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, avoid breathing of spray mist. Do not take internally. Avoid contact with eyes, skin or clothing. Wear regular long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling.