

239-2628

1/3/2000

Page 1 of 13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Sheila R. Kendrick
The Scotts Company
14111 Scottslawn Road
Marysville, Ohio 43041

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

JAN 3 2000

Subject: Ortho Sevin Liquid Brand Carbaryl Insecticide
EPA Registration No. 239-2628
Amendment dated October 22, 1999
Label amendments as per the GDE dated August 6, 1999.

Dear Ms. Kendrick:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you make the labeling change indicated below before you release the product for shipment bearing the amended labeling:

1. Align the percentage of carbaryl so that it is directly over the percentage of the other ingredients on page 1 of the label.
2. Correct the spelling of "Spnaish" to "Spinach" on page 4 of the label.
3. Under the heading "Ticks Which Transmit Lyme Disease" delete the word "at" in the statement "Apply every at 3 to 4 weeks until late fall, since ticks may be reintroduced from surrounding areas by animals" on page 9 of the label.

A stamped copy of the labeling is enclosed for your records. Submit two copies of your final printed labeling before you release the product for shipment.

Sincerely,

George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

2 9 13

ORTHO® SEVIN® Liquid Brand Carbaryl Insecticide Formula II, EPA Reg. No 239-2628
[ABN: ORTHO Sevin® Liquid Brand Carbaryl Insecticide₂]

{/con}OUTDOOR USE ONLY
{/con}WATER BASED

Concentrate
Makes up to 48 gallons of spray {Quart Size}
Makes up to 24 gallons of spray {Pint Size}

Kills: Beetles (including Japanese Beetle), Caterpillars (including Tent Caterpillar,, Gypsy Moth & Tomato Hornworm), Plant Bugs, Apple Maggots, Ants, Fleas, Mosquito adults, Ticks and many more/other leafeating insects

On: Ornamentals, Roses, Flowers, Shrubs, Trees, Shade Trees, Fruits, Vegetables and Lawns.

Also Controls Ticks which transmit Lyme Disease.

Active Ingredient
Carbaryl.....21.3%
Other Ingredients.....78.7%

KEEP OUT OF REACH OF CHILDREN
CAUTION
See back panel booklet for additional precautionary statements

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

with CE...
In EPA...
JAN 3 2000
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for use... registered under EPA Reg. No. 239-2628

3 9 13

PEEL
HERE

**OPEN RESEALABLE LABEL
FOR DIRECTIONS & PRECAUTIONS.**

Specially formulated for residential use.

PRESS TO RESEAL

Easy to apply with the ORTHO® Dial 'n Spray®, other hose-end sprayer, or tank sprayer.

FOR USE WITH HOSE-END SPRAYERS INCLUDING THE ORTHO DIAL 'n SPRAY® , TANK-TYPE AND READY-SPRAY[8/20/97] SPRAYERS.

Product Facts [12/18/97]	
KILLS INSECTS	Beetles (including Japanese Beetle), Caterpillars (including Tent Caterpillar, Gypsy Moth & Tomato Hornworm), White Grubs, Ants, Fleas, Mosquito adults, Ticks (including Ticks which transmit Lyme Disease) & many more
WHERE TO USE	• Roses, Flowers, Trees, Shrubs, Fruits, Vegetables • Home Lawns & Home Recreation Areas
AMOUNT TO USE	4 tsp per gal of water (for Roses, Flowers, Trees, Shrubs, Fruits & Vegetables) 1 Tbs (3 tsp) per gal of water (for Home Lawns & Home Recreation Areas) 1 fl oz (2 Tbs) per gal of water (for Ticks which transmit Lyme Disease)
	Questions, Comments or Medical Information call 1-800-225-2883 http://www.ortho.com

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 BEFORE USE

Apply when air is calm to avoid drift and contact with eyes and skin. Start spraying at the farthest corner of the treatment area and work backward to avoid contact with wet surfaces. Allow spray to dry in treated areas before reentry.

ROSES, FLOWERS, TREES, SHRUBS, SHADE TREES PLUS LISTED FRUITS AND VEGETABLES

For trees taller than 10 feet, consider hiring a licensed professional. Spray thoroughly to wet upper and lower leaf surfaces, stems and branches.

DO NOT spray Boston Ivy, Virginia Creeper, Maidenhair Fern, **Virginia Pine or Sand Pine** as damage may occur.

INSECTS

[12/18/97]: Insects on Roses, Flowers, Trees & Shrubs: Including Aphids (Elm Leaf & Rose), Bagworms, Blister Beetle, Cankerworms, Douglas Fir Tussock Moth, Elm Leaf Beetle, Flea Beetles, Grasshoppers, Gypsy Moth, Japanese Beetle, Lacebugs, Leafminers (Azalea, Birch, Boxwood, Holly & Oak), Leafrollers, Periodical Cicada (17 yr Locust), Pitch Pine Tip Moth, Plant Bugs, Psyllids, Rose Chafer, Roseslug, Sawflies (exposed), Scales, Tent Caterpillar, Thrips (exposed), Webworms & many more

Insects on Vegetables & Melons: Including Armyworms, Bean Leaf Beetle, Colorado Potato Beetle, Corn Earworm, Cucumber Beetles, Cutworms, European Corn Borer, Flea Beetles, Grasshoppers, Imported Cabbageworm, Japanese Beetle, Lacebugs, Leafhoppers, Melonworm, Mexican Bean Beetle, Squash Bugs, Stinkbugs, Tarnished Plant Bug, Thrips, Tomato Hornworm & many more

MIXING INSTRUCTIONS

- **Amount to Use:** 4 tsp per gallon of water.
- **Sprayers:**
 - **Tank Sprayer:** Add 4 tsp to 1 gallon of water.
 - **Ortho Dial'n Spray® Hose End Sprayer:** For every gallon of spray needed, add 4 tsp of product to the sprayer jar. **DO NOT** add water. Regardless of the amount in the jar, set the dial to 4 tsp. Unused product may be returned to product container.

1 tsp = Teaspoon

1 Tbs = Tablespoon = 1/2 fl oz

ALTERNATE TEXT FOR MIXING INSTRUCTIONS [12/18/97]

MIXING INSTRUCTIONS

For Roses, Flowers, Trees, Shrubs, Fruits, Vegetables & Nuts

Amount to Use: 4 tsp per gal of water

[DNS illustration] When using Ortho® Dial 'n Spray®: Set dial to 4 tsp. For 3 gal of spray add 2 fl oz (4 Tbs) to sprayer jar. **DO NOT ADD WATER.** After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp) 1 fl oz = 2 Tbs 8 fl oz = 1 cup

WHEN TO APPLY

I. Apply as noted.

II. Specific Directions

- Scales: Apply when crawlers are present for best results.
- Corn: For insects attacking silks and ears, apply when first silks appear and continuing until silks begin to dry.

PLANTS	DAYS TO WAIT TO RE-TREAT	DAYS TO WAIT TO HARVEST
BEANS (FRESH AND DRIED), PEAS, COWPEAS	7	3 (succulent) 21 (dried) 14 (forage)
CABBAGE, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER KOHLRABI, CHINESE CABAGE, KALE, COLLARDS	3	Brussels sprouts, Broccoli, Cabbage, Kohlrabi, Cauliflower: 3 Chinese cabbage, Kale, Collards: 14
CORN (field and pop)	14	14 (forage, silage) 48 (grain, fodder)
CORN (sweet)	3	3 (ears) 14 (forage) 48 (fodder)
CUCUMBERS MELONS, SQUASH Do not use this product on watermelons in Florida.	7	3
CARROTS, BEETS (roots), RADISHES, PARSNIPS, TURNIPS (roots) HORSERADISH RUTABAGA, SALISFY	7	7
LETTUCE (head and leaf), ENDIVE, HANOVER SALAD, SWISS CHARD, PARSLEY, SPNAISH, BEETS (tops), TURNIPS (tops)	7	14-15

MUSTARD GREENS	7	13-14
POTATOES, EGGPLANT, PEPPERS	7	Potatoes: 7 Eggplant, Peppers: 3
STRAWBERRIES	7	7
TOMATOES	7	3

PESTS/INSECTS CONTROLLED

ROSES, FLOWERS, TREES & SHRUBS

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

MELONS & LISTED VEGETABLES

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 Hornworm
Cutworms	Mexican Bean Beetle	Tomato Pinworm
European Corn Borer	Pickleworm	Tortoise Beetles
Fall Armyworm	Red-Necked worm	Peanut Velvet Bean Caterpillar

STRAWBERRIES

Meadow Spittlebugs
Strawberry Leafroller
Strawberry Weevils

COMBINATION SPRAY WITH FUNGICIDE ON ROSES:

ORTHO RosePride FUNGINEX® Rose & Shrub Disease Control or ORTHO® Multi-Purpose Fungicide DICONIL 2787® Plant Disease Control may be mixed with this product when listed insect(s) and disease(s) are present. Follow directions and precautions on both labels.

HOME LAWNS AND HOME RECREATION AREAS**MIXING INSTRUCTIONS**

IV. **Amount to Use:** 1 Tbs (3 tsp) per gallon of water.

V. **Sprayers:**

H. **Tank Sprayer:** Add 1 Tbs (3 tsp) to 1 gallon of water.

I. **Ortho Dial'n Spray® Hose End Sprayer:** For every gallon of spray needed, add 1 Tbs (3 tsp) of product to the sprayer jar. **DO NOT** add water. Regardless of the amount in the jar, set the dial to 1 Tbs. Unused product may be returned to product container.

ALTERNATE MIXING INSTRUCTIONS [12/18/97]**MIXING INSTRUCTIONS****For Home Lawns & Home Recreation Areas**

Amount to Use: 1 Tbs per gal of water

[DNS illustration] When using Ortho® Dial 'n Spray®: Set dial to 1 Tbs. For 16 gal of spray add 16 Tbs (8 fl oz) to sprayer jar. **DO NOT ADD WATER.** Spray evenly over "AREA TO TREAT" (675 or 1,500 sq ft) as indicated for the insects above.

1 Tablespoon (Tbs) = 3 teaspoons (tsp) 1 fl oz = 2 Tbs 8 fl oz = 1 cup

INSECTS/PESTS CONTROLLED	AREA TO TREAT
Ants, Armyworms, Centipedes, Chiggers, Cutworms, Earwigs, Essex Skippers, Fall Armyworm, Fiery Skipper, Grasshoppers, Leafhoppers, Lucerne Moth, Millipedes, Mosquitoes Adults, Sowbugs, Spittlebugs, Springtails & Ticks	16 Tbs Sevin® Liquid in 16 gal of water treats 1,500 sq ft.
Bluegrass Billbug, Chinch Bugs, Sod Webworms, European Crane Fly Larvae (Leather Jacket), Fleas & White Grubs (such as larvae of Japanese Beetle, European Chafer, May/June Beetles))	16 Tbs Sevin® Liquid in 16 gal of water treats 675 sq ft.

WHEN TO MOW & WATER

- 1. VII. Mow and water lawn before application.
- II. For European Crane Fly larvae and White Grubs, water lawn thoroughly after application.
- III. For all other insects, do not water lawn for 2 to 3 days after application.

WHEN TO APPLY

- I. Apply as necessary to maintain control, but not more often than once weekly.
- II. Specific Directions
 - A. **European Crane Fly larvae**(Except in CA): Apply in early spring April 1 to April 15, or as recommended by your County Cooperative Extension Agent.
 - B. **White Grubs**: Apply when grubs are feeding near the soil surface usually during late March through May , or July to early September, or as recommended by your County Cooperative Extension Agent.

FIRE ANT MOUNDS

MIXING INSTRUCTIONS
X. Amount to Use: 1 fl oz (2 Tbs) per gallon of water. J. Sprinkling Can: Add 2 fl oz to 2 gallons of water and apply over and 4 feet around mound.

WHEN TO APPLY

- XI. Apply in cool weather, 65 to 80°F, or in early morning or late evening.
 - I. Repeat application if activity resumes after 10 days.
 - II. Treat new mounds as they appear.

TICKS WHICH TRANSMIT LYME DISEASE

Deer, Bear, Black Legged and Lone Star Ticks

[12/18/97]

XV Use 1 fl oz (2Tbs) per gal of water. 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. (DO NOT apply to vinyl siding as staining may occur.)
I. Apply every at 3 to 4 weeks until late fall, since ticks may be reintroduced from surrounding areas by animals.

ADDITIONAL USES

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 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, BARNES)

(DO NOT apply to vinyl siding as staining may occur.)

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: Store in original container in a safe place. Do not store in areas where temperatures frequently exceed 100°F.

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

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing.

USER SAFETY REQUIREMENTS

- | |
|---|
| <p>XV. Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when mixing and applying this product.</p> <p>XVI. Wear a hat and eye protection when making overhead applications.</p> <p>XVII. Remove clothing immediately if pesticide soaks clothing. Change clothing as soon as possible after use.</p> <p>XVIII. Wash the outside of gloves before removing. As with any pesticide product, wash thoroughly immediately after handling and before eating, smoking or using the toilet.</p> <p>(reentry icon) Do not allow children or pets to contact treated area until sprays have dried.</p> |
|---|

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 ON SKIN:** wash with plenty of soap and water. Get medical attention if irritation persists. **IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. **Note to Physician:** Emergency Information call 1-800-225-2283 Carbaryl is a moderate, reversible

cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates, or cholinesterase inhibiting drugs.

ENVIRONMENTAL HAZARDS: This product is extremely toxic to aquatic and estuarine invertebrates and toxic to birds and other wildlife. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS. This product is highly toxic to bees exposed to direct treatment or residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. Contact your County Cooperative Extension Agent for further information.

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

or:

☎ **Questions, Comments or Medical Information?**
Call 1-800-225-2883 <http://www.ortho.com>

ORTHO®, DIAL'n SPRAY® SOLARIS® Registered trademarks of Monsanto Company

DACONIL 2787® Registered trademark of ISK Biosciences Corporation .

SEVIN® is the registered trademark of Rhone-Poulenc for carbaryl insecticide.

FUNGINEX® Trademark of American Cyanamid Company

©Monsanto Company 1997

Manufactured for
The SOLARIS Group of
Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form 0-725-03
EPA Reg No 239-2628
EPA Est. 239-IA-3¹, 58996-MO-1^A
Superscript is first letter of lot number.
Made in USA

[8/20/97]

HOW TO USE [8/20/97]

READY-SPRAY DIRECTIONS

A. ORTHO SPRAYER

- o **Connect sprayer** to hose. Be sure on/off switch is set to "OFF". Turn on water.
- o Use coin or key to **rotate** small green **button** to "OPEN".
- o To begin spraying, point nozzle in the direction you want to spray. **Turn on/off switch** forward to "ON".
- o To stop spraying, turn on/off switch back to "OFF". Rotate small green button to "CLOSED". Turn off water.
- o To relieve water pressure, turn switch to "ON" until water slows to a drip. Turn switch back to "OFF". disconnect from garden hose and store in a safe place.

[OR]

B. HAYES BUTTON SPRAYER

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