

PM 119 239-2628 1047



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

EPA Reg. Number:
239-2628

Date of Issuance:
JUN 17 1993

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance: **Until**
Reregistration

Name of Pesticide Product:
**ORTHO SEVIN^(R) Liquid
brand carbaryl II
Insecticide Formula**

Name and Address of Registrant (include ZIP Code):

**Chevron Chemical Company
Ortho Consumer Product Division
940 Hensley Street
Richmond, CA 94804-0036**

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/reregistration 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 or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the following label changes:

a. Add the phrase "EPA Registration No. 239-2628."

b. The text to the Environmental Hazards Statement must read, "This product is extremely toxic to aquatic and estuarine invertebrates and toxic to birds and other wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters."

Signature of Approving Official:

DENNIS H. EDWARDS

Date:

JUN 17 1993

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3. Submit five (5) copies of the revised final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely,

DENNIS H. EDWARDS

Dennis H. Edwards, Jr.
Product Manager 19
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

ORTHO SEVIN ® Liquid brand carbaryl insecticide Formula II

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: May be 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.

STATEMENT OF PRACTICAL TREATMENT: IF SWALLOWED: Induce vomiting and seek medical attention immediately. **IF IN EYES OR ON SKIN:** Flush eyes with plenty of water. Wash skin thoroughly with soap and water. **Note To Physician:** Emergency Information - call 1-800-457-2022

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. Do not apply directly to water and wetlands. Do not contaminate water by cleaning equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated.

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

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 reuse empty container. 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. **FOR HOME USE ONLY.**

PLANT RESPONSE PRECAUTIONS

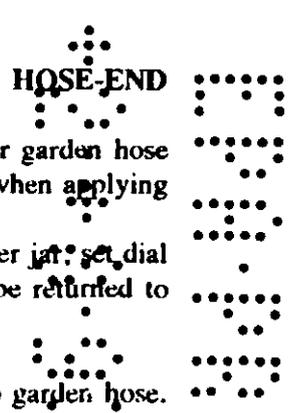
Carbaryl insecticide injures Boston Ivy, Virginia Creeper, and Maidenhair Fern. During early season, it may also injure Virginia and Sand Pines.

FOR USE WITH HOSE-END SPRAYERS (INCLUDING THE ORTHO DIAL'N SPRAY* HOSE-END SPRAYER) AND TANK-TYPE SPRAYERS

This product readily mixes in water to form a spray that can be applied with tank-type sprayers or garden hose sprayers to the crops listed. To ensure adequate coverage, use moderate to high water pressures when applying through hose-end sprayers.

NOTE: For use in ORTHO DIAL'N SPRAY Hose-end Sprayer, pour product undiluted into sprayer jar, set dial at 4 tsp. per gallon (unless otherwise indicated) and spray to wet foliage. Unused product may be returned to original container.

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.



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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 for hose, being careful to point nozzle away from you.

RATE TO APPLY: USE 4 TEASPOONS (tsp.) OF THIS PRODUCT PER GALLON OF WATER UNLESS OTHERWISE NOTED. 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 THE DATE OF HARVEST.

ORNAMENTALS (INCLUDING ROSES AND OTHER HERBACEOUS PLANTS), SHRUBS, WOODY PLANTS AND TREES (INCLUDING SHADE TREES):

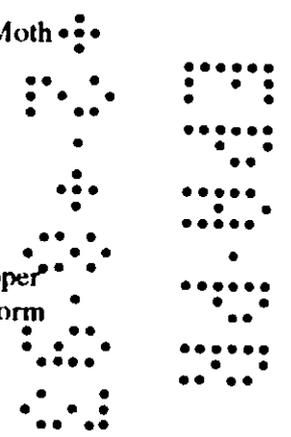
Thorough coverage of upper and lower leaf surfaces and trunks, stems, and twigs is necessary for optimum control of tree and ornamental pests.

ORNAMENTAL AND TREE PESTS CONTROLLED

Ants
 Apple Aphid
 Armyworm
 Azalea Leafminer
 Bagworms
 Birch Leafminer
 Blister Beetle
 Boxelder Bug
 Boxwood Leafminer
 Browntail Moth
 Cankerworms
 Catalpa Sphinx Moth
 Chiggers
 Cooley Spruce Gall Adelgid
 Cutworms
 Cypress Tip Moth
 Douglas-Fir Tussock Moth
 Eastern Spruce Gall Adelgid
 Elm Leaf Aphid
 Elm Leaf Beetle
 Elm Spanworm
 Eriophyd Mites
 European Pine Shoot Moth
 Fall Armyworm
 Flea Beetles
 Fuller Rose Beetle
 Gall Midges
 Gall Wasps

Grasshoppers
 Green Striped Mapleworm
 Gypsy Moth
 Hackberry Nipplegall Maker
 Holly Budmoth
 Holly Leafminer
 Jack Pine Budworm
 Japanese Beetle
 Jeffrey Pine Needleminer
 Lace Bugs
 Leafhoppers
 Leafrollers
 Locust Borer
 Maple Leafcutter
 Mealybug
 Mimosa Webworm
 Nantucket Pine Tip Moth
 Oak Leafminers
 Oak Leaf Skeletonizer
 Oakworm Complex
 Oleander Caterpillar
 Olive Ash Borer
 Orangestripped Oakworm
 Orange Tortrix
 Periodical Cicada (17 yr Locust)
 Pine Sawfly
 Pine Spittlebug
 Pitch Pine Tip Moth

Plant Bugs
 Poinsettia Hornworm
 Psyllids
 Puss Caterpillar
 Redhumped Oakworm
 Rose Aphid
 Rose Chafer
 Roseslug
 Saddled Prominent Caterpillar
 Sawflies (exposed)
 Scale Insects
 Sowbugs
 Spiny Elm Caterpillar
 Springtails
 Spruce Budworms
 Spruce Needleminer
 Subtropical Pine Tip Moth
 Tent Caterpillar
 Thrips (exposed)
 Ticks
 Tree Hoppers
 Walnut Caterpillar
 Webworm
 Western Hemlock Looper
 Western Spruce Budworm
 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.

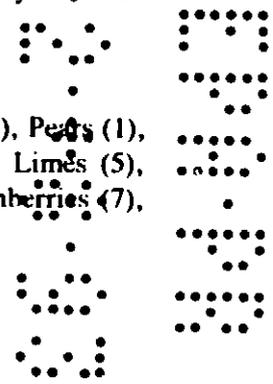
VEGETABLE PESTS CONTROLLED

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

**** 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).



FRUIT, BERRY AND NUT TREE PESTS CONTROLLED

Apple Aphid	Filbert Aphid	Pear Leaf Blister Mite
Apple Maggot	Filbert Leafroller	Pear Psylla*
Apple Mealybug	Filbertworm	Pear Rust Mite
Apple Pandemis	Forbes Scale*	Pecan Leaf Phylloxera
Apple Rust Mite	Fruit Tree Leafroller	Pecan Nut Casebearer
Apple Sucker	Frosted Scale*	Pecan Spittlebug*
Bagworms	Grape Leafhopper	Pecan Weevil
Black Cherry Aphid	Grape Leaffolder*	Periodical Cicada
Black Margined Aphid	Green Fruitworm	Plum Curculio
Black Scale*	Hickory Shuckworm	Prune Leafhopper
Brown Soft Scale*	Japanese Beetle	Redbanded Leafroller
Calico Scale	Leafhoppers	Rose Chafer
California Orangedog	Leafrollers	Rosy Apple Aphid
California Pearslug	Lecanium Scales*	San Jose Scale*
(Pear Sawfly)	Lesser Appleworm	Snowy Tree Cricket
California Red Scale*	Lesser Peachtree Borer*	Strawberry Weevil
Cherry Maggot	Lesser Webworm	Tarnished Plant Bug
Citricola Scale*	Meadow Spittlebug	Tentiform Leafminers
Citrus Cutworm	Mealy Plum Aphid	Twig Girdler
Citrus Snow Scale*	Navel Orangeworm	Tussock Moth
Codling Moth*	Olive Scale*	Variegated Leafroller
Cucumber Beetles	Omnivorous Leaf-tier	Walnut Caterpillar
Eastern Tent Caterpillar	(Strawberry Fruitworm)	Western Grapeleaf
European Apple Sawfly	Orange Tortrix	Skeletonizer
European Raspberry Aphid	Oriental Fruit Moth	Western Tussock Moth
Eyespotted Bud Moth	Oyster Shell Scale*	Western Yellowstriped
Fall Webworm	Peach Twig Borer*	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 gallons 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 optimum control of lawn pests, it is essential to provide good penetration of the turf. For best results, grow lawn and make applications after watering or rains. Apply in sufficient spray volume for thorough coverage and turf thatch penetration. Repeat as necessary.

7.2.1

LAWN PEST CONTROL TABLE

<u>PESTS</u>		<u>PESTS</u>
Ants	Grasshoppers	Bluegrass Billbug
Armyworms **	Leafhoppers	Chinch Bugs *
Centipedes	Lucerne Moth	Sod Webworms **
Chiggers	Millipedes	European Crane Fly Larvae*** (Leather Jacket)
Cutworms **	Mosquito (adult)	Fleas
Earwigs	Sowbugs	Whitegrubs (such as larvae of Japanese Beetle, European chafer, May/June Beetles [Phyllophaga, spp.]) ****
Essex Skippers	Spittlebugs	
Fall Armyworm **	Springtails	
Fiery Skipper	Ticks	
RATE TO USE: Use 8 fl. oz. (1 Cup) in 16 gallons of water to cover 1500 sq. ft. (25' x 60') of established lawn (or 1 tablespoon in one gallon of water to cover 94 sq. ft.)		RATE TO USE: Use 8 fl. oz. (1 Cup) in 16 gallons of water to cover 675 sq. ft. (25' x 27') of established lawn (or 1 tablespoon in one gallon 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 Tablespoon per gallon 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 tablespoon per gallon and apply evenly over 675 sq. ft. (25' x 27') area of lawn.

IMPORTANT * For Chinch Bugs: Treat entire area rather than just damaged areas. Watering lawn before applying insecticide will aid in penetration into turf grass.

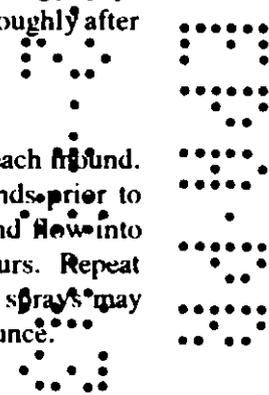
**** For Armyworm, Cutworm, Fall Armyworm and Sod Webworm:** Do not water treated areas following insecticide application.

***** For European Crane Fly (Except in CA):** Treatments should be applied 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 gallon of water. Apply a total of 2 gallons of the diluted solution over the surface of each mound. Thoroughly wet mound and surrounding areas to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about 3 ft. to give sufficient force to break mound apex and flow into ant tunnels. For best results, apply in cool weather, 65 to 80°F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness. 1 Tablespoonful = 1/2 fluid ounce.



CONTROL OF TICKS WHICH TRANSMIT LYME DISEASE

For control of juvenile and adult *Ixodes* spp. Ticks (Deer Tick, Bear Tick and Black Legged tick) and *Amblyomma* spp. Ticks (Lone Star Tick): Apply at the rate of two tablespoonsful (1 fluid ounce) per gallon of water using a hose-end or tank-type sprayer. Note: For use with an ORTHO DIAL'n SPRAY Hose-End Sprayer. Pour product undiluted into sprayer jar (do not add water). Set dial at 1 oz. per gallon of water and spray to wet foliage. Unused concentrate may be returned to original container.

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 the late fall to reduce presence of ticks, 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 tablespoonsful per gallon 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 days 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 tablespoonsful per gallon of water. Apply at the rate of 12 to 25 ounces 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.

PRODUCT DISPOSAL: Partially filled containers may be disposed of by securely wrapping original container in several layers of newspaper and discarding in trash. Do not contaminate water, food, or feed by storage or disposal of wastes. Discard unused pesticide spray mixture in a safe place away from water supplies.

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

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

Chevron Chemical Company *1993
Ortho Consumer Products Division
P. O. Box 5047
San Ramon, CA 94583-0947
Form C442-A Product 6013
EPA REG. NO. 239-
EPA EST 239-M0-1

