

PM 19

264-315-

Kille 1 of 11



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

JAN 14 1994

Larry R. Hodges  
RHONE-POULENC AG COMPANY  
BOX 12014  
RESEARCH TRIANGLE PARK, N.C. 27709

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/22/93 In Response to PR Notice 93-7  
EPA Reg. No. 264-315  
SEVIN BRAND 85 SPRAYABLE CARBARYL INSECTICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy Canada Ink on paper that  
contains at least 50% recycled fiber

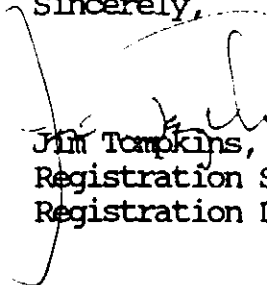
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Larry R. Hodges  
RHONE-POULENC AG COMPANY  
BOX 12014  
RESEARCH TRIANGLE PARK NC 27709

Subject: Label Amendment Submission of 07/22/93  
to Comply with WPS Labeling Requirements  
EPA Reg Nr. 264-315  
SEVIN BRAND 85 SPRAYABLE CARBARYL INSECTICIDE

The following specific comments pertain to your  
WPS labeling submission concerning the product  
cited above:

Insert the following statement above the Agricultural Use  
Requirements box: "Do not apply this product in a way that  
will contact workers or other persons, either directly or  
through drift. Only protected handlers may be in the area  
during application. For any requirements specific to your  
State or Tribe, consult the agency responsible for pesticide  
regulation." The exact location is shown in Section F on  
Part 2 of the Product Worksheet in Supplement Three-A to PR  
Notice 93-7.

There is a ~~typographical error(s)~~ in the Spanish language text. *Delete*

4 of 11

AGREED TO  
with COMMENTS  
In EPA Letter Dated

# SEVIN® brand 85 Sprayable

## CARBARYL INSECTICIDE

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 264-315

### For Agricultural or Commercial Use Only

#### For Control of Insect Pests

ACTIVE INGREDIENT: Carbaryl (1-naphthyl N-methylcarbamate) .....	.85% by wt.
INERT INGREDIENTS: .....	.15% by wt.
E.P.A. Reg. No. 264-315	E.P.A. Est. No. 10352-GA-01

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

For **EMERGENCY** Information **ONLY** Call 24 Hours A Day 1-800-334-7577  
For **PRODUCT USE** Information Call 1-800-334-9745

### STATEMENT OF PRACTICAL TREATMENT

Carbaryl is an N-Methyl Carbamate Insecticide.

Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and **SHOW A COPY OF THIS LABEL TO THE PHYSICIAN.**

**IF SWALLOWED:** Never give anything by mouth to an unconscious or convulsing person. If conscious and not convulsing, drink 1 to 2 glasses of water and induce vomiting by touching the back of the throat with finger.

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**IF ON SKIN:** Wash thoroughly with soap and water.

**IF INHALED:** Move from contaminated atmosphere and call a physician.

#### ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. See NOTE TO PHYSICIAN.

#### NOTE TO PHYSICIAN

Carbaryl is an N-methyl carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent overatropinization. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully atropinized, then intramuscularly every 30 to 60 minutes to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analyses will be arranged by Rhone-Poulenc Ag Company.

Consultation on therapy can be obtained at all hours by calling the Rhone-Poulenc emergency number 1-800-334-7577.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

##### WARNING

**MAY BE FATAL IF SWALLOWED.** Avoid breathing of dust or spray mist. Do not take internally. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT:**

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and chemical-resistant headgear for overhead exposure.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply SEVIN® brand 85 Sprayable Carbaryl Insecticide through any type of irrigation system. This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from area treated. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wastes. 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 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. Contact your Cooperative Agricultural Extension Service or your local Rhone-Poulenc Ag Company representative 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 the entire label before using this product. Strictly observe label directions and cautions. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks, and chemical-resistant headgear for overhead exposure.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Keep unprotected persons out of treated areas until sprays have dried.

## STORAGE AND DISPOSAL

### STORAGE

Store unused SEVIN® brand 85 Sprayable Carbaryl Insecticide in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100° F.

### PESTICIDE DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If bag is burned, stay out of smoke.

## GENERAL INFORMATION

SEVIN® brand 85 Sprayable Carbaryl Insecticide is a micro-fine powder for dispersion to water and application as an insecticidal spray in hydraulic sprayers, mist blowers, low-volume ground equipment and aircrafts. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS.

### PREHARVEST AND GRAZING USE INFORMATION AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat and milk. This product may be applied up to and including the day of harvest or grazing of forage crops. Application may be made without removing livestock from area being treated.

**Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.**

Do not use reclaimed irrigation water from crops treated with carbaryl on upland crops for which carbaryl tolerances are not established.

### PLANT RESPONSE PRECAUTIONS

To avoid possible injury to tender foliage, do not apply to wet foliage or when rain or high humidity is expected during the next two days.

Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury will result. During early season, it may also injure Virginia and sand pines.

Observe label instructions on apple thinning and on combinations with certain herbicides on rice.

### SPRAY PREPARATION

TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR OR RECIRCULATE ALL "SEVIN®" BRAND 85 SPRAYABLE CARBARYL INSECTICIDE SPRAY MIXTURES PRIOR TO AND DURING USE. Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush with clean water. Fill spray or mix tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SEVIN® brand 85 Sprayable Carbaryl Insecticide and then the remaining volume of water. Prepare only as much spray mixture as can be applied on the day of mixing. MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURE FOR PROLONGED PERIODS.

## COMPATIBILITY

Compatibility of SEVIN® brand 85 Sprayable Carbaryl Insecticide with spray formulations of other pesticides is not fully known. Before preparing large amounts, combinations should be tested on a small scale. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. Incompatibility will reduce insect control and may cause mechanical difficulties or plant injury. Observe all cautions and limitations on labeling of all products used in mixtures. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD "SEVIN®" BRAND 85 SPRAYABLE CARBARYL INSECTICIDE TO AT LEAST 1/2 THE DESIRED AMOUNT OF WATER, MIX THOROUGHLY, AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICATION PROBLEMS, EXCESSIVE RESIDUES OR PLANT INJURY.

Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein-lime spreaders.

## APPLICATION

On all crops use sufficient gallonage to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. Use 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles. Avoid applications just before rainfall as poor insect control may result. To clean spray system after use, drain and flush with water. Refer to the Storage and Disposal directions for proper disposal of rinse water.

### INSECT CONTROL

Apply when insects or their damage appear. To maintain control repeat at 7 to 14 day intervals or as necessary unless a shorter interval is specified below. Where a dosage range is indicated, use lower rate on young plants and early instars and higher rate on mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

SEVIN® brand 85 Sprayable Carbaryl Insecticide does not control spider mites. If spider mites are a problem, use a registered miticide.

Regional differences have been noted in the susceptibility of certain strains of fall armyworm to SEVIN® brand 85 Sprayable Carbaryl Insecticide. If local experience indicates inadequate control, use an alternative pesticide.

**FORAGE AND FIELD CROP INSECT CONTROL**

Recommended dosages refer to kilograms of SEVIN® brand 85 Sprayable Carbaryl Insecticide per hectare. Use sufficient spray volume to insure thorough coverage. This will usually vary from 50 to 400 liters per hectare depending on equipment, degree of insect infestation, and stage of crop growth. Keep spray mixtures well agitated. Apply when insects or their damage appear and repeat 7 to 14 days later if necessary. See specific directions below for grasshopper control.

**ALFALFA, CLOVERS, COWPEAS, PEANUTS AND SOYBEANS**

Use 0.7 to 1.4 kg for blister beetles and Mexican bean beetles.

Use 1.4 kg for alfalfa caterpillar, bean leaf beetle, cucumber beetles, green cloverworm, Japanese beetle, leafhoppers, three cornered alfalfa hopper, thrips, and velvetbean caterpillar.

Use 1.4 to 2.0 kg for armyworms, corn earworms, stink bugs and webworms.

Some leaf injury may occur if applications are made when tender foliage is wet.

Do not apply to alfalfa and cowpeas within 3 days of harvest.

**COTTON INSECT CONTROL**

Recommended dosage refer to kilograms of SEVIN® brand 85 Sprayable Carbaryl Insecticide per hectare. Use at least 28 liters of total mixture per hectare and increase to higher volumes on larger plants.

Use 0.7 to 1.4 kg for early season thrips, flea beetles, cotton fleahopper, striped blister beetles and cotton leafworms.

Use 1.4 to 2.6 kg depending on the size of the cotton and insect population level for mid- and late-season boll weevil, bollworm, fall armyworm, cotton leafperforator, leafrollers, leafhoppers, tarnished plant bugs and light to moderate infestation of lygus bugs. Applications for boll weevil should be made every five to seven days as long as control is necessary.

Use 2.0 to 3.3 kg for pink bollworm on a five to seven day schedule depending on the size of the cotton and degree of infestation.

Use 2.7 kg for stink bugs and salt marsh caterpillars.

Use 0.7 to 2.0 kg for grasshoppers. The higher dosage should be used when grasshoppers are mature or material is applied on partly defoliated plants.

Aphid populations will be suppressed by repeated applications of this insecticide.

May be applied after bolls open. Do not apply within 7 days of harvest.

**RICE, FORAGE GRASSES AND PASTURE**

Use 1.4 to 2.0 kg for armyworms, stink bugs and thrips. For thrips control in grasses grown for seed, high spray pressure may help penetration into boot.

Do not apply within 14 days of harvest of rice. No time limitation on forage grasses and pasture.

**CAUTION:** May kill shrimp and crabs. Do not use in areas where these are important resources. Do not use on rice fields in which crayfish and/or catfish farming is included in the cultural practice.

**SORGHUMS (INCLUDING MILO AND GRAIN SORGHUM)**

Use 1.4 to 2.6 kg for armyworms, corn earworm, stink bugs and webworms. Use 2.0 kg for sorghum midge. For optimum insect control of grain sorghum, direct spray into the forming heads. Treatment for sorghum midge control should be made 3 to 4 days after heads have emerged from boot.

Do not apply within 21 days of harvest of grain.

No time limitation on sorghums used for forage.

**SUGAR BEETS**

Use 1.4 to 2.6 kg for armyworms, leafhoppers and webworms.

Do not apply within 14 days of harvest.

**GRASSHOPPERS**

Apply 0.7 to 2.0 kg as often as necessary to control grasshoppers on the above crops. A 0.7 to 1.4 kg rate is suggested for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditchbanks and borders. A 1.4 to 2.0 kg dosage should be used when grasshoppers are mature or material is applied to crops requiring greater coverage.

**VEGETABLE INSECT CONTROL**

Suggested dosages refer to kilograms of this product per hectare. Where a dosage range is indicated, use lower rate on young plants; higher rate on mature plants. Use sufficient volume to obtain full coverage. Keep spray mixtures well agitated. Apply when insects or their damage appear. Repeat at 7 to 10 day intervals or as necessary unless a shorter interval is specified below.

**BEANS (GREEN BEANS, LIMA BEANS, SNAP BEANS, COWPEAS, AND BLACK-EYED PEAS)**

Use 0.7 kg for Mexican bean beetle; 1.4 kg for bean leaf beetle, cucumber beetles, flea beetles, Japanese beetle, leafhoppers, velvetbean caterpillar, and western bean cutworm.

Use 1.4 to 2.6 kg for armyworms, cutworms, corn earworm, lima bean pod borer, lygus bugs, stink bugs and tarnished plant bugs.

Do not apply to cowpeas within 3 days of harvest.

**CORN**

8 of 11

Use 1.4 to 2.6 kg for corn earworm, corn rootworm adults, European corn borer, fall armyworm, flea beetles, Japanese beetles, leafhoppers and sap beetles. For larvae in whorl (budworm damage) and foliage feeders, apply to entire plant. Repeat as necessary. For insects attacking silks and ears, apply at 2 to 3 day intervals starting when first silks appear and continuing until silks begin to dry. Three or more applications may be required depending on severity of infestation. Timing and good coverage are absolutely essential for effective control.

Application of this product to the tassel region of corn during the pollen shed period will seriously reduce bee populations.

**CUCUMBER, MELONS, PUMPKIN, AND SQUASH**

Use 0.7 to 1.4 kg for pickleworm and melonworm; 1.4 kg for cucumber beetles, flea beetles, leafhoppers and squash bugs. Avoid excessive applications. Some leaf injury may occur if treatments are made when tender foliage is wet or in the presence of prolonged high humidity.

**POTATO, TOMATO, EGGPLANT AND PEPPER**

Use 0.7 to 1.6 kg for Colorado potato beetle, flea beetles and leafhoppers. Use 1.4 to 2.6 kg for European corn borer, fall armyworm, lace bugs, tomato fruitworm, tomato hornworm, tarnished plant bugs and stink bugs. Use 2.6 kg for cutworm control on potato, tomato and eggplant.

**OKRA**

Use 1.4 to 2.6 kg for corn earworm and stink bugs. Repeat at 5 to 7 day intervals or as necessary.

**CABBAGE, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER AND KOHLRABI**

Use 0.7 to 1.4 kg for flea beetles and harlequin bug.

Use 1.4 to 2.6 kg for armyworms, cabbage caterpillars, and corn earworms. Where cabbage looper is the principal problem, use an alternative pesticide that is specifically recommended. For control of small cabbage loopers in home gardens (or in commercial plantings after edible portions begin to form) use SEVIN® brand 85 Sprayable Carbaryl Insecticide in a 5 to 7 day schedule.

Where cabbage looper is the principal problem, use an alternative pesticide that is specifically recommended. For control of small cabbage loopers in home gardens (or in commercial plantings after edible portions begin to form) use 1.4 to 2.6 kg in a 5 to 7 day schedule.

Do not apply within 3 days of harvest of these crops.

**LETTUCE AND CARROTS**

Use 0.7 to 1.4 kg for flea beetles, harlequin bug and leafhoppers. To control six-spotted leafhopper (aster yellows vector) apply 1.4 to 2.0 kg in a 5 to 7 day schedule.

Use 1.4 to 2.6 kg for armyworms, cabbage caterpillars, corn earworm, spittlebugs, tarnished plant bugs and stink bugs. For optimum control of corn earworm after lettuce heads begin to form apply 2.6 kg in a 5 to 7 day schedule.

Do not apply within 3 days of harvest of head lettuce. Do not apply within 14 days of harvest of leaf lettuce. No time limitation on carrots.

**TOBACCO INSECT CONTROL**

**IN PLANT BEDS:** For tobacco flea beetle, use 300 grams per 100 liters and apply 27 liters per 100 square meters.

For green June beetle grubs, use 75 grams per 100 liters of water. Sprinkle as a drench at 225 to 450 liters per 100 square meters.

**IN FIELDS:** For budworms, flea beetles, Japanese beetles, June beetles and hornworms, use 1.4 to 2.6 kg in at least 90 liters of water per hectare. Full coverage of plants is essential. Begin treatments when worms are small. Avoid excessive application.

Treated fields may be entered immediately after foliage has dried. If late applications are necessary, allow three days before priming or cutting.

**CITRUS INSECT CONTROL**

Recommended dosage refer to grams of SEVIN® brand 85 Sprayable Carbaryl Insecticide per 100 liters dilute spray. Keep spray mixtures well agitated. Apply only in full cover sprays. Do not apply less than 93 liters of spray mixture per mature tree.

**GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, CITRUS CITRON, KUMQUATS, AND HYBRIDS OF THESE:**

Use 150 grams for California orange dog, citrus cutworm, fruittree leafroller, orange tortrix and western tussock moth.

Use 105 to 150 grams for black scale, brown soft scale, California red scale, citricola scale and yellow scale. Apply lower dosage early in the season or against light infestation and the higher dosage late in the season or against heavy infestation and situations involving infested fruit. May be used with petroleum oil as used in common practice on citrus.

Do not apply within 5 days of harvest of these crops.

**TREE FRUIT INSECT CONTROL**

Recommended dosages refer to grams of SEVIN® brand 85 Sprayable Carbaryl Insecticide per 100 liters of dilute spray. Keep spray mixture well agitated. Apply for full coverage in normal spray schedules at petal fall and every 10 to 14 days thereafter.

Application of this product within 30 days after full bloom may also provide fruit thinning: to avoid this, delay use until at least 30 days after bloom. May cause foliar injury if used before second cover on York and McIntosh apples. Foliar injury may also result if used in combination with summer oils.

**APPLES AND PEARS**

Use 150 grams for apple maggot, apple mealybug, apple rust mite, apple sucker, bagworm, California pear slug, codling moth, eastern tent caterpillar, European apple sawfly, eye-spotted budmoth, fruittree leafroller, green apple aphid, green fruitworm, Japanese beetle, lygus bugs, orange tortrix, pear leaf blister mite, pear psylla, pear rust mite, periodical cicada, plum curculio, redbanded leafroller, rosy



apple aphid, tarnished plant bug, tentiform leafminers, white apple leafhopper, woolly apple aphid, Forbes scale, Lecanium scales, oystershell scale and San Jose scale.

For optimum scale control, apply when crawlers are present. To control rosy apple aphid, apply before leaves are curled. Apply at 10 day intervals for apple maggot control. For psylla control, apply when eggs hatch or when young nymphs are present. When heavy aphid infestations are present, repeated applications may be necessary for optimum control.

Do not apply within 1 day of harvest of apples and pears.

**PEACHES, APRICOTS AND NECTARINES**

Use 150 grams for codling moth, cucumber beetles, European earwig, Japanese beetle, Pandemis moth, June beetles, lesser peachtree borer, orange tortrix, oriental fruit moth, peach twig borer, periodical cicada, plum curculio, fruittree leafroller, redbanded leafroller, *Platynis flavendana*, tarnished plant bug, tussock moth, lecanium scales, San Jose scale and olive scale. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and trunk thoroughly at weekly intervals during moth flight.

Do not apply within 1 day of harvest of peaches. Do not apply within 3 days of harvest of apricots and nectarines.

**PLUMS, PRUNES, AND CHERRIES**

Use 150 grams for black cherry aphid, mealy plum aphid, cherry fruit fly, cherry fruitworm, eye-spotted bud moth, fruittree leafroller, redbanded leafroller, Japanese beetle, lesser peachtree borer, peach twig borer, plum curculio, prune leafhopper, brown soft scale, Forbes scale, lecanium scales, oystershell scale, and San Jose scale. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and trunk thoroughly.

Use 105 grams for eastern tent caterpillar, codling moth, orange tortrix, and tussock moth.

Do not apply within 1 day of harvest of these crops.

**CITRUS INSECT CONTROL**

Recommended dosage refer to grams of SEVIN® brand 85 Sprayable Carbaryl Insecticide per 100 liters dilute spray. Keep spray mixtures well agitated. Apply only in full cover sprays. Do not apply less than 93 liters of spray mixture per mature tree.

**GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, CITRUS CITRON, KUMQUATS, AND HYBRIDS OF THESE:**

Use 150 grams for California orange dog, citrus cutworm, fruittree leafroller, orange tortrix and western tussock moth.

Use 105 to 150 grams for black scale, brown soft scale, California red scale, citricola scale and yellow scale. Apply lower dosage early in the season or against light infestation and the higher dosage late in the season or against heavy infestation and situations involving infested fruit. May be used with petroleum oil as used in common practice on citrus.

Do not apply within 5 days of harvest of these crops.

**TREE NUT INSECT CONTROL**

Recommended dosages refer to grams of SEVIN® brand 85 Sprayable Carbaryl Insecticide per 100 liters of dilute spray. Keep spray mixture well agitated. Apply for full coverage in normal spray schedule.

**ALMOND**

Use 150 grams for peach twig borer, San Jose scale and fruittree leafroller. Apply in "popcorn" or petal fall stages and again when the May brood of the peach twig borer begins to hatch or thereafter as needed.

**FILBERT**

Use 150 grams for filbert aphid, filbert leafroller and filbert moth. A dilute spray of 3740 liters per hectare is suggested. Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.

**WALNUT**

Use 75 grams for codling moth, frosted scale, European fruit lecanium scale, calico scale, fi bertworm and fruittree leafroller. Spray 9000 liters per hectare for complete coverage. In concentrate sprays use 750 grams in at least 1870 liters per hectare. For codling moth, apply first spray when average cross sectional diameters of developing nuts reaches 1 to 2 centimeters. Repeat during middle or late June as needed. Use 300 grams for European earwig. Spray tree trunks to point of run-off.

**SMALL FRUIT INSECT CONTROL**

Recommended dosages refer to kilograms of this product per hectare. Use sufficient spray volume to obtain full coverage. Keep spray mixture well agitated. Apply when insect or their damage appear. Repeat at 7 to 10 day intervals or as necessary.

**GRAPES**

Use 1.4 to 2.6 kg for European fruit lecanium, grape leafroller, grape leafhopper and grape leaf skeletonizer. Apply just before first brood leafroller larvae emerge from rolls and as needed for leafhoppers. Use 2.6 kg for grape berry moth, Japanese beetle, June beetles, and redbanded leafroller. A dilute spray of 1870 liters per hectare is suggested.

**STRAWBERRIES**

Use 1.4 to 2.6 kg for meadow spittlebug, strawberry leafroller and strawberry weevil. A dilute spray of 935 to 1870 liters per hectare is suggested.

Do not apply within 1 day of harvest.

**BLUEBERRIES**

Use 2.0 to 2.6 kg for blueberry maggot, cherry and cranberry fruitworms, European fruit lecanium and Japanese beetle. Apply 3 weeks before harvest and repeat 10 days later or as necessary. A dilute spray of 1170 to 1400 liters per hectare is suggested.

**CRANBERRIES**

Use 2.0 to 4.0 kg for cutworms, fireworms, fruitworms, Japanese beetle, and leafhoppers. Apply in late bloom and as needed at 7 to 10 day intervals. A dilute spray of 2800 liters per hectare is suggested.

Do not apply within 1 day of harvest.

**CAUTION:** May kill shrimp or crabs. Do not use in areas where these are important resources.

**ORNAMENTAL INSECT CONTROL**

SEVIN® brand 85 Sprayable Carbaryl Insecticide at recommended concentrations can be safely used on a wide range of ornamental plants, flowers, shrubs, and shade trees including rose, carnation, gladiolus, zinnia, chrysanthemum, lilac, arbovitae, juniper, hydrangea, azaleas, elm, maple, oak, dogwood, birch, and pines. Do not use on Boston Ivy as injury will result.

Use 150 grams per 100 liters of water when insects or their damage appear. Repeat weekly or as needed. Do not use on Boston Ivy as injury will result.

- |                 |                       |
|-----------------|-----------------------|
| Blister beetle  | Leafhopper            |
| Boxelder bug    | Leafroller            |
| Fea beetle      | Mealybug              |
| Japanese beetle | Plant bug             |
| June beetle     | Psyllidrose           |
| Lace bug        | Aphidthrips (exposed) |

Use on shrubs, trees and woody plant (rose, lilac, arborvitae, juniper, hydrangea, azalea, elm, maple, oak, dogwood, birch, pine etc.) for control of:

- |                   |                    |
|-------------------|--------------------|
| Apple aphid       | Mealy bug          |
| Bagworm           | Mimosa webworm     |
| Birch leafminer   | Oak leafminer      |
| Boxelder bug      | Orange tortrix     |
| Boxwood leafminer | Periodical cicada  |
| Elm leaf aphid    | Puss caterpillar   |
| Elm leaf beetle   | Rose aphid         |
| Gypsy moth        | Roseslug           |
| Japanese beetle   | Scale insects      |
| June beetle       | Tent caterpillar   |
| Lace bug          | Thrips (exposed)   |
| Leafhopper        | Willow leaf beetle |
| Leafroller        |                    |

**LAWN INSECT CONTROL**

Use 150 grams in 200 liters of water for each 50 square meters of established lawn area for the control of:

- |               |              |
|---------------|--------------|
| Ants          | (Lawn moths  |
| Chinch bug    | Leafhopper   |
| Cutworms      | Millipedes   |
| Earwigs       | Mosquitoes   |
| Fall armyworm | Sod webworms |
| Fleas         |              |

Use garden hose sprayers or pressure type equipment and apply full water volume to insure good penetration of turf. For best results, mow lawn and apply immediately after rain or watering. Repeat 2 to 3 weeks later if necessary.

**POULTRY INSECT CONTROL  
CHICKENS, PARTRIDGES, PHEASANTS AND PIGEONS  
DIRECT MIST SPRAY ON BIRDS:**

Control northern fowl mite, chicken mite, lice and fleas by:

(1) Misting with electric fog machine by mixing 45 gram per liter of spray and applying 6 liters per 1000 hens in cages, on litter, or on slatted floor. Repeat in 4 weeks if necessary.

or

(2) Spraying with knapsack or cylinder type compressed air sprayer by mixing 55 grams per 10 liters of spray and applying 4 liters per 100 hens in cages, on litter, or on slatted floor. Repeat in 4 weeks if necessary.

**IN OR AROUND POULTRY HOUSES:**

Use 600 grams per 100 liters of water for chicken mite, fleas, and bedbugs.

Use 2200 grams per 100 liters of water for fowl tick.

Spray 4 to 8 liters per 100 square meters of wall, bedding, litter or roost surfaces. Force spray into cracks and crevices. Repeat as needed. Ventilate while spraying. Do not use on poultry or game birds. Do not treat nest litter. Avoid direct contamination of eggs.

Do not apply to poultry and game birds or their premises within 7 days of slaughter.

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

Rhone-Poulenc Ag Company  
P. O. Box 12014, 2 T. W. Alexander Drive  
Research Triangle Park, NC 27709

SEVIN® is the registered trademark of RHONE-POULENC.  
SEVIN® brand 85 Sprayable (PENDING) Submitted 7/22/93.