

PM 19 264 -316

file 10/23



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. 264-316
SEVIN BRAND 80 S 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 Canola Ink on paper that
contains at least 50% recycled fiber

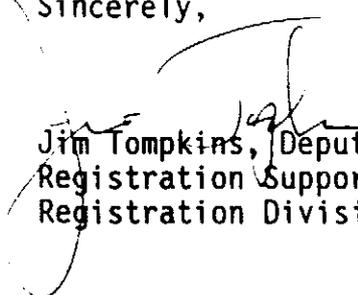
Submit the final printed labeling via the U.S. Postal Service to:

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. 264-316
SEVIN BRAND 80 S CARBARYL INSECTICIDE

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

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

4813

SEVIN[®] brand 80S Carbaryl Insecticide

FOR AGRICULTURAL OR COMMERCIAL USE ONLY
NOT FOR RESIDENTIAL USE

ACTIVE INGREDIENT: Carbaryl (1-naphthyl N-methylcarbamate)80% by wt.
INERT INGREDIENTS:20% by wt.

E.P.A. Reg. No. 264-316

E.P.A. Est. No.

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 MEDICAL And TRANSPORTATION Emergencies 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.

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.

GENERAL

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.**

ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE.

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 over atropinization. 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 Rhône-Poulenc Ag Company.

Consultation on therapy can be obtained at all hours by calling Rhône-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.

ACCEPTED
with COMMENTS
In EPA Letter Dated

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

264-316

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

This product is extremely toxic to aquatic and estuarine invertebrates. 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 apply when weather conditions favor drift from area treated. 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 or residues 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 Rhône-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 80S 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 80S Carbaryl Insecticide is a dry powder for dispersion in water and application as an insecticidal spray in hydraulic sprayers, mist blowers, low gallonage ground equipment and aircraft. READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL AND STATE REGULATIONS.

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 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 or 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 and soybeans.

SPRAY PREPARATION

TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR OR RECIRCULATE ALL SEVIN® BRAND 80S 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 80S 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 MIXTURES FOR PROLONGED PERIODS.

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COMPATIBILITY

SEVIN® brand 80S Carbaryl Insecticide has been used without plant injury with most common insecticides, miticides, fungicides, nutrients, adjuvants and petroleum oil as used on citrus. If compatibility of SEVIN® brand 80S Carbaryl Insecticide with another product and the resulting crop response is unknown, it 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® 80S CARBARYL INSECTICIDE TO AT LEAST 1/2 THE DESIRED AMOUNT OF WATER, MIX THOROUGHLY, AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE, AND THEN THE REMAINING VOLUME OF WATER. 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 80S 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 80S Carbaryl Insecticide. If your experience indicates inadequate control, use an alternative pesticide.

GRASSHOPPERS

CROP	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage, Field and Vegetable Crops	2/3 to 1 7/8 Unless Noted Otherwise	See specific Forage, Field or Vegetable Crop	Use the lower rate for nymphs on small plants or sparse vegetation. Use the higher rate for adults or applications to dense vegetation.

FORAGE, FIELD AND VEGETABLE CROPS

Use at least 1 gallon of finished spray per acre for aerial application and at least 3 gallons of finished spray per acre for concentrate ground application.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Alfalfa Clovers	Blister beetles Mexican bean beetle	2/3 to 1 1/4	7 (Alfalfa)	Observe plant response precautions.	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1 1/4	0 (Clovers)	On dense growth use 25 to 40 gallons per acre with ground equipment to ensure adequate coverage.
	Armyworm Cloverhead weevil Corn earworm Cutworm Egyptian alfalfa weevil larvae Essex skipper	European alfalfa beetle Fall armyworm Lygus bugs Webworms Yellowstriped armyworm	1 1/4 to 1 7/8		For alfalfa weevil larvae, if pre-treatment damage is extensive, cut alfalfa and treat the stubble. Apply only once per cutting.
	Alfalfa weevil larvae West of the Rocky Mountains	1/4 to 1 7/8			
	East of the Rocky Mountains	1 7/8			
	Asparagus beetle	1 1/4 to 2 1/2	1		
Asparagus	Apache cicada Asparagus beetle	2 1/2 to 5	Post harvest application only	Treat ferns or brush growth. Do not treat more than once every 3 days.	
Beans (including blackeyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Blister beetles Mexican bean beetle	2/3 to 1 1/4		Observe plant response precautions.	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Flea beetles Green cloverworm Japanese beetle Leafhoppers	Three cornered alfalfa hopper Thrips Velvetbean caterpillar Western bean cutworm	1 1/4	0 (except cowpeas) 3 (cowpeas)	
	Armyworm Corn earworm Cutworms European corn borer Fall armyworm	Stink bugs Tarnished plant bug Webworms	1 1/4 to 1 7/8		
	Cowpea curculio	2 1/2			
	Corn earworm Limabean pod borer	Lygus bugs Stink bugs	2 1/2		California Only
Cabbage Broccoli Brussels Sprouts Cauliflower Kohlrabi	Flea beetles	Harlequin bug	2/3 to 1 1/4	3	
	Armyworm Corn earworm	Fall armyworm Imported cabbageworm	1 1/4 to 2 1/2		

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CROP	INSECT		POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Chinese cabbage Collards Hanover salad Horseradish Kale Mustard greens Radishes Rutabagas Turnips	Flea beetles	Leafhoppers	2/3 to 1 1/4	3 (Horseradish, radishes, rutabagas and turnip roots) 14 (Chinese cabbage, collards, Hanover salad, kale, mustard greens, and turnip tops)	
	Harlequin bug		1 1/4 to 1 7/8		
Carrots Celery Parsnips Parsley	Aster leafhopper		1 1/4 to 1 7/8	0 (carrots) 3 (parsnips) 14 (celery & parsley)	DO NOT USE ON CELERY IN CALIFORNIA.
	Lygus bugs	Spittlebugs	1 1/4 to 1 7/8		
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bugs	1 1/4 to 2 1/2		
Corn (field, sweet, pop)	Armyworm Chinch bugs Corn earworm Corn rootworm adults European corn borer Fall armyworm Flea beetles	Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 1/4 to 2 1/2	0	OBSERVE BEE CAUTION 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 apply foliage feeders, as necessary. For chinch bugs use high gallonage ground application directed at the base of plants. Optimum timing and good coverage are essential for effective control. Treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness. Apply in a 12 inch band, using 1/4 pound (4 ounces) per 1000 linear feet of row, in at least 15 gallons of water per acre. For broadcast application use up to 8 pounds in at least 20 gallons (ground) or 5 gallons (air) of water per acre.
	Western bean cutworm		2 1/2		
	Cutworms		2 1/2 to 8		
Cotton	Cotton fleahopper Cotton leafworm Flea beetles	Striped blister beetle Thrips	2/3 to 1 1/4	7	Early season insect control. Treat on a 5 to 7 day schedule for as long as control is necessary. Mid and late season insect control. May be applied after bolls open. For light to moderate populations in Western irrigated cotton. Aphid populations will be suppressed by repeated applications of this insecticide.
	Boll weevil Bollworms Cotton leaf-perforator Fall armyworm Leafrollers	Leafhoppers Tarnished plant bug Yellowstriped armyworm (cotton cutworm)	1 1/4 to 2 1/2		
	Lygus bugs		1 1/4 to 2 1/2		
	Pink bollworm		1 7/8 to 3		
	Stink bugs Saltmarsh caterpillar		2 1/2		

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cucumber	Pickleworm Melonworm	2/3 to 1 1/4	0	Observe plant response precautions. Avoid excessive applications.
Melons	Cucumber beetles Leafhoppers	1 1/4		
Pumpkins	Flea beetles Squash bugs			
Squash				
Dandelion	Flea beetles Leafhoppers	2/3 to 1 1/4	3 (head lettuce & salsify roots) 14 (dandelion, endive (escarole), leaf lettuce & salsify tops)	Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.
Endive (Escarole)	Harlequin bug			
Lettuce				
Salsify	Aster leafhopper Spittlebugs	1 1/4 to 1 7/8		
	Lygus bugs			
	Armyworm Imported cabbage worm	1 1/4 to 2 1/2		
	Com earworm Stink bugs			
	Fall armyworm Tarnished plant bug			
Pasture	Armyworm Range caterpillars	1 1/4 to 1 7/8	0 (aerial application) 14 (ground application)	To control thrips in grasses grown for seed, use high spray pressure to improve penetration into boot. Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Do not allow foraging or cut for hay within 14 days of last application by ground. Aerially treated pastures may be grazed or cut for hay on day of treatment. Carefully mark swaths to avoid over application.
	Black grass bug Chinch bugs			
	Essex skipper Striped grass looper			
	Fall armyworm Thrips			
	Grasshoppers	2/3 to 1 7/8		Refer to general GRASSHOPPER heading.
Rangeland	Black grass bug Mormon cricket	2/3 to 1 1/4	0	FOR AERIAL APPLICATION ONLY. Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Carefully mark swaths to avoid over application.
	Range caterpillars Range crane fly			
	Grasshoppers	2/3 to 1 7/8		Refer to general GRASSHOPPER heading.
Wasteland	Black grass bug Mormon cricket	2/3 to 1 1/4	0 (aerial application) 14 (ground application)	Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Do not allow foraging or cut for hay within 14 days of last application by ground. Aerially treated areas may be grazed or cut for hay on day of treatment. Carefully mark swaths to avoid over-applications.
Rights-of-Way	Range caterpillar Range crane fly			
Hedgerows				
Ditchbanks				
Roadsides				
	Grasshoppers	2/3 to 1 7/8		Refer to general GRASSHOPPER heading.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Garden beet Spinach Swiss chard	Flea beetles Harlequin bug Leathoppers	2/3 to 1 1/4	3 (garden beet roots)		
	Aster leafhopper	1 1/4 to 1 7/8			
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 1/4 to 2 1/2		14 (garden beet tops, spinach, Swiss chard)
Okra	Corn earworm Stink bugs	1 1/4 to 2 1/2	0	Treat on a 5 to 7 day schedule.	
Peanuts	Blister beetles Mexican bean	2/3 to 1 1/4	0	Observe plant response precautions.	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leathoppers	Red-necked peanut worm Three cornered alfalfa hopper Thrips Velvetbean caterpillar			1 1/4
	Armyworm Corn earworm Fall armyworm	Stinkbugs Webworms			1 1/4 to 1 7/8
	Whitefringed beetle (adults) Cutworms				2 1/2
Peas	Colorado potato beetle Leathoppers	1 1/4	3		
	Armyworm	1 1/4 to 1 7/8			
	Alfalfa caterpillar Cutworms Pea leaf weevil	Pea weevil Yellowstriped armyworm			1 7/8
Potato Tomato Eggplant Peppers	Colorado potato beetle Flea beetles Leathoppers	2/3 to 1 1/4	0		
	European corn borer Fall armyworm Lace bugs Stink bugs	Tarnished plant bug Tomato fruit worm Tomato hornworm Tomato pinworm			1 1/2 to 2 1/2
	Cutworms				2 1/2
Rice	Armyworms Chinch bug	Fall armyworm Stink bugs	1 1/4 to 1 7/8	14	<p>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 are included in the cultural practice.</p> <p>DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT.</p> <p>MISSISSIPPI DELTA & TEXAS</p>
	Armyworm Leathoppers	Tadpole shrimp	2 1/2		

CROP	INSECT		POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sorghums (milo, grain sorghum, sweet sorghum and hybrid)	Armyworm Chinch bugs Corn earworm	Fall armyworm Stink bugs Webworms	1 1/4 to 2 1/2	21 (grain)	Direct spray into forming heads for optimum insect control. Treat for sorghum midge when 25 to 30 percent of heads have emerged from boot and are in bloom. Repeat application 3 to 5 days later if adults are still active. A third application may be necessary in late planted sorghum or if midge are abundant. For chinch bugs use high gallonage ground application directed at base of plants.
	Sorghum midge Southwestern corn borer		1 7/8	0 (forage)	
	Cutworms		2 1/2		
Soybeans	Bean leaf beetle Cucumber beetles Green cloverworm	Mexican bean beetle Velvetbean caterpillar	2/3	0	DO NOT APPLY A COMBINATION OF THIS PRODUCT AND 2,4-DB HERBICIDES TO SOYBEANS AS CROP INJURY MAY RESULT. Use lower rates for light to moderate populations and smaller instars. Use the higher rates for heavy populations and larger instars.
	Corn earworm		2/3 to 1 1/4 to 1 7/8		
	Blister beetles Grape colaspis Mexican bean beetle		2/3 to 1 1/4		
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1 1/4		
	Armyworm Cutworms	Fall armyworm Stink bugs Webworms	1 1/4 to 1 7/8		
	Painted lady Thistle caterpillar)	Saltmarsh caterpillar Yellowstriped armyworm	2 1/2 to 3		
Sugarbeets	Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 1/4 to 1 7/8	14	
	Cutworms		1 7/8		
Sunflower	Cutworms		1 7/8	60	Do Not Use In California. Do not allow animals to graze on treated crops.
	Armyworm Fall armyworm		1 7/8 to 2 1/2		
	Stem Weevil Sunflower beetle		1 1/4 to 2 1/2		

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sweet Potatoes	Sweet potato weevil	9 tablespoons/gallon	0	Preplant Dip: Just prior to planting, dip sweet potato cuttings in a suspension of this product (9 tablespoons/gallon of water).
		1 1/4 to 2 1/2		Foliar Application: Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
	Corn earworm Cucumber beetles Flea beetles	Sweet potato hornworm Tortoise beetles		1 1/4 to 2 1/2
Tobacco (In Plant Beds)	Tobacco flea beetle	2 1/2 Tbs/gal. or 1 1/4 lbs/ 50 gals and apply 6 gal/100 sq. yards	0	To prevent plant injury, avoid excessive applications.
	Green June beetle grubs	2/3 lb./200 gal.		Apply only to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per 100 square yards.
	(In Fields) Budworms Fall armyworms Flea beetles Hornworms	Japanese beetle June beetles Suckfly		1 1/4 to 2 1/2
Wheat	Cereal leaf beetle	1 1/4	0 (Forage) 21 (grain)	Do Not Use In California. Do not make more than two applications after grain heads emerge from boot.
	Armyworm Fall armyworm	1 1/4 to 1 7/8		Application is effective against eggs larvae and adults.

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TREE FRUIT AND NUT CROPS

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays increase the concentration of SEVIN® brand 80S Carbaryl Insecticide in the spray mixture to apply an amount per acre equivalent to that in a dilute spray. The optimum spray gallonage will depend on tree size, density and stage of growth. Typical spray gallonages per acre range from 200-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

APPLE THINNING

CROP	POUNDS OF SEVIN® BRAND 80S/100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apple Thinning Apples Only	1/3 to 2/3	1	<p>Apply 1 full coverage dilute spray between 10 and 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with this product, exercise caution to avoid possible yield reduction.</p> <p>Consult with your County Extension Service or other experts for advice on the proper use of this product.</p> <p>For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.</p>
	2/3 to 1 1/4		<p>For difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.</p>

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Almond	Peach twig borer San Jose scale Fruittree leafroller	1 1/4	28	OBSERVE BEE CAUTION. For peach twig borer, apply in "popcorn" or petal fall stages when the May brood begins to hatch or thereafter as needed. For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil label for additional use directions and restrictions.	
	Navel orangeworm			For Navel orangeworm, time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of hull split up to 10% hull split. Do not apply more than 6 1/4 pounds per acre.	
Apples Pears	Apple aphid Apple rust mite Apple sucker Bagworms California pearslug (pear sawfly) Codling moth Eyespotted bud moth Green fruitworm Lecanium scales Lesser appleworm	Lygus bugs Orange tortrix Oystershell scale Pear leaf blister mite Pear psylla Pear rust mite San Jose scale Tentiform leafminers Woolly apple aphid	1 to 1 1/4	1	West of the Rocky Mountains To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For psylla control, apply when eggs hatch or young nymphs are present.
	Apple mealybug Apple aphid Codling moth	White apple leafhopper	2/3		East of the Rocky Mountains
	Apple maggot Apple rust mite Bagworms Eastern tent caterpillar European apple sawfly Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Japanese beetle Lecanium scales Lesser appleworm Oystershell scale	Pear psylla Pear leaf blister mite Pear rust mite Periodical cicada Plum curculio Redbanded leafroller Rosy apple aphid San Jose scale Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowhead fireworm	1 1/4	1	To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control, apply when crawlers are present.
Chestnuts	Chestnut weevil	2 1/2 to 3 3/4	0	Do Not Use in California. Make 4 applications at weekly intervals beginning in late July for adult chestnut weevil control. Last application should be made prior to shuck split.	

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Citrus Fruits (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats and hybrids)	Avocado leafroller California orangedog Citrus cutworm Citrus root weevil Fruittree leafroller	Orange tortrix Western tussock moth West Indian sugarcane borer (adults)	1 1/4	Do not apply more than 25 pounds of this product per acre per application. May be mixed with petroleum oils commonly used on citrus.
	Black scale Brown soft scale California red scale	Citricola scale Citrus snow scale Yellow scale	1 to 1 1/4	
Filbert	Filbert aphid Filbert leafroller Filbertworm	1 1/4	0	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.
Olives	Olive scale	1 to 1 1/4	0	For optimum scale control, add 1 1/2 gallons of summer oil and apply mixture when crawlers are present. Do not exceed 2 applications per year. Do not apply more than 18 3/4 pounds of this product per acre per application.
Peaches Apricots Nectarines	Apple pandemis Codling moth moth Cucumber beetles European earwig Fruittree leafroller Japanese beetle June beetles Lecanium scales Lesser peachtree borer Olive scale	Orange tortrix Oriental fruit Peach twig borer Periodical cicada Plum curculio Redbanded leafroller San Jose scale Tarnished plant bug Tussock moths Variegated leafroller	1 1/4	1 (peaches) 3 (apricots & nectarines) Do not apply more than 7 1/2 pounds of this product per acre application to apricots. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and trunk thoroughly, weekly during moth flight.
Pecans	Black margined aphid Fall webworm Hickory shuckworm Lesser webworm Pecan leaf phylloxera	Pecan nut casebearer Pecan Spittlebug Pecan stem phylloxera Pecan weevil Twig girdler Walnut caterpillar	1 1/4 to 3	0 Do not apply more than 9 pounds of this product per acre per application.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS																								
Pistachios	Navel orangeworm	2/3 to 2 1/2	14	Apply dilute volumes of 150 to 300 gallons of mixed spray per acre for full coverage.																								
Plums Prunes Cherries	<table border="0"> <tr> <td>Black cherry aphid</td> <td>Mealy plum aphid</td> </tr> <tr> <td>Brown soft scale</td> <td>Oystershell scale</td> </tr> <tr> <td>Cherry fruitworm</td> <td>Peach twig borer</td> </tr> <tr> <td>Cherry maggot</td> <td>Plum curculio</td> </tr> <tr> <td>European earwig</td> <td>Prune leafhopper</td> </tr> <tr> <td>Eyespotted bud moth</td> <td>Redbanded leafroller</td> </tr> <tr> <td>Forbes scale</td> <td>Rose chafer</td> </tr> <tr> <td>Fruittree leafroller</td> <td>San Jose scale</td> </tr> <tr> <td>Green fruitworm</td> <td>Variegated leafroller</td> </tr> <tr> <td>Japanese beetle</td> <td></td> </tr> <tr> <td>Lecanium scales</td> <td></td> </tr> <tr> <td>Lesser peach tree borer</td> <td></td> </tr> </table>	Black cherry aphid	Mealy plum aphid	Brown soft scale	Oystershell scale	Cherry fruitworm	Peach twig borer	Cherry maggot	Plum curculio	European earwig	Prune leafhopper	Eyespotted bud moth	Redbanded leafroller	Forbes scale	Rose chafer	Fruittree leafroller	San Jose scale	Green fruitworm	Variegated leafroller	Japanese beetle		Lecanium scales		Lesser peach tree borer		1 1/4	1	<p>Do not apply more than 7 1/2 pounds of this product per acre per application.</p> <p>For optimum scale control, apply when crawlers are present.</p> <p>For lesser peachtree borer control, spray limbs and tree trunks thoroughly, weekly during moth flight.</p>
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Walnut	<table border="0"> <tr> <td>Calico scale</td> <td>Filbertworm</td> </tr> <tr> <td>European fruit lecanium</td> <td>Fruittree leafroller</td> </tr> <tr> <td>Codling moth</td> <td>Frosted scale</td> </tr> </table>	Calico scale	Filbertworm	European fruit lecanium	Fruittree leafroller	Codling moth	Frosted scale	2/3	0	<p>Apply 1000 gallons of dilute spray per acre for mature trees.</p> <p>For codling moth apply first spray when average cross sectional diameters of developing nuts are 1/2 to 3/4 inch. Repeat during middle or late June as needed.</p>																		
Calico scale	Filbertworm																											
European fruit lecanium	Fruittree leafroller																											
Codling moth	Frosted scale																											
	European earwig	2 1/2		Spray tree trunks to point of run-off.																								

SMALL FRUIT CROPS

Recommended dosages refer to pounds of SEVIN® Brand 80S Carbaryl Insecticide per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonages per acre range from 100-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (including boysenberries and loganberries)	European raspberry aphid Japanese beetle Leafhoppers Leafrollers Rose chafer Snowy tree cricket	1 1/4 to 2 1/2	7	
	Omnivorous leafroller Raspberry sawfly	2 1/2		CALIFORNIA ONLY
Blueberries	Blueberry maggot Cherry fruitworm Cranberry fruitworm European Fruit lecanium Japanese beetle	1 7/8	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworms Japanese beetle Leafhoppers Rose chafer	1 7/8 to 3 3/5	1	CAUTION! May kill shrimp and crabs. Do not use in areas where these are important resources. Apply in late bloom and as needed as 7 to 10 day intervals.
Grapes	European fruit lecanium Grape leafroller Grape leafhopper Western grapeleaf skeletonizer Western yellow-striped armyworm	1 1/4 to 2 1/2	7	Apply before first brood leafroller larvae emerge from rolls.
	Cutworms Eight-spotted forester Grapeberry moth Japanese beetle June beetles Orange tortrix Omnivorous leafroller Redbanded leafroller Saltmarsh caterpillar	2 1/2		
Strawberries	Flea beetles Meadow spittlebug Omnivorous leaftier (strawberry fruitworm) Strawberry leafroller Strawberry weevil	1 1/2 to 2 1/2	1	Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.

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NON-RESIDENTIAL TREES AND ORNAMENTALS

For dilute-spray ground applications to non-residential trees (including shade trees, shelter belts, forests, plantations, parks, and recreational areas), non-residential ornamentals, woody plants and shrubs, apply the specified dosage per 100 gallons of water. For concentrate-spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage.

For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks, and recreational areas) and commercially grown ornamentals, woody plants and shrubs, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds.

CROP	INSECTS	POUNDS OF SEVIN® BRAND 80S/100 GALLONS	SPECIFIC DIRECTIONS		
GROUND APPLICATION: Trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas). Ornamentals (including roses, flowers and other herbaceous plants). Woody Plants and Shrubs AERIAL APPLICATION: Forest Trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas) Commercially Grown Ornamentals (including roses, flowers and other herbaceous plants). Woody Plants and Shrubs	Ants Apple aphid Armyworm Azalea leafminer Bagworms, Birch leafminer Blister beetle Boxelder bug Boxwood leafminer Brown tail moth Cankerworms Catalpa sphinx Chiggers Cooley spruce gall aphid Cutworms Cypress tip moth Douglas-fir tussock moth Eastern spruce gall aphid Elm leaf aphid Elm leaf beetle Elm spanworm Eriophyid mites European pine shoot moth Fall armyworm Flea beetles Fuller rose beetle Gall midges Gall wasps Green striped mapleworm Grasshoppers Gypsy moth Hackberry nippegall maker	Holly bud moth Holly leafminer Jackpine budworm Japanese beetle Jeffrey pine needleminer June beetles Lace bugs Leafhoppers Leafrollers Locust borer Maple leafcutter Mealy bugs Mimosa webworm Nantucket pine tip moth Oak leafminers Oak leaf skeletonizer Oakworm complex Oleander caterpillar Olive ash borer Orange-striped oakworm Orange tortrix Periodical cicada Pine sawfly Pine spittlebug Pitch pine tip moth Plant bugs Poinsettia hornworm Psyllids Puss caterpillar Redhumped oakworm	Rose aphid Rose chager Rosesiug Saddled prominent Sawflies (exposed) Scale insects Sowbugs Spiny elm caterpillar Springtails Spruce budworm Spruce needleminer Subtropical tip moth Tent caterpillars Thorn bug Thrips (exposed) Ticks Walnut caterpillar Webworms Western hemlock looper Western spruce budworm Willow leaf beetles Yellow poplar weevil	1 1/4	Observe plant response precautions. Apply dilute sprays to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat trunks, stems and twigs in addition to plant foliage. For optimum worm control, treat when in early instars. Addition of a sticker may improve residual control. Applications for control of maple leaf-cutter on sugar maple should be made when larvae are in 2nd instar, after mining, and as cases are being formed.
	Ips engraver beetles Mountain pine beetle Roundheaded pine beetle Western pine beetle	25	Effective as a preventive treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gallon of spray per 50 square feet of bark in late May to early July, or prior to beetle attack. Treat tree trunks from ground level up, until trunk diameter is less than 5 inches.		
	Elm bark beetle		Apply approximately 20 to 30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunk, limbs and twigs.		

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NON-RESIDENTIAL TURF AND RECREATIONAL AREAS

CROP	INSECT	SPECIFIC DIRECTIONS
Turf grasses	Ants Armyworm Bluegrass billbug Centipedes Chiggers Chinch bugs Cutworms Earwigs Essex skipper European chafer Fall armyworm Fiery skipper Fleas Grasshoppers June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks White grubs Yellowstriped armyworm	<p>Use 4 ounces of SEVIN® brand 80S Carbaryl Insecticide per 1000 square feet (10 3/4 pounds per acre) of turf grass. Make applications in sufficient spray volume for thorough coverage and turf thatch penetration. Repeat treatment as necessary.</p> <p>For Armyworm, Cutworms: Fall Armyworm and Sod Webworm Control: Do not irrigate treated areas following insecticide application.</p> <p>For Chinch Bug Control: Treat entire turf grass area rather than just damaged areas. Irrigation of turf grass area before insecticide application will aid in penetration into turf grass.</p> <p>For White Grub Control: Applications should be made 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 agents. Water or irrigate turf grasses thoroughly soon after treatment.</p>

IMPORTED FIRE ANT CONTROL

SITE	POUNDS OF SEVIN® BRAND 80S/100 GALLONS OF WATER	SPECIFIC DIRECTIONS
Cemeteries, and non-residential Recreational Areas (including turf, golf courses, and parks) Pastures, Rangeland, Forested Lands, Wastelands	2	Apply a total of 2 gallons of the diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about three feet to give sufficient force to break mound apex and flow into ant tunnels. For best results, apply in cool weather 65-80° 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, reduction in product effectiveness.

**PEST CONTROL IN AND AROUND NON-RESIDENTIAL BUILDINGS
LIMITED TO PEST CONTROL OPERATORS ONLY**

INSECT	POUNDS OF SEVIN® BRAND 80S/100 GALLON.	SPECIFIC DIRECTIONS
Ants Cockroaches	25 (25 tablespoonfuls/gallons)	For use in and around non-residential buildings such as warehouses, barns and municipal and recreational areas.
Brown dog tick, Earwigs Fleas, Millipedes, Silverfish, Spiders	12 1/2 (12 1/2 tablespoonfuls/gallons)	Apply as a coarse wet spray or with a paint brush, and thoroughly treat cracks and crevices, baseboards, corners, walls, door sills, window frames, ant trails, and other areas where insects tend to congregate. Do not use as a space spray. Repeat when necessary but not more often than twice per week. Do not use this product in commercial food areas of food handling establishments, restaurants, or other places where food is prepared or processed. Do not use in serving areas while food is exposed. Avoid application to surfaces where visible spray residues are objectionable.

POULTRY INSECT CONTROL

POULTRY	INSECT	SPECIFIC DIRECTIONS
Chickens, Ducks, Geese, Game birds, Pigeons, and Turkeys	Chicken mites Fleas Lice Northern fowl mite	For use as a direct spray on birds by: 1. Misting with Electric Fog Machine: Mix 3/8 pounds (6 ounces) of this product in 1 gallon of spray. Use 1 1/2 gallons per 1000 hens in cages, on litter or on slatted floors. Repeat in 4 weeks if necessary. OR 2. Spraying with knapsack or cylinder type compressed air sprayers: Mix 1/4 pound (4 ounces) of this product in 5 gallons of spray. Use 1 gallon per 100 hens in cages, on litter or on slatted floors. Repeat in 4 weeks if necessary. Direct mist spraying for chicken mite and fleas in a supplement to spraying roosts and buildings for control of these pests. Do not apply to poultry and game birds within 7 days of slaughter.

	INSECT	SPECIFIC DIRECTIONS
<u>Poultry Quarters</u> Roosts and Buildings	Bedbugs Chicken mites Fleas Fowl tick Darkling Beetle (Lesser mealworms) Lice Northern fowl mite	Spray roosts and buildings with conventional power spray or knapsack equipment. For chicken mite, fleas and bedbugs, use 5 pounds of this product per 100 gallons of water. For fowl ticks, use 20 pounds of this product per 100 gallons of water. For lesser mealworms, use 62 1/2 pounds per 100 gallons. Spray 1 to 2 gallons per 1000 square feet of wall, bedding, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid spraying of nests, eggs and feeding and watering troughs. Ventilate while spraying. Do not treat premises within 7 days of slaughter.

DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system.

SPRAY PREPARATION: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: First prepare a suspension of SEVIN® brand 80S Carbaryl Insecticide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of SEVIN® brand 80S, and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of SEVIN® brand 80S per 1 to 4 gallons of water are recommended). Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of SEVIN® brand 80S into the irrigation water line so as to deliver the desired rate per acre. The suspension of SEVIN® brand 80S should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: When treatment with SEVIN® brand 80S has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

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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.

NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

Rhône-Poulenc Ag Company
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709

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SEVIN® brand 80S Carbaryl Insecticide (PENDING) Submitted 7/22/93.