

PM 12 264-335
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MAR 25 1988

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

Dear Ms. Huckaba:

Subject: Resubmission of Label Amendments - New Use
Sevin Brand SL Carbaryl Insecticide
EPA Registration No. 264-335
Your Applications Dated December 15, 19 7
and February 17, 1988

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on avocado is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

Program Coordination Staff
Registration Division (TS-767C)
Environmental Protection Agency
Washington, DC 20460

91846:I:Kumar:E-6:KENCO:3/15/88:4/21/88:Am:vo:ek:rw
R:91851:Kumar:E-6:KENCO:3/21/88:4/29/88:CB

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- 3. The additional brand name listed below is acceptable and our records have been adjusted to reflect the additional name. This acceptance is given with the understanding that the label for the additional brand name will be like the registered label in every respect except for product name and associated artwork; and you may delete, but not add sites and pests.

Additional Brand Name

CHIPCO SEVIN Brand SL Carbaryl Insecticide

- 4. The revised rates for pest control in and around buildings are higher than the rates that were approved for Sevin Brand XLR Carbaryl Insecticide (EPA Registration No. 264-333). Although these revised rates are within acceptable range, we would like to know your rationale for increasing these rates, especially rates for control of carpenter ants, cockroaches, and for perimeter treatment of buildings. In the future, dosage changes should be listed on the application and highlighted so as not to be overlooked inadvertently.
- 5. Submit five (5) copies of your 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 section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Dennis H. Edwards, Jr.
 Product Manager (12)
 Insecticide-Rodenticide Branch
 Registration Division (TS-767C)

Enclosure

SEVIN® brand SL
Carbaryl Insecticide

For Agricultural and Commercial Use Only

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate)41.2% by wt.

INERT INGREDIENTS58.8% by wt.

(Contains 4 Pounds Carbaryl Per Gallon)

E.P.A. Reg. No. 264-335

E.P.A. Est. No. 264-MO-02

KEEP OUT OF REACH OF CHILDREN

CAUTION CUIDADO

See inside booklet for additional PRECAUTIONARY STATEMENTS.

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

For PRODUCT USE Information Call 1-800-334-9745.

For EMERGENCY Information ONLY Call 24 Hours A Day 1-800-334-7577.

NET CONTENTS: _____

Made in U.S.A.

RHONE-POULENC AG COMPANY
P. O. Box 12014, T. W. Alexander Drive
Research Triangle Park, NC 27709

SEVIN is a registered trademark of Rhone-Poulenc Nederland B. V. for carbaryl insecticides.

ACCEPTED
with COMMENTS
in EPA Letter Dated

APC Form No. _____

MAR 25 1988

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

264-335

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PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

MAY BE HARMFUL IF SWALLOWED. OVEREXPOSURE MAY CAUSE: Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. IN SEVERE CASES CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

Avoid breathing spray mist. Do not take internally. Avoid contact with eyes, skin or clothing. Wear regular long-sleeved work clothing and head covering when making overhead applications. Change to clean clothing daily. Bathe and wash hair after each work day. Do not eat, drink or use tobacco while working with this product or spray solutions. Wash hands and face before eating, drinking or using tobacco. Keep out of reach of children and domestic animals.

ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. See NOTE TO PHYSICIAN below.

STATEMENT OF PRACTICAL TREATMENT

GENERAL

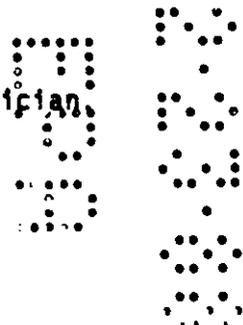
Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

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.



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NOTE TO PHYSICIAN

Carbaryl is a 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. Gastric lavage may be used if this product has been swallowed. Carbaryl poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

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 as needed 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.

Atropine is antidotal. 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.

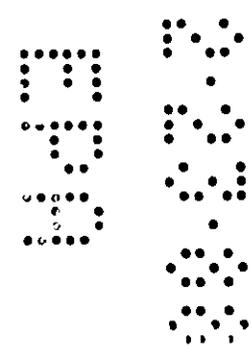
Consultation on diagnosis, therapy and analysis can be obtained at all hours by calling the Rhone-Poulenc emergency number 1-800-334-7577:

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water and wetlands. Do not apply when weather conditions favor drift from area treated. Do not contaminate water by cleaning equipment or disposal of wastes.

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 foraging in the treatment area. Contact your Cooperative Agricultural Extension Service or your local Rhone-Poulenc Ag Company representative for further information.



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DIRECTIONS FOR USE

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IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL AND STATE REGULATIONS. DO NOT USE ON ANY CROP NOT LISTED ON THIS LABEL OR SUPPLEMENTAL LABELING AS ANY RESIDUES REMAINING MAY BE ILLEGAL OR HARMFUL.

GENERAL INFORMATION

SEVIN® brand SL Carbaryl Insecticide is a suspension of microfine SEVIN® brand Carbaryl Insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied with hand or power-operated sprayers.

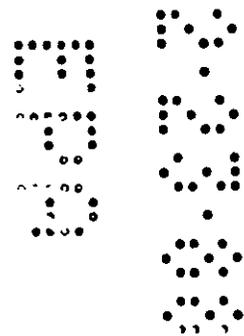
GENERAL WORKER PROTECTION STATEMENT

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.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Advise workers to stay out of treated areas until spray deposits have dried unless suitable clothing is worn. This includes regular long-sleeved (overhead applications) and long-legged work clothing. See PRECAUTIONARY STATEMENTS, STATEMENT OF PRACTICAL TREATMENT and NOTE TO PHYSICIAN for additional information. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: appropriate signal word (CAUTION), area treated with SEVIN® brand SL Carbaryl Insecticide, date of application, appropriate clothing, and reentry interval (i.e., until sprays have dried).



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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 or milk. This product may be applied up to and including the day of harvest or grazing of forage crops (except alfalfa). Application may be made without removing livestock from area being treated. Do not apply at greater rates or at more frequent intervals than are stated on the label. To do so may result in illegal residues in crops, meat, and milk. 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 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 during periods of high humidity.

Do not use on Boston ivy, Virginia creeper and maidenhair fern as injury may result. Carbaryl may also injure Virginia and sand pines.

Carefully observe label instructions for apple thinning to avoid excessive thinning. Combinations with certain herbicides on rice and soybeans may be phytotoxic. Refer to specific directions for appropriate crop.

SPRAY PREPARATION

TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR OR RECIRCULATE ALL CONTAINERS OF THIS PRODUCT PRIOR TO 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 SL Carbaryl Insecticide, and then add the remaining volume of water. Include rinse water from container. 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 OR DEGRADATION OF CARBARYL MAY OCCUR. Local water conditions may also accelerate the degradation of spray mixtures containing carbaryl. See COMPATIBILITY STATEMENT below.

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COMPATIBILITY

SEVIN® brand SL Carbaryl Insecticide, when diluted with at least an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil or aromatic solvents. If compatibility with another product and the resulting crop response is unknown, the mixture 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 application and handling 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 SL CARBARYL INSECTICIDE TO AT LEAST AN EQUAL VOLUME 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 OR PLANT INJURY.

Carbaryl is unstable under highly alkaline conditions and mixtures with strong bases, such as Bordeaux, lime-sulfur and casein-lime spreaders, will result in chemical degradation of the insecticide. Do not use this product in water with pH values above 8.0 unless a buffer is added. If necessary, water should be buffered to neutral (pH = 7.0) before adding this product to the spray tank. Overhead irrigation with alkaline or muddy water after application will also accelerate chemical degradation and may result in reduced insect control.

APPLICATION

For all applications use sufficient gallonage to obtain thorough and uniform coverage. Observe label instructions for specific directions regarding spray volume where they occur. Calibrate spray equipment to deliver the required volume. Use 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles.

To clean spray system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to the Storage and Disposal directions for disposal instructions.

INSECT CONTROL

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. 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 the lower rate on light to moderate infestations, young plants and early instars and the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

NOTE: All references to armyworm on the crops listed below refer to the species, *Pseudaletia unipuncta*, often called the "true armyworm". Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, Colorado potato beetle, spotted tentiform leafminer, and tobacco budworm (on cotton) to carbaryl. If local experience indicates inadequate control, use an alternative pesticide.

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FORAGE, FIELD AND VEGETABLE CRL

Apply in sufficient spray volume to obtain thorough coverage. To prepare small volumes of spray mixture use (fluid ounce) of SEVIN brand SL Carbaryl insecticide per gallon of water where rates of 1 quart per acre or more are indicated in the tables below.

GRASSHOPPERS

CROP	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage, Field and Vegetable Crops on this label	1/2 to 1 1/2 (unless noted otherwise)	See specific Forage, Field or Vegetable Crops	Use 1/2 to 3/4 quarts per acre on plants or sparse cover in rangeland, ditchbanks, etc. Apply to 1 1/2 quarts per acre for extended residual control. certain spray volume assure adequate coverage.

CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Alfalfa Clovers Birdsfoot trefoil	Blister beetles Mexican bean beetle	1/2 to 1		OBSERVE BEE CAUTION Observe plant response
(DO NOT USE ON BIRDSFOOT TREFOIL IN CALIFORNIA)	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Potato leafhopper Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1 0 (clovers, birdsfoot trefoil) 7 (alfalfa)	Carbaryl may cause injury of tender alfalfa
	Grasshoppers	1/2 to 1 1/2		Refer to general directions above

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CROP	INSECT		QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Alfalfa Clovers Birdsfoot trefoil (Cont'd)	Alfalfa blotch leafminer	European alfalfa beetle	1 to 1 1/2	0 (clovers, birdsfoot trefoil)	On dense growth use 20 to 40 gallons per acre with ground equipment to ensure adequate coverage.	
	Armyworm	Fall armyworm		7 (alfalfa)		
	Cloverhead weevil Corn earworm Cutworms Egyptian alfalfa weevil larvae Essex skipper	Lygus bugs Stink bugs Webworms Yellowstriped armyworms				
	Alfalfa weevil larvae				For alfalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble.	
	West of the Rocky Mountains East of the Rocky Mountains		1 to 1 1/2 1 1/2			
Asparagus	Aspa. agus beetle		1 to 2	1	Treat ferns or brush growth. Do not treat more than once every 3 days.	
	Apache cicada Asparagus beetle		2 to 4	Post harvest application only		
Beans (including blackeyed peas, cowpeas, southern peas, dry beans, green beans, lima beans, navy beans and snap beans) Lentils (DO NOT USE ON LENTILS IN CALIFORNIA)	Blister beetles Mexican bean beetle		1/2 to 1		Observe plant response precautions.	
	Alfalfa caterpillar	Leafhoppers		0 (except cowpeas)		
	Bean leaf beetles	Three cornered alfalfa hopper	1			
	Cucumber beetles	Thrips				
	Flie beetles	Velvetbean caterpillar		3 (cowpeas)		
	Green cloverworm	Western bean cutworm				
	Japanese beetle					
	Grasshoppers		1/2 to 1 1/2			Refer to general GRASSHOPPER heading above.
	Armyworm Corn earworm Cutworms European corn borer	Fall armyworm Stink bugs Tarnished plant bug Webworms	1 to 1 1/2			
	Alfalfa Looper		1 1/2			CALIFORNIA ONLY
Cowpea curculio		2				
	Corn earworm Lima bean podborer	Lygus bugs Stink bugs	2			

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CROP	INSECT		QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cabbage Broccoli Brussels sprouts Cauliflower Kohlrabi	Flea beetles	Harlequin bug	1/2 to 1	3	
	Amyworm Corn earworm Diamondback moth Fall armyworm	Imported cabbage- worm	1 to 2		
Chinese cabbage Collards Hanover salad Horseradish Kale Mustard greens Radishes Rutabagas Turnips	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (horseradish, radishes, ruta- bagas and turnip roots)	
	Aster leafhopper		1 to 1 1/2	14 (Chinese cab- bage, collards, Hanover salad, kale, mustard greens, and turnip tops)	
	Amyworm Corn earworm Fall armyworm	Imported cabbageworm Stink bugs Tarnished plant bug	1 to 2		
Carrots Celery Parsley Parsnips (DO NOT USE ON CELERY IN CALIFORNIA)	Flea beetles	Leafhoppers	1/2 to 1	0 (carrots)	
	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	3 (parsnips)	Treat on a 5 to 7 day schedule.
	Amyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	14 (celery & parsley)	

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CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Corn (field, sweet, pop)	Armyworm Chinch bugs Corn earworm Corn rootworm adults Fall armyworm	Flea beetles Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 to 2	0	<p>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 foliage feeders, apply as necessary. Optimum timing and good coverage are essential for effective control. For optimum chinch bug control, apply at least 20 gallons of water per acre by ground and direct spray toward stalk to provide thorough coverage.</p> <p>Refer to general GRASSHOPPER heading above</p> <p>For optimum control, do not apply in less than 3 gallons of water per acre by air and 15 gallons of water per acre by ground.</p> <p>For optimum control, apply in a 12 inch band, over the row, using sufficient volume of water to obtain thorough coverage. For broadcast application use at least 20 gallons (ground) or 5 gallons (air) of water per acre.</p>
	Grasshoppers		1/2 to 1 1/2		
	European Corn borer		1 1/2 to 2		
	Western bean cutworm		2		
	Cutworms		2 to 3		
Cotton	Cotton fleahopper Cotton leafworm Flea beetles	Striped blister beetle Thrips	1/2 to 1	7	<p>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.</p> <p>For light to moderate populations in Western irrigated cotton.</p>
	Boll weevil Cotton bollworm Fall armyworm Leafrollers Leafhoppers	Tarnished plant bug Yellowstriped armyworm (cotton cutworm)	1 to 2		
	Lygus bugs		1 to 2		

CROP	INSECT		QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cotton (cont'd)	Pink bollworm		1 1/2 to 2 1/2		Aphid populations will be suppressed by repeated applications of this insecticide.
	Cutworms Stink bugs	Saltmarsh caterpillar	2		
Cucumber Melons Pumpkin Squash	Pickleworm	Melonworm	1/2 to 1		Observe plant response precautions.
	Cucumber beetles Flea beetles	Leafhoppers Squash bugs	1	0	
Dandelion Endive (Escarole) Lettuce Salsify	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (head lettuce & salsify roots)	Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.
	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	14 (dandelion, endive (escarole), leaf lettuce & salsify tops)	
	Armyworm Corn earworm Fall armyworm	Imported cabbageworm Stink bugs Tarnished plant bug	1 to 2		
Flax Proso Millet (NOT IN CALIFORNIA)	Armyworm		1 to 1 1/2	42	Do not graze treated areas or harvest for dairy feed prior to crop maturity.
	Grasshopper		1/2 to 1 1/2		Refer to the general GRASSHOPPER heading above.
Garden beet Spinach Swiss chard	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (garden beet roots)	Treat on a 5 to 7 day schedule.
	Aster leafhopper		1 to 1 1/2	14 (garden beet tops, spinach, Swiss chard)	
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2		
Okra	Corn earworm	Stink bugs	1 to 2	0	Treat on a 5 to 7 day schedule.

CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Pasture	Armyworm Black grass bugs Chinch bugs Essex skipper Fall armyworm	Range caterpillar Range crane fly Striped grass looper Thrips	1 to 1 1/2	0 (serial applications) 14 (ground applications)	To control thrips in grasses grown for seed use high spray pressure to improve penetration into boot. Apply a minimum 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 swath to avoid over-application.
	Grasshoppers		1/2 to 1 1/2	Refer to the general GRASSHOPPER heading above.	
Peanuts	Blister beetles	Mexican bean beetle	1/2 to 1	Observe plant response precautions.	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Rednecked peanutworm Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1		
	Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 to 1 1/2		
	Whitefringed beetle adults Cutworms		2		
Peas	Colorado potato beetle Leafhoppers		1	3	
	Armyworm		1 to 1 1/2		
	Alfalfa caterpillar Cutworms Pea leaf weevil	Pea weevil Yellowstriped armyworm	1 1/2		
	Alfalfa looper		2 1/2		

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CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Potato Tomato Eggplant Pepper	Colorado potato beetle Flea beetles Leafhoppers European corn borer Fall armyworm Lace bugs Stink bugs (suppression) Cutworms	1/2 to 1 1 to 2 2	0	Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and re-treat if reinfestation occurs.
Prickly Pear cactus	Cochineal scale (crawlers)	2	1	Apply as needed at 7-10 day intervals. Do not make more than 7 applications per season.
Rangeland	Black grass bug Hornon cricket Range caterpillars Range crane fly Grasshoppers	1/2 to 3/4 1/2 to 1 1/2	0	FOR AERIAL APPLICATIONS ONLY. Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Carefully mark swaths to avoid over-application. Refer to the general GRASSHOPPER heading above.
Rice	Armyworm Chinch bugs Fall armyworm Stink bugs	1 to 1 1/2	14	<u>MISSISSIPPI DELTA & TEXAS.</u> 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 catfish farming are included in the cultural practice. DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT. Refer to the general GRASSHOPPER heading above. <u>CALIFORNIA ONLY.</u> For optimum tadpole shrimp control apply to water when pest first appears.
	Grasshoppers	1/2 to 1 1/2		
	Armyworm Leafhoppers	Tadpole shrimp 2		

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CROP	INSECT	QUARTS OF "SEVIN" BRAND SL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS		
Sorghum (milo, grain sweet and hybrid)	Sorghum midge	3/4 to 1	21 (grain) 0 (forage)	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 the base of plants.		
	Armyworm	Fall armyworm			1 to 2	
	Chinch bugs	Stink bugs				
	Corn earworm	Webworms			1 1/2	
	Southwestern corn borer				1 1/2	
	Cutworms	2				
	Grasshoppers	1/2 to 1 1/2		This product will not effectively control the Southern green stink bug. Refer to the general GRASSHOPPER heading above.		
Soybeans	Bean leaf beetle	Japanese beetle	1/2 to 1	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 and to provide maximum survival of beneficial insects and spiders. Use the higher rates for heavy populations and larger instars.	
	Blister beetle	Mexican bean beetle				
	Cucumber beetles	Velvetbean caterpillar				
	Grape colaspis					
	Green cloverworm					
	Corn earworm					1/2 - 1 1/2
	Grasshoppers					1/2 to 1 1/2
	Alfalfa caterpillar	Three cornered alfalfa hopper				1
	Leafhoppers	Thrips				
	Armyworm	Fall armyworm				1 to 1 1/2
Cutworms	Webworms					
	Painted lady (Thistle caterpillar)	Woollybear caterpillar	1 1/2 to 2			
	Saltmarsh caterpillar	Yellowstriped armyworm				
Sugar beets	Armyworm	Flea beetles	1 to 1 1/2	14		
	Beet leaf beetle	Leafhoppers				
	Fall armyworm	Webworms				
	Grasshopper	1/2 to 1 1/2		Refer to general GRASSHOPPER heading above.		
	Cutworms	1 1/2				

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CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Sunflower (DO NOT USE IN CALIFORNIA)	Cutworms	1 1/2	60	Refer to general GRASSHOPPER heading above.	
	Armyworm	1 1/2 to 2			
	Fall armyworm				
	Sunflower moth				
	Stem weevil	Sunflower beetle	1 to 2		
	Grasshopper	1/2 to 1 1/2			
Sweet Potato (DO NOT USE IN CALIFORNIA)	Corn earworm	Sweet potato hornworm	1 to 2	0	Apply as a foliar spray as needed.
	Cucumber beetles	Tortoise beetles			
	Flea beetles				
	Yellowstriped armyworm		2		
	Sweet potato weevil		1 to 2		Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
Tobacco Plant bed Treatment	Flea beetle		1	0	OBSERVE PLANT RESPONSE PRECAUTIONS. For flea beetle control, use 4 teaspoons (0.7 fl. oz.) in 6 gallons of water and apply to 100 square yards. For green June beetle grub control mix 11 tablespoons (5.5 fl. oz.) in 50 to 100 gallons of water and apply to 100 square yards. Applications should be made to areas that larvae have uprooted by sprinkling mixture as a drench treatment.
	Green June beetle grubs		8		
Field Treatment	Budworms	Japanese beetle	1 to 2		Use lower rate on young plants (up to knee height). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small.
	Fall armyworm	June beetle			
	Flea beetles	Suckfly			
	Hornworms				

CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Waste land, Rights-of-Way, Hedge-rows, Ditch-banks, Road-sides	Black grass bug	1/2 to 1	0 (aerial applications)	Apply a maximum of 2 applications per year. Allow at least 14 days between applications.
	Mormon cricket Range caterpillars Range crane fly		14 (ground applications)	
	Grasshoppers	1/2 to 1 1/2		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-application.
Wheat (including triticale) (DO NOT USE IN CALIFORNIA)	Flea beetles	1/2 to 1		Refer to the general GRASSHOPPER heading above.
	Grasshoppers	1/2 to 1 1/2		
	Cereal leaf beetle	1	0 (forage)	Application is effective against eggs, larvae and adult of the cereal leaf beetle.
	Armyworm	Fall armyworm	1 to 1 1/2	

TREE FRUIT AND NUT CROPS

Apply the recommended amount of SEVIN brand SL Carbaryl insecticide in 100 gallons of water. Use hand or power-operated sprayer to wet leaves and branches to the dripping point.

APPLE THINNING

CROP	QUARTS OF "SEVIN" BRAND SL/ 100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apples	1/4 to 1/2	1	<p>OBSERVE BEE CAUTION. Apply 1 full coverage dilute spray between 10 and 25 days after full bloom. Factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with the product. Exercise caution to avoid possible yield reduction. Rates may vary depending on variety and local orchard conditions.</p> <p>Consult with your County Extensions Service or other experts for advice on the proper use of this product.</p> <p>In Eastern apple growing areas, tank mix combinations of Carbaryl and Naphthaleneacetic Acid (NAA) or Naphthaleneacetamide (NAD) have successfully thinned several early-maturing, heavy-setting varieties, as well as hard-to-thin varieties such as Golden Delicious and Rhode Island Greening. The higher rate of Carbaryl and reduced rates of NAA or NAD followed 7 to 10 days later by an application of Carbaryl has improved thinning on these varieties.</p> <p>For easily thinned varieties including Cortland, Grimes, Johathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.</p>
	1/2 to 1	1	<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>

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CROP	INSECT	QUARTS OF SEVIN BRAND SL/ 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Fruit tree leafroller Peach twig borer San Jose scale	1	28	OBSERVE BEE CAUTION 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.
	Navel orangeworm			Time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of hull split or up to 10% hull split.
Avocados (FOR CALIFORNIA USE ONLY)	Gypsy moth Japanese beetle	1	1	FOR USE IN JAPANESE BEETLE AND GYPSY MOTH ERADICATION PROGRAMS IN CALIFORNIA ONLY. Use with ground equipment and spray to run off. Apply when insects or their damage appear. Do not make more than 1 application per season.
Chestnut (DO NOT USE IN CALIFORNIA)	Chestnut weevil	2 to 3	0	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	QUARTS OF SEVIN BRAND SL/ 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Pecans	Black margined aphid Fall webworm Hickory shuck- worm Lesser webworm Pecan leaf phylloxera	Pecan nut casebearer Pecan stem phylloxera Pecan spittlebug Pecan weevil Twig girdler Walnut caterpillar	1 to 2 1/2	0	
Pistachios	Naval Orangeworm	1 to 2	14	Apply dilute volumes of 150 to 300 gallons of mixed spray per acre for full coverage at onset of hull split.	
Plums Prunes Cherries	Codling moth Eastern tent caterpillar	Orange tortrix Tussock moth	3/4		
	Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot European earwig Eyespotted bud moth Forbes scale Fruittree leaf- roller Green fruitworm Gypsy moth Japanese beetle	Lecanium scales Lesser peachtree borer Mealy plum aphid Oystershell scale Peach twig borer Plum curculio Prune leafhopper Redbanded leaf- roller Rose chafer San Jose scale Variegated leafroller	1	1	For optimum scale control apply when crawlers are present. For lesser peachtree borer controls spray limbs and tree trunks thoroughly at weekly intervals during moth flight.

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Pomefruit
(including
apples, pears,
loquats, crab-
apples,
oriental pears
and quince)

Apple aphid
Apple maggot
Apple rust mite
Apple sucker
Bagworms
California pearslug
(pear sawfly)
Eastern tent
caterpillar
European apple
sawfly
Eyespotted bud moth
Forbes scale
Fruittree
leafroller
Green fruitworm
Gypsy moth
Lecanium scales
Lesser appleworm

Lygus bugs
Orange tortrix
Oystershell scale
Pearleaf
blister mite
Pear psylla
Pear rust mite
Periodical
cicada
Plum curculio
Redbanded leaf-
roller
Rosy apple aphid
San Jose scale
Tarnished plant
bug
Tentiform leaf-
miners
Woolly apple
aphid
Yellowheaded
fireworm

3/4 to 1 . 1

Apple mealybug
Apple aphid
Codling moth

White apple
leafhopper

1/2

Japanese beetle

3/4

OBSERVE BEE CAUTION

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.

To control scale insects, apply when
crawlers are present.

Walnut

Calico scale
Codling moth
European fruit
lecanium

Hilbertworm
Fruittree
leafroller
Frosted scale

1/2
1/2

0

Navel Orangeworm

1

European earwig

2

Apply as needed with ground equipment
at 7-14 day intervals.

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.

For navel orangeworm, time
application to coincide with peak egg
laying activity at time of or
following hull split.

Spray tree trunks to point of
run-off.

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SMALL FRUIT CROPS

Recommended dosages refer to quarts of SEVIN brand 4F Carbaryl insecticide per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonage per acre range from 100-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 5-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	INSECT	QUARTS OF "SEVIN" BRAND SL/ 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 to 2	7
	Omnivorous leafroller Raspberry sawfly		2	CALIFORNIA ONLY
Blueberries Cherry fruitworm	Blueberry maggot lecanium Cranberry fruitworm	European fruit 1 1/2 to 2 Japanese beetle	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworms Cranberry twig girdler	Elm spanworm Japanese beetle Leafhoppers Rose chafer Spagenothus worm	1 1/2 to 3	1 CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Apply in late bloom and as needed at 7 to 10 day intervals.
Grapes	European fruit lecanium Grape leafroller Grape leafhopper	Western grapeleaf skeletonizer Western yellow-striped armyworm	1 to 2	0 Apply before first brood leafroller larvae emerge from rolls.
	Cutworms Eight-spotted forester Grape berry moth Japanese beetles June beetles	Orange tortrix Omnivorous leafroller Redbanded leafroller Saltmarsh caterpillar	2	
Strawberries	Flea beetles Meadow spittlebug (strawberry fruitworm) Omnivorous leaflier Strawberry clipper	Strawberry bud weevil Strawberry leafroller Strawberry weevil	1 to 2	1 Carbaryl may injure Early Dawn and Sunrise varieties.

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TREES AND ORNAMENTALS

For control of certain insects on trees, ornamentals, woody plants and shrubs, apply the recommended amount of SEVIN brand SL Carbaryl insecticide in 100 gallons of water. Use hand or power-operated sprayer to wet leaves and twigs to the dripping point. Do not use on Boston ivy, Virginia creeper and maidenhair fern. During early season it may also injure Virginia and sand pines.

INSECT	AMOUNT OF SEVIN BRAND SL TO PREPARE		SPECIFIC DIRECTIONS
	3 Gal.	100 Gal.	
Ants	Holly bud moth	Psyllids	Observe plant response precautions.
Apple aphid	Holly leafminer	Puss caterpillar	
Armyworm	Jackpine budworm	Redhumped oakworm	1 oz. 1 qt.
Azalea leaf-miner	Japanese beetle	Rose aphid	
Bagworms	Jeffrey pine needleminer	Rose chafer	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.
Birch leafminer	June beetles	Roseslug	
Blister beetle	Lace bugs	Saddled prominent	Applications for control of maple leafcutter on sugar maple should be made when larvae are in 2nd instar after mining and as cases are being formed.
Boxelder bug	Leafhoppers	Sawflies (exposed)	
Boxwood leaf-miner	Leafrollers	Scale insects	DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.
Browntail moth	Locust borer	Sowbugs	
Cankerworms	Maple leafcutter	Spiney elm caterpillar	
Cataips sphinx	Mealybugs	Springtails	
Chiggers	Mimosa webworm	Spruce needle-miner	
Cutworms	Nantucket pine tip moth	Subtropical pine tip moth	
Cypress tip moth	Oak leafminers	Tent caterpillars	
Eastern spruce gall adelgid	Oak leaf skeletonizer	Thrips (exposed)	
Elm leaf aphid	Oak moth	Ticks	
Elm leaf beetle	Oakworm complex	Tree hoppers	
Elm spanworm	Oleander caterpillar	Walnut caterpillar	
Eriophyid mites	Olive ash borer	Webworms	
European pine shoot moth	Orangestriped oakworm	Western hemlock looper	
Fall armyworm	Orange tortrix	Willow leaf beetles	
Flea beetles	Periodical cicada	Yellow poplar weevil	
Fuchsia gall mite	Pine looper		
Fuller rose beetle	Pine sawfly		
Gall midges	Pine spittlebug		
Gall wasps	Pitch pine tip moth		
Greenstriped mapleworm	Plant bugs		
Grasshoppers	Poinsettia hornworm		
Gypsy moth			
Hackberry nipplegall maker			

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TREES AND ORNAMENTALS (CONT'L)

INSECT	AMOUNT OF SEVIN BRAND SL TO PREPARE		SPECIFIC DIRECTIONS
	3 Gal.	100 Gal.	
Balsam twig aphid Cooley spruce gall adelgid Douglas-fir tussock moth	Spruce budworm Western spruce budworm	1 to 2 oz.	1 to 2 qts. Use the higher rate when large larvae or heavy populations are present.
Ips engraver beetles Mountain pine beetle Roundheaded pine beetle Spruce beetle Western pine beetle		1 pt.	16 qts. Effective for beetle control or as a protective treatment Apply 1 gallon of spray per 50 square feet of bark prior to beetle flight or host-tree attack. Treat tree trunks from ground level up, until trunk diameter is less than 5 inches. Repeat treatments as needed.
Elm Bark Beetle			Apply approximately 20-30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs.

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LAWNS AND RECREATIONAL AREAS

For control of certain turfgrass pests, apply the recommended rates using hose end sprayers or pressure type equipment in sufficient spray volume for thorough coverage and turf thatch penetration. Where a dosage range is indicated, use the higher rate on large pest populations, advanced instars and dense vegetation. Repeat treatment as necessary.

DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

SITE	INSECT	AMOUNT OF SEVIN BRAND SL		SPECIFIC DIRECTIONS	
		FL. OZ./ 1000 SQ. FT.	QUARTS/ ACRE		
Turf grasses	Ants Armyworm Centipedes Chiggers Cutworms Earwigs Essex skipper European chafer Fall armyworm Fiery skipper Grasshoppers Green June beetle grub	June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes (adults) Sowbugs Spittlebugs Springtails Ticks Yellowstriped armyworm	1 1/2 to 3	2 to 4	For Army worm, Cutworm and Fall Armyworm Control: Do not irrigate treated areas following insecticide application. For Green June Beetle Grub Control: Make applications when grubs are feeding near the soil surface. Water or irrigate turf grasses soon after treatment.
	Chinch bugs Sod Webworm (lawn moths)		4.4 to 6	6 to 8	For Chinch Bug Control: Treat entire grass area rather than just damaged areas. Irrigation of turf grass area before treatment will aid in penetration of insecticide into turf grass. For Sod Webworm Control: Do not irrigate treated areas following insecticide application.

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LAWNS AND RECREATIONAL AREAS (CON. J)

For control of certain turfgrass pests, apply the recommended rates in sufficient spray volume for thorough coverage and turf thatch penetration. Where a dosage range is indicated, use the higher rate on large pest populations, advanced instars and dense vegetation. Repeat treatment as necessary.

DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

INSECT	AMOUNT OF SEVIN BRAND SL		SPECIFIC DIRECTIONS
	FL. OZ./ 1000 SQ. FT.	QUARTS/ ACRE	
Bluegrass billbug European crane fly Fleas White grubs (such as Japanese beetle, Chafer beetle and <u>Phyllophaga</u> spp. larvae)	6	8	For European Crane Fly Control: Treatments should be applied in early spring, April 1 to April 15, or as recommended by local Agricultural Extension Service agents. Water or irrigate turf grasses thoroughly soon after treatment. 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 recom- mended by local Agricultural Extension Service agents. Water or irrigate turf grasses thoroughly soon after treatment.

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IMPORTED FIRE ANT CONTROL

SITE	AMOUNT OF SEVIN BRAND SL/ VOLUME OF WATER	SPECIFIC DIRECTIONS
Lawns, Cemeteries and Recreational Areas (including turf, golf courses, and parks) Pastures Rangeland Forested Lands and Wasteland	1 1/2 quarts/ 100 gallons or 1 1/2 tablespoons/ gallon	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 degrees 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. DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OF
UNTIL SPRAYS HAVE DRIED.		
Nursery Stock, Vegetable Transplants, Foliage Plants and Bedding Plants	1 1/2 quarts/ 100 gallons	DO NOT USE ON ANY FOOD CROP NOT LISTED ON LABEL. Do not make more than one application, either as a root-dip or a drench treatment (applied to the point of saturation). Avoid contact with foliage and treat only the growing media when using on bedding plants.

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ADULT MOSQUITO CONTROL

For dilute-spray ground applications to trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas), 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. To prepare small volumes of spray, use 1 tablespoon (1/2 fluid ounce) of SEVIN brand SL Carbaryl insecticide per gallon of water, where rates of 1 quart are indicated.

SITE	QUARTS OF SEVIN BRAND SL/100 GALS.	SPECIFIC DIRECTIONS
Pastures, Rangelands, Parks, Recreational Areas, Logging Camps, Military Posts and Adjacent Forested lands or Wetlands	1/4 to 1 (1/2 to 1 tablespoonful per gallon)	<p>DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.</p> <p>CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources.</p> <p>OBSERVE BEE CAUTION</p> <p>Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early mornings or late evenings. Repeat at 7 to 10 day intervals.</p> <p>Use 1/4 to 1/2 quart per 100 gallons in mistblowers, and 1 quart per acre in aerial sprays and 1 quart per acre in low pressure ground sprayers.</p>
25		For residual control in subtropical regions apply 4 gallons of prepared spray per 2000 square feet of surface area. Repeat in 3 to 6 months or when necessary.

POULTRY ROOSTS AND BUILDINGS ONLY

POULTRY QUARTERS	QUARTS OF "SEVIN" BRAND SL/100 GAL.	SPECIFIC DIRECTIONS
Bed bugs Chicken mite Fleas Lice Northern fowl mite	4	<p>DO NOT TREAT POULTRY OR GAME BIRDS.</p> <p>Apply 1 to 2 gallons of spray mixture per 1000 square feet of wall, litter or roost surface. Force spray into cracks. Repeat as needed.</p> <p>Avoid spraying nests, eggs and feeding and watering troughs.</p>
Fowl tick	16	Ventilate while spraying. Do not treat premises within 7 days of slaughter.
Lesser mealworms	50	<p>Apply 2 gallons of spray mixture per 1000 square feet of floor space or litter surface. Repeat as needed.</p> <p>Ventilate while spraying. Do not treat premises within 7 days of slaughter.</p>

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GREATER ACCURACY IN CALIBRATION AND DISTRIBUTION WILL BE ACHIEVED BY INJECTING A LARGER VOLUME OF A MORE DILUTE SOLUTION PER UNIT TIME.

APPLICATION OF MORE THAN LABEL RECOMMENDED QUANTITIES OF IRRIGATION WATER PER ACRE MAY RESULT IN DECREASED PRODUCT PERFORMANCE.

APPLY "SEVIN®" BRAND SL CARBARYL INSECTICIDE ONLY THROUGH PROPERLY MAINTAINED IRRIGATION SYSTEMS WITH ACCEPTABLE PESTICIDE APPLICATION AND SAFETY EQUIPMENT. PUMPED OR PRESSURIZED SYSTEMS MUST CONTAIN OPERATING ANTI-SIPHON CHECK VALVE(S), VACUUM BREAKER(S), AND LOW PRESSURE DRAIN(S) TO PREVENT SOURCE WATER CONTAMINATION. PESTICIDE-CONTAINING LINES, BETWEEN THE PESTICIDE INJECTION SYSTEM AND IRRIGATION SYSTEM, MUST CONTAIN OPERATING VALVE(S) TO PREVENT MATERIAL MOVEMENT WHEN THE APPLICATION IS STOPPED. ONLY SYSTEMS WHICH CONTAIN EITHER CONTROLS TO AUTOMATICALLY SHUT OFF PESTICIDE INJECTION WHEN WATER FLOW RATE CHANGES OR WHICH ARE CONTINUOUSLY MONITORED SHOULD BE USED.

A POSITIVE DISPLACEMENT PUMP SHOULD BE USED TO INJECT "SEVIN®" BRAND SL CARBARYL INSECTICIDE INTO THE MAIN LINE AHEAD OF A RIGHT ANGLE TURN TO INSURE ADEQUATE FORMULATION BREAK-UP AND MIXING. SYSTEMS NOT USING INJECTION PUMPS REQUIRE AT LEAST HOURLY CALIBRATION.

DO NOT APPLY WHEN WIND SPEED FAVORS DRIFT, WHEN SYSTEM CONNECTIONS OR FITTINGS LEAK, WHEN NOZZLES DO NOT PROVIDE UNIFORM DISTRIBUTION OR WHEN LINES CONTAINING THE PRODUCT MUST BE DISMANTLED AND DRAINED.

WHERE SPRINKLER DISTRIBUTION PATTERNS DO NOT OVERLAP SUFFICIENTLY, UNACCEPTABLE INSECT CONTROL MAY RESULT. WHERE SPRINKLER DISTRIBUTION PATTERNS OVERLAP EXCESSIVELY, PLANT INJURY MAY RESULT ON SENSITIVE CROPS.

ALLOW SUFFICIENT TIME FOR PESTICIDE TO BE FLUSHED THROUGH ALL LINES AND ALL NOZZLES BEFORE TURNING OFF IRRIGATION WATER.

DO NOT ALLOW IRRIGATION WATER TO COLLECT OR RUN OFF. IT MAY POSE A HAZARD TO LIVESTOCK, WELLS, ADJOINING CROPS, OR THE ENVIRONMENT.

DIRECTIONS FOR USE THROUGH OVERHEAD IRRIGATION SYSTEMS

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

APPLICATION INSTRUCTIONS

Prepare a suspension of SEVIN® brand SL Carbaryl Insecticide in a mix tank. Fill tank with 1/2 to 3/4 the desired amounts of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product, and then the remaining volume of water.

Set sprinkler to deliver 0.1 to 0.3 inches of water per acre. Start sprinkler and then uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre.

NOTE: When treatment with this product 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.

CALIBRATION:

Calibration of irrigation systems and injectors to apply SEVIN® brand SL Carbaryl Insecticide requires the following: 1) desired quarts of this product per acre, 2) quarts of this product per gallon of suspension, 3) divide item 1 by item 2 to determine the gallons of suspension needed per acre, 4) number of acres under center pivot in a complete revolution, 5) multiply item 3 times item 4 to determine the gallons of suspension needed per one complete revolution of the irrigation system, 6) number of hours to complete one revolution of the sprinkler applying to desired rate of water, and 7) divide item 5 by item 6 to determine the injection rate per hour.

PEST CONTROL IN AND AROUND BUILDINGS

General Information

NOTE: Staining may occur on certain surfaces such as stucco, brick, cinder block and wood. Therefore, applications of SEVIN® brand SL Carbaryl Insecticide to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics.

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.

INDOORS

CRICKETS/FIREBRATS/SILVERFISH: Mix 3.5 oz. this product per gallon of water and apply as fine, low pressure (20 psi) spot spray or as crack and crevice application to areas where these pests hide, such as baseboards, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas.

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BEEs and WASPS: Mix 3.5 oz. this product per gallon of water and thoroughly spray nest and entrance and surrounding areas where insects alight. It is generally advisable to spray the nests in the evening when the insects are less active and have returned to the nest. For best results, check nest carefully one or two days after spraying to ensure complete kill, then remove and destroy nest to prevent emergence of newly hatched insects.

BROWN DOG TICKS and FLEAS: Mix 3.5 oz. this product per gallon of water and thoroughly spray infested areas such as nearby cracks and crevices, along and behind baseboards, window and door frames and other areas where these pests may be present.

CARPENTER ANTS: Mix 7.0 oz. this product per gallon of water and apply to ant trails, around doors and windows and other places where ants enter premises. Where possible, apply this product directly to ant nest or infested wood.

CENTIPEDES/EARWIGS/MILLIPEDES/SCORPIONS: Mix 3.5 oz. SEVIN® brand SL Carbaryl Insecticide per gallon of water and apply around water pipes, doors and windows, and other places where these pests may enter premises. Spray baseboards, storage areas, garages, carports, basements and other areas where these pests are found.

COCKROACHES: Efficacy varies with species sensitivity. This product is generally not highly effective in controlling German cockroaches. However, the following may be controlled with the rates as stated. American roach, Australian roach, Brown roach, Smoky brown roach, and others: Mix 7.0 oz. this product per gallon of water and apply as a fine, low pressure (20 psi) spot spray or as crack and crevice application to areas where these pests hide, such as baseboard, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas.

SPIDERS: Mix 3.5 oz. this product per gallon of water and apply to infested baseboards, window and door frames, corners, pipes, storage areas, attics and under eaves. Make spot applications to other areas where these pests are present.

OUTDOORS

PERIMETER TREATMENT: Residual spray for control of ants, bees and wasps, brown dog ticks, carpenter ants, centipedes, cockroaches, crickets, earwigs, firebrats and silverfish, fleas, millipedes, scorpions and spiders. Mix 7.0 oz. this product per gallon of water and apply via power spray or other spray methods.

To help prevent infestations of buildings by the above pests, outside perimeter treatment should be in a band 6 to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Direct application to structures should be minimal and restricted to cracks and crevices and other areas where insects tend to congregate.

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ANTS: Mix 7.0 oz this product per gallon of water and apply as fine, low pressure (20 PSI) spot spray or as crack and crevice application to ant trails, around doors and windows, and other places where ants enter premises.

STORAGE AND DISPOSAL

STORAGE

Store unused product 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. This product may be used following exposure to several freeze-thaw cycles.

If container is damaged, before cleaning up, put on long-sleeved shirt, full length trousers, head covering, and protective gloves.

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

*Do not reuse container. Rinse thoroughly before discarding in trash.

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.

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