

PM12
264-423

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SEVIN® brand FL
Carbaryl Insecticide

For Agricultural or Commercial Use Only

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate) 41.6% by wt.

INERT INGREDIENTS 58.4% by wt.

This product contains the toxic inert ingredient formaldehyde.

(Contains 4 pounds carbaryl per gallon)

E.P.A. Reg. No. 264-423

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

See page 2 for additional PRECAUTIONARY STATEMENTS.

IN CASE OF EMERGENCY TELEPHONE(24 HOURS A DAY) IN U.S.A.

1-800-UCC-HELP

FOR GENERAL PRODUCT INFORMATION CALL 1-800-334-9745.

NET CONTENTS: _____
Made in U.S.A.

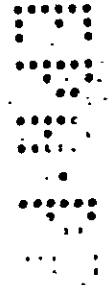
UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.
P. O. Box 12014, T. W. Alexander Drive
Research Triangle Park, NC 27709

SEVIN is a registered trademark of Union Carbide Corporation for carbaryl insecticides.

APC Form No. _____

ACCEPTED
DEC 1 0 1987
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 264-423

OCT 20 1987



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PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

MAY BE HARMFUL IF SWALLOWED. Avoid breathing spray mist. Do not take internally. Avoid contact with eyes, skin or clothing. Wear regular long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling.

ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. 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 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.

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.

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

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

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analyses will be arranged by Union Carbide Agricultural Products Company, Inc.

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

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water and wetlands, except under the forest canopy and use on rice. 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.

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 Union Carbide Agricultural Products Company representative for further information.

DIRECTIONS FOR USE

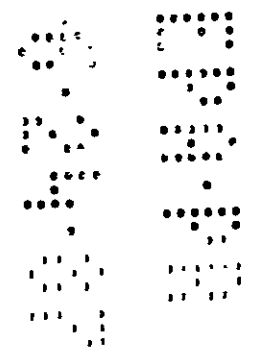
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL INFORMATION

SEVIN® brand FL Carbaryl Insecticide is a suspension of microfine SEVIN carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by air or ground. READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL AND STATE REGULATIONS.

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 fields during application and until sprays have dried. Regular long-sleeved work clothing should be worn when working in treated fields. See PRECAUTIONARY STATEMENTS, STATEMENT OF PRACTICAL TREATMENT and NOTE TO PHYSICIAN for information on accidental exposures. 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 FL Carbaryl Insecticide, date of application, appropriate clothing, and re-entry interval (i.e, until sprays have dried).

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. 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

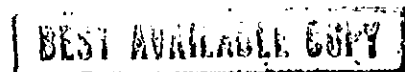
To avoid possible injury to tender foliage, do not apply to wet foliage or when rain or high humidity is expected during the next two days.

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 PRODUCT, AGITATE, STIR OR RECIRCULATE ALL CONTAINERS OF "SEVIN®" BRAND FL CARBARYL INSECTICIDE 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 FL Carbaryl Insecticide, and then 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.

WASHOFF RESISTANCE AND COVERAGE

Dilution of 1 volume of SEVIN® brand FL Carbaryl Insecticide with 1 volume of water will allow maximum resistance to washoff by rainfall or overhead irrigation. Dilutions higher than 1:39 are not recommended when washoff resistance is desired.

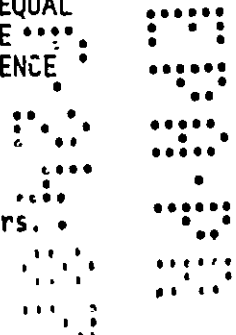
SEVIN® brand FL Carbaryl Insecticide must be diluted as stated above, and droplets must dry on the foliage before they become washoff resistant. When atmospheric humidity is low, a drying time of at least one hour is generally adequate. Under high humidity a longer drying time may be required. Washoff resistance cannot be expected if SEVIN® brand FL Carbaryl Insecticide is applied to wet foliage which does not dry adequately prior to rainfall or overhead irrigation.

On all crops use sufficient spray volume to obtain thorough coverage. Optimum pest control under certain crop, pest or climatic conditions may require spray gallonages higher than the 1:39 dilution. For example in hot, dry weather, or when humidity is low, higher spray gallonage per acre may be required to minimize loss from evaporation and insure thorough coverage. The total spray volume required for effective pest control can best be determined by previous experience, pest and crop conditions and local recommendations.

COMPATIBILITY

SEVIN® brand FL Carbaryl Insecticide, when diluted with 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 of SEVIN® brand FL 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®" BRAND FL 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, 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.



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APPLICATION

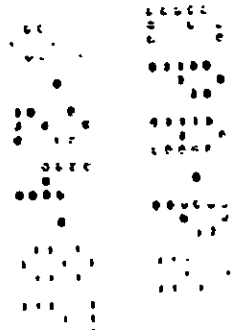
On all crops use sufficient gallonage to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. The flow rate of SEVIN® brand FL Carbaryl Insecticide diluted 1:1 with water is similar to water. Use 50 mesh slotted strainers in spray system and 25 mesh slotted 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 proper disposal of this water and detergent mixture and 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 FL 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 FL Carbaryl Insecticide. If local experience indicates inadequate control, use an alternative pesticide.



Apply in sufficient spray volume to obtain thorough coverage. Where maximum washoff resistance is needed, (vol/vol) dilution with water. Do not dilute greater than 1:39 where washoff resistance is desired. To spray, use 1 tablespoonful (1/2 fluid ounce) of SEVIN brand FL Carbaryl insecticide per gallon of water per acre or 1 quart per 100 gallons are indicated in the tables below.

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage, Field and Vegetable Crops in This Section	Grasshoppers	1/2 to 1 1/2	See specific Forage, Field or Vegetable Crop	Use 1/2 to 1 small plants wasteland, and borders. for adult grasshoppers applications
Alfalfa Clovers	Blister beetles Mexican bean beetle	1/2 to 1	0 (clovers) 3 (alfalfa)	Observe plant
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	
Asparagus	Alfalfa weevil larvae Armyworm Cloverhead weevil Corn earworm Cutworms Egyptian alfalfa weevil larvae Essex skipper	European alfalfa beetle Fall armyworm Lygus bugs Stink bugs Webworms Yellowstriped armyworms	1 to 1 1/2	For alfalfa pretreatment alfalfa and higher rate Rocky Mountain 25 to 40 gal equipment to coverage.
	Asparagus beetle	1 to 2	1	
	Apache cicada Asparagus beetle	2 to 4	Post harvest application only	Treat ferns Do not treat days.

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
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	1/2 to 1		Observe plant response precautions.	
	Alfalfa caterpillar	Leafhoppers			
	Bean leaf beetles	Three cornered alfalfa hopper	1		0 (except cowpeas)
	Cucumber beetles	Thrips			
	Flea beetles	Velvetbean caterpillar			3 (cowpeas)
	Green cloverworm	Western bean cutworm			
Japanese beetle					
Armyworm	Fall armyworm				
Corn earworm	Stink bugs				
Cutworms	Tarnished plant bug	1 to 1 1/2			
European corn borer	Webworms				
Cowpea curculio		2			
Corn earworm	Lygus bugs			CALIFORNIA ONLY	
Lima bean pod borer	Stink bugs	2			

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

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Corn (field, sweet, pop)	Armyworm Chinch bugs Corn earworm Corn rootworm adults European corn borer Fall armyworm	Fliea beetles Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 to 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 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.
	Western bean cutworm		2		Treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
	Cutworms		2 to 6 1/2		Apply in a 12 inch band, using 6 fluid ounces per 1000 linear feet of row, in at least 15 gallons of water per acre. For broadcast application use 6.5 quarts in at least 20 gallons (ground) or 5 gallons (air) of water per acre.

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Cotton	Cotton fleahopper Cotton leafworm Flea beetles	Striped blister beetle Thrips	1/2 to 1	7	Early season insect control.
	Boll weevil Bollworms Cotton leaf-perforator Fall armyworm Leafrollers Leafhoppers	Tarnished plant bug Yellowstriped armyworm (cotton cutworm)	1 to 2		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.
	Lygus bugs		1 to 2		For light to moderate populations in Western irrigated cotton.
	Pink bollworm		1 1/2 to 2 1/2		Aphid populations will be suppressed by repeated applications of this insecticide.
	Stink bugs	Saltmarsh caterpillar	2		
Cucumber Melons Pumpkin Squash	Pickleworm Cucumber beetles Flea beetles	Melonworm Leafhoppers Squash bugs	1/2 to 1 1	0	Observe plant response precautions. Avoid excessive applications.
Dandelion Endive (Escarole) Lettuce Salsify	Flea beetles Halequin 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 bus	Spittlebugs	1 to 1 1/2	14 (dandelion, endive (escarole), leaf lettuce & salsify tops)	
	Armyworm Corn earworm Fall armyworm	Imported cabbage worm Stink bugs Tarnished plant bug	1 to 2		
Forage Grasses Pasture Rangeland	Armyworm Black grass bugs Chinch bugs Essex skipper Fall armyworm	Range caterpillars Range crane fly Striped grass looper Thrips	1 to 1 1/2	0	To control thrips in grasses grown for seed use high spray pressure to improve penetration into boot.
	White grubs (green June beetle)		1 1/2 to 2		

CROP	INSECT		QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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	
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	(garden beet tops, spinach, Swiss chard)	
Okra	Corn earworm	Stink Bugs	1 to 2	0	Treat on a 5 to 7 day schedule.
Peanuts	Blister beetles	Mexican bean beetle	1/2 to 1		Observe plant response precautions.
	Alfalfa cater- pillar	Rednecked peanutworm	1	0	
	Bean leaf beetle	Three cornered alfalfa hopper			
	Cucumber beetles	Thrips			
	Green cloverworm Japanese beetle Leafhoppers	Velvetbean cater- pillar			
	Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 to 1 1/2		
	Whitefringed beetle adults Cutworms		2		
Peas	Colorado potato beetle		1	3	
	Leafhoppers				
	Armyworm		1 to 1 1/2		
	Alfalfa cater- pillar Cutworms Pea leaf weevil	Pea weevil Yellowstriped armyworm	1 1/2		
	Alfalfa looper		2 1/2		WASHINGTON STATE ONLY

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Potato Tomato Eggplant Pepper	Colorado potato beetle Flea beetles Leafhoppers	1/2 to 1		
	European corn borer Fall armyworm Lace bugs Stink bugs	Tarnished plant bug Tomato fruitworm Tomato hornworm Tomato pinworm	1 to 2	0
	Cutworms	2		
Rice				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. MISSISSIPPI DELTA & TEXAS.
	Armyworm Chinch bugs	Fall armyworm Stink bugs	1 to 1 1/2	14
	Armyworm Leafhoppers	Tadpole shrimp	2	CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when pest first appears.
Sorghums (milo, grain sorghum, sweet sorghum and hybrids)	Armyworm Chinch bugs Corn earworm	Fall armyworm Stink bugs Webworms	1 to 2	21 (grain)
	Sorghum midge Southwestern corn borer		1 1/2	0 (forage)
	Cutworms	2		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.

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Soybeans	Bean leaf beetle Cucumber beetles Green cloverworm	Mexican bean beetle Velvetbean caterpillar	1/2	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		1/2 to 3/4 1 to 1 1/2	
	Blister beetles Grape colaspis Mexican bean beetle		1/2 to 1	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	
	Armyworm Cutworms	Fall armyworm Stink bugs Webworms	1 to 1 1/2	
	Painted lady (Thistle caterpillar)	Saltmarsh caterpillar Yellowstriped armyworm	2 to 2 1/2	
Sugar beets	Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 to 1 1/2	14
	Cutworms		1 1/2	
Sunflower	Cutworms		1 1/2	DO NOT USE IN CALIFORNIA.
	Armyworm Fall armyworm		1 1/2 to 2	
	Stem weevil	Sunflower beetle	1 to 2	

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CROP	INSECT	QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sweet Potato	Corn earworm Cucumber beetles Flea beetles Sweet potato hornworm Tortoise beetles	1 to 2	0	DO NOT USE IN CALIFORNIA. Apply as a foliar spray as needed.
	Yellowstriped armyworm	2		
	Sweet potato weevil		1 to 2	FOLIAR APPLICATION Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
Tobacco	Tobacco flea beetle	2 Tbs/gallon or 1 qt/50 gal. and apply 6 gal/100 sq. yards	0	IN PLANT BEDS To prevent plant injury, avoid excessive applications.
	Green June beetle grubs	1/2 qt/100 gallons		Apply only to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per 100 square yards.
	Budworms Fall armyworm Flea beetles Hornworms	Japanese beetle June beetle Suckfly	1 to 2	IN FIELDS 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. If late season applications are necessary, allow three days before priming or cutting.

CROP	INSECT	QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Wasteland, Rights-of-Way, Hedge-rows, Ditch-banks, Roadsides	Black grass bugs Mormon Cricket Range caterpillars Range crane fly	1/2 to 1	0 (aerial application) 14 (ground applications)	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 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.
	Grasshoppers			Refer to general GRASSHOPPER heading above.
Wheat	Cereal leaf beetle	1	0 (forage)	DO NOT USE IN CALIFORNIA. Application is effective against eggs, larvae and adults.
	Armyworm Fall armyworm	1 to 1 1/2	21 (grain)	

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays increase the concentration of SEVIN brand FL 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 of aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	QUARTS OF "SEVIN" BRAND FL 100 GAL.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
APPLE THINNING			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.
Apples only	1/4 to 1/2	1	Consult with your County Extension Service or other experts for advice on the proper use of this product. For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.
	1/2 to 1	1	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.

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CROP	INSECT	QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach twig borer San Jose scale Fruittree leafroller	1	28	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. Do not apply more than 5 quarts 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 leaf- miners Woolly apple aphid	3/4 to 1 1 1/2	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 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	White apple leafhopper Pear psylla Pear leaf blister mite Pear rust mite Periodical cicada Plum curculio Redbanded leaf- roller Rosy apple aphid San Jose scale Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowheaded fireworm	1 1	EAST OF THE ROCKY MOUNTAINS To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control apply when crawlers are present.

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CROP	INSECT	QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Chestnuts	Chestnut weevil	2 to 3	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.
Citrus Fruits (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats and hybrids)	Avocado leafroller	Orange tortrix	1	Do not apply more than 20 quarts of this product per acre per application.
	California orangedog	Western tussock moth		
	Citrus cutworm	West Indian sugarcane borer (adults)	5	Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.
	Citrus root weevil			
	Fruittree leafroller			
	Black scale	Citricola scale	3/4 to 1	
	Brown soft scale	Citrus snow scale		
	California red scale	Yellow scale		
Filbert	Filbert aphid		1	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.
	Filbert leafroller		0	
	Filbertworm			
Olives	Olive scale	3/4 to 1	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 15 quarts of this product per acre per application.
Peaches	Apple pandemis	Orange tortrix	1 (peaches) 3 (apricots & nectarines)	Do not apply more than 6 quarts of this product per acre per application to apricots.
Apricots	Codling moth	Oriental fruit moth		
Nectarines	Cucumber beetles	Peach twig borer		
	European earwig	Periodical cicada		
	Fruittree leafroller	Plum curculio		
	Japanese beetle	Redbanded leaf-roller		
	June beetles	San Jose scale		
	Lecanium scales	Tarnished plant bug		
	Lesser peachtree borer	Tussock moths		
	Olive scale	Variegated leafroller		

CROP	INSECT	QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS		
Pecans application.	Black margined aphid	Pecan stem pylloxera		Do not apply more than 7.2 quarts of this product per acre per		
	Fall webworm Hickory shuck- worm Lesser webworm Pecan leaf phylloxera	Pecan nut casebearer Pecan spittlebug Pecan weevil Twig girdler Walnut caterpillar	1 to 2 1/2		0	
Pistachios	Navel orangeworm		1/2 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	Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot European earwig Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Japanese beetle Lecanium scales	Lesser peachtree borer Mealy plum aphid Oystershell scale Peach twig borer Plum curculio Prune leafhopper Redbanded leafroller Rose chafer San Jose scale Variegated leafroller		1	1	Do not apply more than 6 quarts of this product per acre per application. For optimum scale control apply when crawlers are present. For lesser peachtree borer control spray limbs and tree trunks thoroughly, weekly during moth flight.
	Codling moth Eastern tent caterpillar	Orange tortrix Tussock moth	3/4			

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CROP	INSECT	QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Walnut	Calico scale European fruit lecanium	Fl-bertworm Fruittree leafroller Frosted scale	1/2	0	Apply 1000 gallons of dilute spray per acre for mature trees.
	Codling moth		1/2		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.
	European earwig		2		Spray tree trunks to point of run-off.

SMALL FRUIT CROPS

Recommended dosages refer to quarts of SEVIN brand FL 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 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	INSECT	QUARTS OF "SEVIN" BRAND XLR PLUS ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Blackberries Raspberries Dewberries (including boy- senberries 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	Blueberry maggot Cherry fruitworm Cranberry fruitworm	European fruit lecanium Japanese beetle	1 1/2 to 2	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworms	Japanese beetle Leafhoppers Rose chafer	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.

CROP	INSECT	QUANTITY OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Grapes	European fruit lecanium Grape leafroller Grape leafhopper	Western grapeleaf skeletonizer Western yellow- striped army- worm 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 cater- pillar 2		
Strawberries	Flea beetles Meadow spittlebug Omnivorous leaflier (strawberry fruit- worm)	Strawberry leaf- roller Strawberry weevil 1 to 2	1	Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.

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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 Fl Carbaryl insecticide per gallon of water, where rates of 1 quart are indicated. 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	INSECT	QUARTS OF "SEVIN" BRAND FL A or 100 GAL	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.	Ants		Observe plant response precautions.
	Apple aphid		
AERIAL APPLICATION: Forest Trees (including shade trees, shelter belts, forests, parks and recreational areas) and Commercially Grown Ornamentals (including roses, flowers and other herbaceous plants), Woody Plants and Shrubs	Armyworm		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.
	Azalea leaf-miner		
	Bagworms		
	Birch leafminer		
	Blister beetle		
	Boxelder bug		
	Boxwood leaf-miner		
	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		
	Grasshoppers		
	Gypsy moth		
	Hackberry nipplegall maker		
	Holly bud moth		
	Holly leafminer		
	Jackpine budworm		
	Japanese beetle		
	Jeffrey pine needleminer		
	June beetles		
	Lace bugs		
	Leafhoppers		
	Leafrollers		
	Locust borer		
	Maple leaf-cutter		
	Mealybugs		
	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		
	Plant bugs		
	Poinsettia hornworm		
	Psyllids		
	Puss caterpillar		
	Redhumped oakworm		
	Rose aphid		
	Rose chafer	1	
	Rosetug		
	Saddled prominent Sawflies (exposed)		
	Scale insects		
	Sowbugs		
	Spiney elm caterpillar		
	Springtails		
	Spruce budworm		
	Spruce needle-miner		
	Subtropical pine tip moth		
	Tent caterpillars		
	Thorn bug		
	Thrips (exposed)		
	Ticks		
	Walnut caterpillar		
	Webworms		
	Western hemlock looper		
	Western spruce budworm		

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CROP	INSECT	QUARTS OF "SEVIN" BRAND FL	SPECIFIC DIRECTIONS
Trees and ornamentals (cont.)	Gall wasps Green striped mapleworm	Pine sawfly Pine spittlebug Pitch pine tip moth	Willow leaf beetles Yellow poplar weevil
	Ips engraver beetles Mountain pine beetle Roundheaded pine beetle Western pine beetle	20	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 20-30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs.

LAWNS AND RECREATIONAL AREAS

CROP	INSECT	SPECIFIC DIRECTIONS
Lawns and Rec- reational areas (including turf, golf courses and parks)	Ants Armyworm Bluegrass billbug Centipedes Chiggers Cutworms Earwigs Essex skipper European chafer Fall armyworm Fleas Grasshoppers	June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks Yellowstriped armyworm
	Chinch bugs White grubs	Use 1 1/2 quarts of this product in 150 to 200 gallons of spray per 5000 square feet.

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To prepare small amounts, use 1 tablespoon (1/2 fluid ounce) of SEVIN brand FL Carbaryl Insecticide per gallon of water.

SITE	QUARTS OF "SEVIN" BRAND FL 100 GALLONS OF WATER	SPECIFIC DIRECTIONS
Lawns, Cemeteries and Recreational Areas (including turf, golf courses, and parks) Pastures Rangeland Forested Lands and Wasteland	1 1/2	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 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.

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 FL Carbaryl Insecticide per gallon of water, where rates of 1 quart are indicated.

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	QUARTS OF "SEVIN" BRAND FL/100 GAL.	SPECIFIC DIRECTIONS
Pastures, Rangelands, Parks, Recreational Areas, Logging Camps, Military Posts and Adjacent Forested lands or Wastelands	1/4 to 1 (1/2 to 1 tablespoonful per gallon)	<p>ADULT MOSQUITOES</p> <p>CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. 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, 1/2 to 1 quart per acre in aerial sprays and 1 quart per acre in low pressure ground sprayers.</p> <hr/> <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.</p>

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INSECT	QUARTS OF "SEVIN" BRAND FL/100 GAL.	SPECIFIC DIRECTIONS
		<i>For external use around buildings only. Do not treat animals.</i>
Ants Cockroaches	20 (20 tablespoonsful/ gallons)	Apply as a coarse wet spray or with a paint brush to outdoor sleeping quarters of pets, outside perimeter of dwellings and other areas where insects tend to congregate.
Brown dog tick Earwigs Fleas Millipedes Silverfish Spiders	10 (10 tablespoonsful/ gallon)	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 ROOSTS AND BUILDINGS ONLY

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

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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

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If container is burned, stay out of smoke.

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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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.