



**COMPANY
NUMBER**

264

**PRODUCT
SERIAL NO.**

349

**LABEL
APPROVAL
DATE**

8-15-90

SEVIN[®] brand 4F Carbaryl Insecticide D

FOR AGRICULTURAL OR COMMERCIAL USE ONLY

AUG 15 1990

ACTIVE INGREDIENTS:

Carbaryl (1-naphthyl N-methylcarbamate).....

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 264-349 41.2% by Wt.

INERT INGREDIENTS:.....

58.8% by Wt.

(Contains 4 pounds Carbaryl per Gallon)

KEEP OUT OF REACH OF CHILDREN CAUTION CUIDADO

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

E.P.A Reg No. 264-349

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

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

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577

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.

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.

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 Rhône-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 except under 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. Do not contaminate water when disposing of equipment wash waters.

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 Rhône-Poulenc Ag Company representative for further information.

DIRECTIONS FOR USE

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

READ 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 4F 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 by ground or air and 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 4F Carbaryl Insecticide, date of application, appropriate clothing, and reentry 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 (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 is stated on the label. To do so may result in illegal residues in crops, meat, and milk. Do not apply at greater rates or at more frequent intervals than are stated on the label.

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 4F 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.

COMPATIBILITY

SEVIN® brand 4F 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 4F 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.

FORAGE, FIELD AND VEGETABLE CROPS

Apply in sufficient spray volume to obtain thorough coverage. Do not dilute greater than 1:39 (volume product: volume water) where washoff resistance is desired. Where maximum washoff resistance is needed, do not exceed a 1:1 dilution. To prepare small volumes of spray mixture use 1 tablespoonful (1/2 fluid ounce) of SEVIN® brand 4F Carbaryl insecticide per gallon of water where rates of 1 quart per acre or 1 quart per 100 gallons are indicated in the tables below.

GRASSHOPPERS

CROP	QUARTS OF "SEVIN"® BRAND 4F/ 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 quart for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditchbanks, and borders. Use 1 to 1 1/2 quarts for mature grasshoppers or applications to dense vegetation or if extended residual control is desired. Be certain spray volumes are appropriate to assure adequate coverage.

CROP	INSECT	QUARTS OF "SEVIN"® BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Alfalfa Clovers Birdsfoot trefoil (DO NOT USE ON BIRDSFOOT TREFOIL IN CALIFORNIA)	Blister beetles Mexican bean beetle	1/2 to 1	7 (Alfalfa) 0 (Clover & Birdsfoot trefoil)	OBSERVE BEE CAUTION Observe plant response precautions.	
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Potato leafhopper Three cornered alfalfa hopper Thrips Velvetbean caterpillar		1	Carbaryl may cause a temporary bleaching of tender alfalfa foliage. On dense growth use 25 to 40 gallons per acre with ground equipment to ensure adequate coverage.
	Grasshoppers	1/2 to 1 1/2		Refer to general GRASSHOPPER heading above.	
	Alfalfa blotch leafminer Armyworm Cloverhead weevil Corn earworm Egyptian alfalfa weevil larvae Essex skipper	European alfalfa beetle Fall armyworm Lygus bugs Stink bugs Webworms Yellowstriped armyworm		1 to 1 1/2	Apply only once per cutting.
	Alfalfa weevil larvae				For alfalfa weevil larvae, if pre-treatment 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			

CROP	INSECT		QUARTS OF "SEVIN" BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Asparagus	Asparagus 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	0 (except cowpeas) 3 (cowpeas)	Observe plant response precautions.
	Alfalfa caterpillar	Leafhoppers	1		
	Bean leaf beetles	Three cornered alfalfa hopper			
	Cucumber beetles	Thrips			
	Flea beetles	Velvetbean caterpillar			
	Green cloverworm	Western bean cutworm			
	Japanese beetle				
	Grasshoppers				
Amyworm	Fall armyworm	1 to 1 1/2		Refer to general GRASSHOPPER heading above.	
Corn earworm	Stink bugs				
Cutworms	Tarnished plant bug				
European corn borer	Webworms				
Alfalfa Looper		1 1/2	CALIFORNIA ONLY		
Cowpea curculio		2			
Corn earworm	Lygus bugs	2			
Limabean podborer	Stink bugs				
Cabbage Broccoli Brussels sprouts Cauliflower Kohlrabi	Flea beetles	Harlequin bug	1/2 to 1	3	
	Amyworm	Imported cabbageworm	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, rutabagas and turnip roots)	
	Aster leafhopper		1 to 1 1/2	14 (Chinese cabbage, 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)	Treat on a 5 to 7 day schedule.
	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	3 (parsnips)	
	Amyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	14 (celery & parsley)	

QUARTS OF PREHARVEST
SEVIN® BRAND 4F/ INTERVAL
(DAYS)

CROP	INSECT		ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Corn (field, sweet, pop)	Amyworm	Flea beetles	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.
	Chinch bugs	Japanese beetle			
	Corn earworm	Sap beetles			
	Corn rootworm adults	Southwestern corn borer			
	Fall armyworm	Leafhoppers			
	Grasshoppers		1/2 to 1 1/2		Refer to general GRASSHOPPER heading above
	European Corn borer		1 1/2 to 2		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.
	Western bean cutworm		2		
	Cutworms		2 to 3		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.
Cotton	Cotton fleahopper	Striped blister beetle	1/2 to 1	7	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.
	Cotton leafworm	Thrips			
	Flea beetles				
	Boll weevil	Tarnished plant bug	1 to 2		
	Cotton bollworm	Yellowstriped armyworm (cotton cutworm)			
Fall armyworm					
Leafrollers					
Leafhoppers					
	Lygus bugs		1 to 2		For light to moderate populations in Western irrigated cotton.
	Pink bollworm		1 1/2 to 2 1/2		
	Cutworms	Saltmarsh caterpillar	2		Aphid populations will be suppressed by repeated applications of this insecticide.
	Stink bugs				
Cucumber Melons Pumpkin Squash	Pickworm	Melworm	1/2 to 1	0	Observe plant response precautions.
	Cucumber beetles	Leafhoppers	1		
	Flea beetles	Squash bugs			
Dandelion Endive (Escarole) Lettuce Salsify	Flea beetles	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.
	Halequin bug				
		Aster leafhopper	Spittlebugs	1 to 1 1/2	14 (dandelion, endive (escarole), leaf lettuce & salsify tops)
	Lygus bugs				
	Armyworm	Imported cabbageworm	1 to 2		
	Corn earworm	Stink bugs			
	Fall armyworm	Tarnished plant bug			

**QUARTS OF PREHARVEST
"SEVIN" BRAND 4F/ INTERVAL
ACRE (DAYS)**

CROP	INSECT	QUARTS OF "SEVIN" BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Flax Proso Millet (DO NOT USE 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 Leafhoppers Harlequin bug	1/2 to 1	3 (garden beet roots)	
	Aster leafhopper	1 to 1 1/2	14	
	Armyworm Stink bugs Corn earworm Tarnished plant Fall armyworm bug	1 to 2	(garden beet tops, spinach, Swiss chard)	
Okra	Corn earworm Stink bugs	1 to 2	0	
Pasture	Armyworm Range cater- Black grass bugs piller Chinch bugs Range crane fly Essex skipper Striped grass Fall armyworm looper Thrips	1 to 1 1/2	0 (aerial 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	0	Observe plant response precautions.
	Alfalfa cater- pillar Rednecked Bean leaf beetle peanutworm Cucumber beetles Three cornered Green cloverworm alfalfa hopper Japanese beetle Thrips Leafhoppers Velvetbean caterpillar	1		
	Armyworm Stink bugs Corn earworm Webworms Fall armyworm	1 to 1 1/2		
	Whitefringed beetle adults Cutworms	2		
	Peas	Colorado potato beetle Leafhoppers		
Armyworm		1 to 1 1/2		
Alfalfa cater- pillar Pea weevil Cutworms Yellowstriped Pea leaf weevil armyworm		1 1/2		
Alfalfa looper		2 1/2		

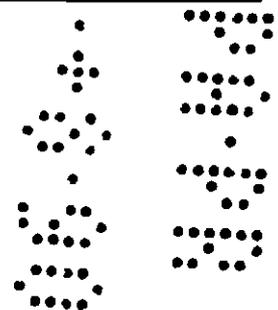
WASHINGTON STATE ONLY

QUARTS OF PREHARVEST
"SEVIN" BRAND 4F/ INTERVAL
ACRE (DAYS)

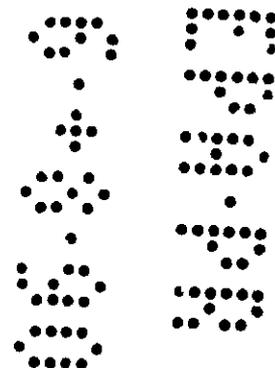
CROP	INSECT		QUARTS OF "SEVIN" BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Potato Tomato Eggplant Pepper	Colorado potato beetle Flea beetles Leafhoppers		1/2 to 1	0	Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and re-treat if reinfestation occurs.
	European corn borer Fall Armyworm Lace bugs Stink bugs (suppression)	Tarnished plant bug Tomato fruitworm Tomato hornworm Tomato pinworm	1 to 2		
	Cutworms		2		
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 Mormon cricket Range caterpillars Range crane fly		1/2 to 3/4	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.
	Grasshoppers		1/2 to 1 1/2		Refer to the general GRASSHOPPER heading above.
Rice	Armyworm Chinch bugs	Fall armyworm Stink bugs	1 to 1 1/2	14	MISSISSIPPI DELTA & TEXAS. 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.
	Grasshoppers		1/2 to 1 1/2		Refer to the general GRASSHOPPER heading above.
	Armyworm Leafhoppers	Tadpole shrimp	2		CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when post first appears.
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 if midge are abundant. For chinch bugs use high gallonage ground application directed at the base of plants. This product will not effectively control the Southern green stink bug. Refer to the general GRASSHOPPER heading above.
	Armyworm Chinch bugs Corn earworm	Fall armyworm Stink bugs Webworms	1 to 2		
	Southwestern corn borer		1 1/2		
	Cutworms		2		
	Grasshoppers		1/2 to 1 1/2		

QUARTS OF PREHARVEST
"SEVIN" BRAND 4F/ INTERVAL
ACRE (DAYS)

CROP	INSECT		QUARTS OF "SEVIN" BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Soybeans	Bean leaf beetle Blister beetle Cucumber beetles Grape colaspis Green cloverworm	Japanese beetle Mexican bean beetle Velvetbean caterpillar	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.
	Corn earworm		1/2 to 1 1/2		
	Grasshoppers		1/2 to 1 1/2		
	Alfalfa caterpillar Leafhoppers	Three cornered alfalfa hopper Thrips	1		
	Armyworm Cutworms	Fall armyworm Webworms	1 to 1 1/2		
	Painted lady (Thistle caterpillar) Saltmarsh caterpillar	Woollybear caterpillar Yellowstriped armyworm	1 1/2 to 2		
Sugar beets	Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 to 1 1/2	14	Refer to general GRASSHOPPER heading above.
	Grasshopper		1/2 to 1 1/2		
	Cutworms		1 1/2		
Sunflower (DO NOT USE IN CALIFORNIA)	Cutworms		1 1/2	60	Refer to general GRASSHOPPER heading above.
	Armyworm Fall armyworm Sunflower moth		1 1/2 to 2		
	Stem weevil	Sunflower beetle	1 to 2		
	Grasshopper		1/2 to 1 1/2		
Sweet Potato (DO NOT USE IN CALIFORNIA)	Corn earworm Cucumber beetles Flea beetles	Sweet potato hornworm Tortoise beetles	1 to 2	0	Apply as a foliar spray as needed.
	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.



CROP	INSECT	QUARTS OF "SEVIN" BRAND 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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.
	Green June beetle grubs	8		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.
Field Treatment	Budworms Fall armyworm Flea beetle Hornworms	Japanese beetle June beetle Suckfly	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.
Wasteland, Rights-of-Way Hedgerows, Ditchbanks, Roadsides	Black grass bug Mormon cricket Range caterpillars Range crane fly	1/2 to 1	0 (aerial applications) 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 days of 1st 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	1/2 to 1 1/2		Refer to the general GRASSHOPPER heading above.
Wheat (including triticale) (DO NOT USE IN CALIFORNIA)	Flea beetles	1/2 to 1	0 (forage) 21 (grain)	
	Grasshoppers	1/2 to 1 1/2		Refer to the general GRASSHOPPER heading above.
	Cereal leaf beetle	1		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 4F 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 4F/ 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>

CROP	INSECT	QUARTS OF "SEVIN"® BRAND 4F/ 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Fruittree leafroller Peach twig borer San Jose scale	1	28	<p>OBSERVE BEE CAUTION For peach twig borer, apply in "pop-corn" or petal fall stages when the May brood begins to hatch or thereafter as needed.</p> <p>For dormant or delayed dormant timing, apply in combination with a recommended dormant oil.*</p>
	Navel orangeworm			<p>Time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of hull split up to 10% hull split.</p>

* Refer to the dormant oil label for additional use directions and limitations. restrictions.

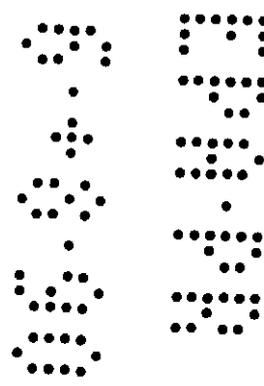
CROP	INSECT		QUARTS OF "SEVIN" BRAND 4F/ 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apples Pears	Apple aphid Apple maggot Apple rust mite Apple sucker Bagworms California pearslug (pear sawfly) Eastern tent caterpillar European apple sawfly Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Gypsy moth Japanese beetle Lecanium scales Lesser appleworm	Lygus bugs Orange tortrix Oystershell scale Pearleaf blister mite Pear psylla Pear rust mite Periodical cicada Plum curculio Redbanded leafroller Rosy apple aphid San Jose scale Tarnished plant bug Tentiform leaf-miners Woolly apple aphid Yellowheaded fireworm	3/4 to 1	1	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.
	Apple mealybug Apple aphid Codling moth	White apple leafhopper	1/2		
Chestnuts (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.
Citrus Fruits (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats and hybrids)	Avocado leafroller California orangedog Citrus cutworm Citrus root weevil Fruittree leafroller	Orange tortrix Western tussock moth West Indian sugarcane borer (adults)	1	5	OBSERVE BEE CAUTION To insure thorough coverage, do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.
	Black scale Brown soft scale California red scale	Citricola scale Citrus snow scale Yellow scale	3/4 to 1		
Filbert	Filbert aphid Filbert leafroller Filbertworm		1	0	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later. Apply dilute sprays at 300-400 gallons per acre.
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.

CROP	INSECT		QUARTS OF "SEVIN" BRAND 4F/ 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Peaches Apricots Nectarines	Apple pandemis Codling moth European earwig Fruitree leafroller Gypsy moth Japanese beetle June beetle Lecanium scales Lesser peachtree borer Olive scale	Orange tortrix Oriental fruit moth Peach twig borer Periodical cicada Plum curculio Redbanded leaf-roller San Jose scale Tarnished plant bug Tussock moths Variegated leafroller	1	1 (peaches) 3 (apricots & nectarines)	For optimum scale control apply when crawlers are present. Spray limbs and trunk thoroughly at weekly intervals during moth flight.
Pecans	Black margined aphid Fall webworm Hickory shuck-worm Lesser webworm Pecan leaf phylloxera	Pecan stem 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	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 Fruitree 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 control spray limbs and tree trunks thoroughly at weekly intervals during moth flight.
Walnut	Calico scale European fruit lecanium	Filbertworm Fruitree leafroller Frosted scale	1/2	0	
	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 to late June as needed.
	Navel Orangeworm		1		For navel orangeworm, time application to coincide with peak egg-laying activity at time of or following hull split.
	European earwig		2		Spray tree trunks to point of run-off.

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 4F/ ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (including boysenberries and loganberries)	European raspberry aphid	Leafrollers	1 to 2	7	
	Japanese beetle	Rose chafer			
	Leafhoppers	Snowy tree cricket			
	Omnivorous leafroller		2		CALIFORNIA ONLY
	Raspberry sawfly				
Blueberries	Blueberry maggot	European fruit lecanium	1 1/2 to 2	0	Apply 3 weeks before harvest and repeat as necessary.
	Cherry fruitworm	Japanese beetle			
	Cranberry fruitworm				
Cranberries	Cutworms	Elm spanworm	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.
	Cranberry fireworms	Japanese beetle			
	Cranberry fruitworms	Leafhoppers			
	Cranberry twig girdler	Rose chafer			
		Spaganothus worm			
Grapes	European fruit lecanium	Western grapeleaf skeletonizer	1 to 2	7	Apply before first brood leaf folder larvae emerge from rolls.
	Grape leaf folder	Western yellow-striped armyworm			
	Grape leafhopper				
	Cutworms	Orange tortrix	2		
	Eight-spotted forester	Omnivorous leafroller			
	Grape berry moth	Redbanded leafroller			
	Japanese beetles	Saltmarsh caterpillar			
	June beetles				
Strawberries	Flea beetles	Strawberry bud weevil	1 to 2	1	Carbaryl may injure Early Dawn and Sunrise varieties.
	Meadow spittlebug (strawberry fruitworm)	Strawberry leafroller			
	Omnivorous leaf tier	Strawberry weevil			
		Strawberry clipper			



TREES AND ORNAMENTALS

For control of certain insects on trees, ornamentals, woody plants and shrubs, apply the recommended amount of SEVIN® brand 4F 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 pine.

INSECT		QUARTS OF "SEVIN" [®] BRAND 4F/ 100 GAL	SPECIFIC DIRECTIONS
Ants	Hackberry	Pitch pine tip	Observe plant response precautions.
Apple aphid	nippiegall	moth	
Amyworm	maker	weevil	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	Holly bud moth	Plant bugs	
Bagworms	Holly leafminer	Poinsettia horn-worm	
Birch leafminer	Jackpine bud-worm	Psyllids	
Blister beetle	Japanese beetle	Puss caterpillar	
Boxelder bug	Jeffrey pine	Redhumped	
Boxwood leaf-miner	needleminer	oakworm	
Brown tail moth	June beetles	Rose aphid	
Cankerworms	Lace bugs	Rose chafer	
Catalpa sphinx	Leafhoppers	Roseslug	
Chiggers	Leafrollers	Saddled prominent	Applications for control of maple leaf-cutter on sugar maple should be made when larvae are in 2nd instar after mining and as cases are being formed.
Cutworms	Locust borer	Sawflies	
Cypress tip moth	Maple leafcutter	(exposed)	DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.
Eastern spruce	Mealybugs	Scale insects	
gall adelgid	Mimosa webworm	Sowbugs	
Elm leaf aphid	Nantucket pine	Spiney elm	
Elm leaf beetle	tip moth	caterpillar	
Elm spanworm	Oak leafminers	Springtails	
Eriophyid mites	Oak leaf	Spruce needle-miner	
European pine	skeletonizer	Subtropical pine	
shoot moth	Oak moth	tip moth	
Fall armyworm	Oakworm complex	Tent caterpillars	
Flea beetles	Oleander caterpillar	Thrips (exposed)	
Fuchsia gall mite	Olive ash borer	Ticks	
Fuller rose	Orangestriped	Tree hoppers	
beetle	oakworm	Walnut caterpillar	
Gall midges	Orange tortrix	Webworms	
Gall wasps	Periodical	Western hemlock	
Greenstriped	cicaga	looper	
mapleworm	Pine looper	Willow leaf beetles	
Grasshoppers	Pine sawfly	Yellow poplar weevil	
Gypsy moth	Pine spittlebug		
Balsam twig	Spruce budworm		Use the higher rate when large larvae or heavy populations are present.
aphid	Western spruce		
Cooley spruce	budworm	1 to 2	
gall adelgid			
Douglas-fir			
tussock moth			
Ips engraver beetles		16	Effective for beetle control or as a protective treatment
Mountain pine beetle			
Roundheaded pine beetle			Apply 1 gallon of spray per 50 square feet of bark prior to beetle flight or post-tree attack. Treat tree trunks from ground level up, until trunk diameter is less than 5 inches. Repeat treatments as needed.
Spruce beetle			
Western pine beetle			
Elm Bark Beetle			

LAWNS AND RECREATIONAL AREAS

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.

SITE	INSECT	AMOUNT OF SEVIN® BRAND 4E		SPECIFIC DIRECTIONS
		FL. OZ./ 1000 SQ. FT.	QUARTS/ ACRE	
Turf grasses	Ants	1 1/2 to 3	2 to 4	<p>For Armyworm, Cutworm and Fall Armyworm Control: Do not irrigate treated areas following insecticide application.</p> <p>For Green June Beetle Grub Control: Make applications when grubs are feeding near the soil surface. Water or irrigate turf grasses soon after treatment.</p>
	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				
Chinch bugs	4.4 to 6	6 to 8	<p>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.</p> <p>For Sod Webworm Control: Do not irrigate treated areas following insecticide application.</p>	
Sod Webworm (lawn moths)				
Bluegrass billbug	6	8	<p>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.</p>	
European crane fly flies				
White grubs (such as Japanese beetle, Chafer beetle and <i>Phyllophaga</i> spp. larvae)	6	8	<p>For White Grub Control: Applications should be made when grubs are feeding near the soil surface, usually during late March through May, or July to early September, or as recommended by local Agricultural Extension Service agents. Water or irrigate turf grasses thoroughly soon after treatment.</p>	

IMPORTED FIRE ANT CONTROL

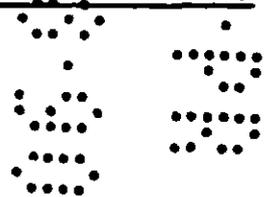
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SITE	AMOUNT OF SEVIN® BRAND 4F VOLUME OF WATER	SPECIFIC DIRECTIONS
Lawns, Cemeteries and Recreational Areas (including turf, golf courses and parks) Pastures, Rangeland, Forested Lands, and Wasteland	1 1/2 quarts/ 100 gallons or 1 1/2 tablespoons/ 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° 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 OR 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.

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 4F Carbaryl Insecticide per gallon of water, where rates of 1 quart are indicated.

SITE	QUARTS OF SEVIN® BRAND 4F/ 100 GAL.	SPECIFIC DIRECTIONS
Pastures, Rangeland, Parks, Recreational Areas, Logging Camps, Military Posts and Adjacent Forested lands or Wastelands	1/4 to 1 (1/2 to 1 tablespoonful per gallon)	DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED. CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. OBSERVE BEE CAUTION 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. 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 sprays.
	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 4F/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.

DIRECTION FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

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

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

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

NOTE: When treatment with SEVIN® brand 4F has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

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

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

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back to ward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to

automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

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

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

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

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

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 4F 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 wallpapers and fabrics.

Do not use this product in commercial food areas or food handling establishments, restaurants or other places where food is prepared or processed. Do not use in serving areas while food is exposed.

INDOORS

ANTS/CRICKETS/FIREBRATS/SILVERFISH: Mix 3 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. For ants, apply to ant trails, around doors and windows and other places where ants enter premises.

BEES and WASPS: Mix 3 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 oz. this product per gallon of water and thoroughly spray infested areas such as nearby cracks and crevices, between and under cushions of upholstered furniture, along and behind baseboards, window and door frames and other areas where these pests may be present.

CARPENTER ANTS: Mix 3 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 oz. SEVIN® brand 4F 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 3 oz. this product per gallon of water and apply as a fine, low pressure (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.

SPIDERS: Mix 3 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 16 oz. this product per 50 gallons 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.

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.

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

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.**

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

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

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SEVIN® brand 4F Carbaryl Insecticide (MASTER) Approved 1/25/90.

