



**CARBARYL INSECTICIDE  
(Contains 4 Pounds Carbaryl Per Gallon)**

**FOR AGRICULTURAL OR COMMERCIAL USE ONLY**

Active Ingredient:  
Carbaryl (1 naphthyl methylcarbamate) ..... 40.38% by wt.  
Inert Ingredients ..... 59.62% by wt.  
TOTAL 100%

E.P.A. Reg. No. 264-345

E.P.A. Est. No. 10352-GA-01 (W)

E.P.A. Est. No. 264-MO-02 (L)

REFER TO FIRST LETTER OF LOT NO. FOR PRODUCING LOCATION

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**READ DIRECTIONS FOR USE AND PRECAUTIONARY  
STATEMENTS IN BOOK ON PAGE 2**

**IN CASE OF EMERGENCY  
PHONE COLLECT (24 HOURS A DAY)  
IN U.S.A. (304) 744-3487**

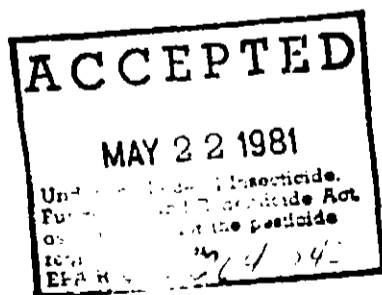


UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY INC  
7825 Baymeadows Way, Jacksonville, Florida 32216

SEVIN is the registered trademark of Union Carbide Corporation for carbaryl insecticide.  
UCC 3300531

Made in U.S.A.

DETACH BOOKLET FROM LAST PAGE



Proposed Label  
April 1981  
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FRONT PANEL

NET CONTENTS \_\_\_\_\_ GALLONS

UNION CARBIDE SEVIN® FR CARBARYL INSECTICIDE  
(Contains 4 Pounds Carbaryl Per Gallon)

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Inert Ingredients: ..... 59.62% by wt.

TOTAL 100%

EPA Registration No. 264-

EPA Est. No. \_\_\_\_\_

CAUTION: KEEP OUT OF REACH OF CHILDREN. HARMFUL IF INHALED OR SWALLOWED. Avoid Breathing of Spray. Do Not Take Internally. Avoid Contact with Skin and Eyes. Wear regular long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling.

NOTE FOR PHYSICIAN: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal. Do Not Use 2-PAM, opiates or cholinesterase inhibiting drugs.

ENVIRONMENTAL HAZARDS:

Avoid direct application to lakes, streams and ponds. Do not apply when weather conditions favor drift from area treated. Do not contaminate water, food, or feed 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 or Residues on Crops. Protective Information May be Obtained from your Cooperative Agricultural Extension Service. Do Not Use When Value of Bees as Pollinators is More Important than Insect Control. Before Applying, Warn Beekeepers to Locate Hives Beyond Bee Flight Range Until 1 Week After Application or to Take Other Equally Effective Precautions.

WARRANTY

1. The manufacturer guarantees and warrants (a) that the active ingredient content and the total net weight are as stated within lawful limits and (b) 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.
2. The manufacturer further warrants that the material herein is reasonably fit for use under normal conditions as directed hereon. The manufacturer neither makes nor authorizes any agent or representative to make any other warranties of FITNESS OR MERCHANTABILITY, guarantee or representation, express or implied, concerning this material. This product is sold only on the basis that buyer assumes all risks of use of handling which result in loss or damage and which are beyond manufacturer's control. No claim of any kind, and whether or not based on negligence, shall be greater in amount than the purchase price of the material in respect of which such claim is made. In no event shall manufacturer or seller be liable for special, indirect or consequential damages resulting from the use or handling of this material.
3. No modification of this warranty and disclaimer is authorized except by specific reference to them in writing by an employee of the manufacturer.

UNION CARBIDE CORPORATION  
Agricultural Products Division  
7825 Baymeadows Way  
Jacksonville, Florida 32216

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DIRECTIONS FOR USE

Spray Preparation TO ASSURE A UNIFORM PRODUCT, AGITATE, STIR OR RECIRCULATE ALL SEVIN FR CONTAINERS 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 FR, 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 MIXTURES FOR PROLONGED PERIODS.

Compatibility: SEVIN FR, 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 FR 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. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD SEVIN FR 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.

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 FR diluted 1:1 with water is similar to water.

Use 50 mesh slotted strainers in spray system and behind nozzles.

To clean spray system after use, drain and flush with water.

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Storage and Disposal: Store unused SEVIN FR 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.

Do not contaminate water, food or feed by storage or disposal.

Unused pesticide spray mixture or rinse should be disposed of in landfill approved for pesticides or buried in a safe place away from water supplies. Open dumping is prohibited.

Decontaminate empty bulk tanks and drums with water rinses. Do not reuse empty plastic drums or drum liners. Recondition metal drums before reuse. Destroy, by burying in approved landfill or other safe place.

Consult Federal, State or local disposal authorities for approved alternative procedures.

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## INSECT CONTROL

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

SEVIN FR does not control spider mites but is compatible with most commonly used miticides

## FORAGE, FIELD AND VEGETABLE CROPS

Use at least 1 gallon of finished spray per acre for aerial application and at least 3 gallons of finished spray per acre for concentrate ground application. To prepare small volumes of spray, use 1 tablespoonful (1/2 fluid ounce) of SEVIN FR per 6 quarts of water where rates of 1 quart per acre or 1 quart per 100 gallons are indicated in the tables below.

CROP	INSECT	QUARTS OF SEVIN FR/	PRE-HARVEST 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 quart for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditch banks and borders. Use 1 to 1 1/2 quarts for adult grasshoppers or applications to dense vegetation.
Alfalfa Clovers	Blister beetles Mexican bean beetle	1/2 to 1		Observe plant response precautions
	Alfalfa caterpillar	0		
	Bean leaf beetle			
	Cucumber beetles			
	Green cloverworm	1		
	Japanese beetle			
	Leafhoppers			
	Three cornered alfalfa hopper			
	Thrips			
	Velvetbean caterpillar			
	Alfalfa weevil larvae			
	Armyworm			
	Cloverhead weevil	1 to 1 1/2		
	Corn earworm			
	Cutworms			
	Egyptian alfalfa weevil larvae			
	Essex skipper			
	European alfalfa beetle			
	Fall armyworm			
	Lygus bugs			
	Stink bugs			
	Webworms			
	Yellowstriped armyworm			
				For alfalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble. Use higher rate in areas east of the Rocky Mountains. On dense growth use 25 to 40 gallons per acre with ground equipment to ensure adequate coverage.

CROP	INSECT	QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DA)	SPECIFIC DIRECTIONS
Asparagus	Asparagus beetle	1 to 2	1	
	Apache cicada Asparagus beetle	2 to 4	Post harvest application only	Treat ferns or brush growth. Do not treat more than once every 3 days
Beans  (including black-eyed 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 Bean leaf beetle Cucumber beetles Flea beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar Western bean cutworm	1	0
	Armyworm Corn earworm Cutworms European corn borer	Fall armyworm Stink bugs Tarnished plant bug Webworms	1 to 1-1/2	
	Cowpea curculio	2		
	Corn earworm Limabean pod borer	Lygus bugs Stink bugs	2	CALIFORNIA ONLY
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	
Chinese cabbage Collards Hanover salad Horseradish Kale Mustard greens Radishes Rutabagas Turnips	Flea beetles Harlequin bug   Aster leafhopper	Leafhoppers	1/2 to 1   1 to 1 1/2	3 (horseradish, radishes, rutabagas and turnip roots)  14 (Chinese cabbage collards, Hanover salad, kale, mustard greens, and turnip tops)

CROP	INSECT	QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTION	
C P. ps	Flea beetles	Leafhoppers	1/2 to 1	0 (carrots)	
	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	3 (parsnips)	Treat on a 5 to 7 da. schedule
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	14 (parsley)	
Corn (field, sweet, pop)	Armyworm Corn earworm Corn rootworm adults European corn borer Fall armyworm Flea 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
	Western bean cutworm		2	0	Treat when infestation averages 15% and at 50 to 100% tassel emergence. Treatment after 100% emergence will reduce effectiveness
	Cutworms		2 to 6 1/2	0	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 broad- cast application use 6.5 quarts in at least 20 gallons (ground) or 5 gal- lons (air) of water per acre
Cotton	Cotton fleahopper Cotton leafworm Flea beetles	Striped blister beetle Thrips	1/2 to 1	0	Early season insect control
	Boll weevil Bollworms Cotton leafper- forator Fall armyworm Leafrollers	Leafhoppers Tarnished plant bug Yellowstriped armyworm (cotton cutworm)	1 to 2	0	Treat on a 5 to 7 da. schedule for as long as control is necessary. Mid and late season insect control May be applied after s open
	Lygus bugs		1 to 2	0	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	0	

CROP	INSECT		QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cucumber Melon Pumpkin Squash	Pickleworm	Melonworm	1/2 to 1		Observe plant response precautions
	Cucumber beetles Flea beetles	Leafhoppers Squash bugs	1	0	Avoid excessive applications
Dandelion Endive (Escarole) Lettuce Salsify	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (head lettuce & salsify roots)	Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.
	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	14 (dandelion, endive(escarole) leaf lettuce & salsify tops)	
	Armyworm Corn earworm Fall armyworm	Imported cabbage worm Stink bugs Tarnished plant bug	1 to 2		
Forage Grasses Pasture	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	
Garden beet 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		
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	14 (garden beet tops, spinach, Swiss chard)	
Oats	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 caterpillar Bear leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Red-necked peanut-worm Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	0	
	Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 to 1 1/2		
	Whitefringed beetle adults Cutworms		2		

CROP	INSECT		QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
P	Colorado potato beetle		1	0	
	Leafhoppers				
	Armyworm		1 to 1½		
	Alfalfa caterpillar	Pea weevil	1½		
Cutworms	Yellowstriped armyworm				
	Pea leaf weevil				
	Alfalfa looper	2½	0	WASHINGTON STATE ONLY	
Potato Tomato Eggplant Pepper	Colorado potato beetle		½ to 1	0	
	Flea beetles				
	Leafhoppers				
	European corn borer	Tarnished plant bug	1 to 2		
Fall armyworm	Tomato fruit worm				
Lace bugs	Tomato hornworm				
Stink bugs	Tomato pinworm				
	Cutworms	2			
Rice	Armyworm	Fall armyworm	1 to 1½	14	DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER SEVIN FR APPLICATION OR PLANT INJURY WILL RESULT  MISSISSIPPI DELTA & TEXAS
	Chinch bugs	Stink bugs			
	Armyworm	Tadpole shrimp	2	14	CALIFORNIA ONLY For optimum tadpole shrimp control apply to water when pest first appears
Sorghums (milo, grain sorghum, sweet sorghum and hybrids)	Armyworm	Fall armyworm	1 to 2	21 (grain)	Direct spray into forming heads for optimum insect control.
	Chinch bugs	Stink bugs			
	Corn earworm	Webworms			
	Sorghum midge		1½	0 (forage)	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.
	Southwestern corn borer				



CROP	INSECT		QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
beans	Bean leaf beetle	Mexican bean beetle	1/2	0	DO NOT APPLY A COMBINATION OF SEVIN FR AND 2,4-DE HERBICIDES TO SOYBEANS. For light to moderate populations
	Cucumber beetles	Velvetbean caterpillar			
	Green cloverworm				
	Corn earworm		1/2 to 3/4		
	Blister beetles	Mexican bean beetle	1/2 to 1		To control heavy infestations, use higher rate
	Alfalfa caterpillar	Three cornered alfalfa hopper	1	0	
	Bean leaf beetle	Thrips			
	Cucumber beetles	Velvetbean caterpillar			
	Green cloverworm				
	Japanese beetle				
	Leafhoppers				
	Armyworm	Fall armyworm	1 to 1 1/2		
	Corn earworm	Stink bugs			
	Cutworms	Webworms			
	Grape colaspis	Saltmarsh caterpillar	2 to 2 1/2		
	Painted lady (Thistle caterpillar)	Yellowstriped armyworm			
Sugar beets	Armyworm	Flea beetles	1 to 1 1/2	14	
	Beet leaf beetle	Leafhoppers			
	Fall armyworm	Webworms			
	Cutworms		1 1/2		
Tobacco	Tobacco flea beetle		2 lbs/gal or 1 qt/50 gal or 6 gal/100 s 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	Japanese beetle	1 to 2		
Fall armyworm	June beetle				
Flea beetles	Suckfly				
	Hornworms				

TREE FRUIT AND NUT CROPS

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays increase the concentration of SEVIN FR 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 200-3000 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-20 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	QUARTS OF SEVIN FR/100 GAL	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
<b>APPLE THINNING</b>			
			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 SEVIN FR, exercise caution to avoid possible yield reduction.
Apples only	1/4 to 1/2	1	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.

CROP	INSECT	QUARTS OF SEVIN FR. 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	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.

CROP	INSECT	QUARTS OF SEVIN FR. 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
As S				To avoid undesired apple thinning, delay use until at least 30 days after full bloom
	Apple aphid Apple rust mite Apple sucker Bagworms California pearslug (pear sawfly) Codling moth Eyespotted bud moth Green fruitworm Lecanium scales Lesser appleworm	Lygus bugs Orange tortrix Oystershell scale Pear leaf blister mite Pear psylla Pear rust mite San Jose scale Tentiform leafminers Woolly apple aphid	3/4 to 1	1  WEST OF THE ROCKY MOUNTAINS  For psylla control apply when eggs hatch or young nymphs are present
	Apple mealybug Apple aphid Codling moth	White apple leafhopper	1/2	EAST OF THE ROCKY MOUNTAINS
	Apple maggot Apple rust mite Bagworms Eastern tent caterpillar European apple sawfly Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Japanese beetle Lecanium scales Lesser appleworm Oystershell scale	Pear psylla Pear leaf blister mite Pear rust mite Periodical cicada Plum curculio Red-banded leafroller Rosy apple aphid San Jose scale Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowheaded fireworm	1	1  For optimum scale control apply when crawlers are present
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  Do not apply more than 20 quarts of SEVIN FR per acre per application  Do not apply less than 10 gallons of dilute spr. 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

CROP	INSECT	QUARTS OF SEVIN FR/ 100 GAL	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
	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 SEVIN FR per acre per application.	
Peaches Apricots Nectarines	Apple pandemis Codling moth Cucumber beetles European earwig Fruittree leafroller Japanese beetle June beetles 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  3  3  3  3  3  3	0  1  3  (apricots & nectarines)	Do not apply more than 6 quarts of SEVIN FR per acre per application to apricots.  For optimum scale control apply when crawlers are present.  Spray limbs and trunk thoroughly, weekly during moth flight.
Pecans	Black margined aphid Fall webworm Hickory shuckworm Lesser webworm Pecan leaf phylloxera	Pecan nut casebearer Pecan spittlebug Pecan weevil Twig girdler Walnut caterpillar	1 to 2 1/2	0	Do not apply more than 7 1/2 quarts of SEVIN FR per acre per application.
Prunes Cherries	Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot European earwig Eye-spotted 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  1  1  1  1  1	1  1  1  1  1  1  1	Do not apply more than 6 quarts of SEVIN FR 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		
Walnut	Calico scale European fruit lecanium	Filbertworm Fruittree leafroller Frosted scale	1/2		Apply 5 quarts of SEVIN FR spray per acre for mature trees.
	Codling moth		1/2	0	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

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

CROP	INSECT		QUARTS OF SEVIN FR/A	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTION
Blackberries Raspberries Dewberries (including boysenberries and loganberries)	European raspberry aphid Japanese beetle	Leafhoppers Leafrollers Rose chafer Snowy tree cricket	1 to 2	7	
	Omnivorous leafroller Raspberry sawfly		2		California only
Blueberries	Blueberry maggot Cherry fruitworm Cranberry fruitworm	European fruit lecanium Japanese beetle	1 1/2	0	Apply 3 weeks before harvest and repeat as necessary
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworm	Japanese beetle Leafhoppers Rose chafer	1 1/2 to 3	1	Apply in late bloom and as needed at 7 to 10 day intervals
Grapes	Eight spotted forester European fruit lecanium Grape leafroller Grape leafhopper	Western grapeleaf skeletonizer Western yellow- striped armyworm	1 to 2	0	Apply before first brood leafroller larvae emerge from rolls
	Cutworms Grape berry moth Japanese beetle June beetles	Orange tortrix Omnivorous leafroller Redbanded leafroller Saltmarsh cater- pillar	2		
Strawberries	Flea beetles Meadow spittlebug Omnivorous leaftier (strawberry fruitworm)	Strawberry leafroller Strawberry weevil	1 to 2	1	SEVIN may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula

## TREES AND ORNAMENTALS

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays, increase the concentration of SEVIN FR in the spray mixture to apply an amount of SEVIN FR equivalent to that in a dilute spray. To prepare small volumes of spray, use 1 tablespoonful (1/2 fluid ounce) of SEVIN FR per gallon of water. The rates of 1 quart per acre or 1 quart per 100 gallons are indicated.

CROP	INSECT	QUARTS OF SEVIN FR /100 GAL	SPECIFIC DIRECTIONS	
Trees (including shade trees, shelter belts, forest, plantations, parks and recreational areas)	Ants Apple aphid Armyworm Azalea leafminer Bagworms Birch leafminer Blister beetle Boxelder bug Boxwood leafminer Browntail moth Cankerworms Catalpa sphinx Chiggers Cooley spruce gall aphid Cutworms Cypress tip moth Douglas fir tussock moth Eastern spruce gall aphid Elm leaf aphid Elm leaf beetle Elm spanworm Eriophyid mites European pine shoot moth Fall armyworm Flea beetles Fuller rose beetle Gall midges Gall wasps Green striped mapleworm	Grasshoppers Gypsy moth Hackberry nippegall maker Holly bud moth Holly leafminer Jackpine budworm Japanese beetle Jeffrey pine needleminer June beetles Lace bugs Leafhoppers Leafrollers Locust borer Mealy bugs Mimosa webworm Nantucket pine tip moth Oak leafminers Oak leaf skeletonizer Oakworm complex Oleander caterpillar Olive ash borer Orange striped oakworm Orange tortrix Periodical cicada Pine sawfly Pine spittlebug Pitch pine tip moth	Plant bugs Poinsettia hornworm Psyllids Puss caterpillar Redhumped oakworm Rose aphid Rose chafer Roseslug Saddled prominent Sawflies (exposed) Scale insects Sowbugs Spiny elm caterpillar Springtails Spruce budworm Spruce needleminer Subtropical pine tip moth Tent caterpillars Thorn bug Thrips (exposed) Ticks Walnut caterpillar Webworms Western hemlock looper Western spruce budworm Willow leaf beetles Yellow poplar weevil	Observe plant response precautions.  Apply dilute sprays to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat trunks, stems and twigs in addition to plant foliage. For optimum worm control, treat when in early instars.
Ornamentals (including roses, flowers and other herbaceous plants)				
Woody Plants				
Shrubs				
	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.	

## LAWNS AND RECREATIONAL AREAS

CROP	INSECT	SPECIFIC DIRECTIONS
Lawns and Recreational Areas (including turf, golf courses and parks)	Ants Armyworm Bluegrass billbug Centipedes Chiggers Cutworms Earwigs Essex skipper European chafer Fall armyworm Fiery skipper Fleas Grasshoppers	June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks Yellowstriped armyworm
		Use 1 quart of SEVIN FR in 150 to 200 gallons of spray mixture per 5000 square feet of established lawn, recreational area, roadway or path border. For best results, mow lawn and apply after watering or rain. Insure good penetration of turf. Garden hose or pressure applicators may be used. Repeat 2 to 3 weeks later if necessary.
	Chinch bugs White grubs	Use 1½ quarts of SEVIN FR in 150 to 200 gallons of spray per 5000 square feet.



# Sevin<sup>™</sup>

## FR

**CARBARYL INSECTICIDE**  
(Contains 4 Pounds Carbaryl Per Gallon)

**FOR AGRICULTURAL OR COMMERCIAL USE ONLY**

Active Ingredient: Carbaryl (1 naphthyl methylcarbamate) ..... 40.38% by wt.  
Inert Ingredients ..... 59.62% by wt.

TOTAL 100%

E.P.A. Reg. No. 264-345

E.P.A. Est. No. 10352-GA-01 (W)  
E.P.A. Est. No. 264-MO-02 (L)

REFER TO FIRST LETTER OF LOT NO. FOR PRODUCING LOCATION  
**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

READ DIRECTIONS FOR USE AND PRECAUTIONARY  
STATEMENTS IN BOOK ON PAGE 2

**IN CASE OF EMERGENCY**  
**PHONE COLLECT (24 HOURS A DAY)**  
**IN U.S.A. (304) 744-3487**

 **UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.**  
7825 Baymeadows Way, Jacksonville, Florida 32216

SEVIN<sup>™</sup> is the registered trademark of Union Carbide Corporation for carbaryl insecticide.  
UCC 3330571

Made in U.S.A.

DETACH BOOKLET FROM LAST PAGE

**ACCEPTED**  
MAY 22 1981  
Union Carbide Insecticide  
Fungicide Acol  
as per the pesticide  
EPA # 264-345

MAY 1981