

CROP	INSECT	QUARTS OF "SEVIN" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Wheat	Cereal leaf beetle	1	21 (0/acre)	NOT FOR USE IN CALIFORNIA Application is against eggs, larvae and adults
	Armyworm Fall armyworm	1 to 1½		

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 4F in the spray mixture to apply an amount per acre equivalent to that in a dilute spray. The optimum spray gallonage will depend on tree size, density and stage of growth. Typical spray gallonages per acre range from 200-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	QUARTS OF SEVIN 4F/100 GAL.	PRE-HARVEST 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 SEVIN 4F, exercise caution to avoid possible yield reduction.
Apples only	½ to ¾	1	For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Purdon, Red Delicious, Winesap, Yellow Newtown.
	¾ 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, Turkey, Wealthy, Yellow Transparent and York Imperial.

CROP	INSECT	QUARTS OF "SEVIN" 4F/100 gals.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach twig borer San Jose Scale Fruitree leaf roller Navel orangeworm	1	20	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. 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 pear slug (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	1/2 to 1	1	WEST OF THE ROCKY MOUNTAINS To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For psylla control apply when eggs hatch or young nymphs are present.
	Apple mealybug Apple aphid Codling moth	1/2		EAST OF THE ROCKY MOUNTAINS
	Apple maggot Apple rust mite Bagworms Eastern tent caterpillar European apple sawfly Eyespotted bud moth Forbes scale Fruitree leaf-roller 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	1	1	To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control apply when crawlers are present.

CROP	INSECT	QUARTS OF "SEVIN" 4F/100 gals	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apples Pears (cont.)	Furnished plant bug Tentiform leaf- miners Woolly apple aphid Yellowheaded borerworm		1	To avoid undesired apple thin- ning, delay use until at least 30 days after full bloom. For optimum scale control apply when crawlers are present.
Chestnuts	Chestnut weevil	2 to 3	0	NOT FOR USE IN CALIFORNIA. Make 4 applications at weekly intervals beginning in late July for adult chestnut weevil con- trol. Last application should be made prior to shuck split.
Pistaches	Naval orange worm	1 to 2	14	Apply dilute volumes of 150 to 300 gallons of mixed spray per acre for full coverage of orch. of hull split.

SMALL FRUIT CROPS

Recommended dosages refer to quarts of SEVIN 4F per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallon-
ages per acre range from 100-300 gallons for dilute sprays, 30-100 gallons for concen-
trate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per
acre per application.

CROP	INSECT	QUARTS OF "SEVIN" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Black- berries Rasp- berries Dew- berries (including boysen- berries and logan- berries)	European rasp- berry aphid Japanese beetle Rose chafers Sawfly tree caterpillar	1 to 2	7	
	Omnivorous leafroller Raspberry sawfly	2		CALIFORNIA ONLY

CROP	INSECT		QUARTS OF "SEVIN" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blueberries	Blueberry maggot Cherry fruit-worm Cranberry fruit-worm	European fruit lecanium Japanese beetle	1%	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworm	Japanese beetle Leafhoppers Rose chafers	1% to 3	1	Apply in late bloom and as needed at 7 to 10 day intervals. Caution: May kill shrimp and crabs. Do not use in areas where these are important resources.
Grapes	European fruit lecanium Grape leaf-foller Grape leaf-hopper	Western grapeleaf skeletonizer Western yellow-striped army-worm	1 to 2	0	Apply before first brood leaf-holder larvae emerge from rolls.
	Cutworms Eight spotted forerster Grape berry moth Japanese beetle June beetles	Orange tortrix Omnivorous leaf-roller Redbanded leafroller Saltmarsh caterpillar	2		
Strawberries	Flea beetles Meadow spittlebug Omnivorous leaf-roller (strawberry fruitworm)	Strawberry leaf-roller Strawberry weevil	1 to 2	1	SEVIN may injury Early Dawn and Sunrise varieties on the Delmarva Peninsula.

CROP	INSECT	QUARTS OF "SEVIN" 4F/100 gals.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Citrus Fruits (such as grapefruit, lemons, limes, oranges, tangelos, tangorines, citrons, kumquats and hybrids)	Avocado leaf-roller California orange dog Citrus cutworm Citrus root weevil Fruit tree leaf-roller	1	5	Do not apply more than 20 quarts of SEVIN 4F per acre per application. 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 Citrus scale Citrus snow scale Yellow scale	1/2 to 1		
Filbert	Filbert aphid Filbert leafroller Filbert weevil	1	8	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.
Olive	Olive scale	1/2 to 1	8	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 4F per acre per application.
Peaches Apricots Nectarines	Apple pandemonium Codling moth Cucumber beetles European earwig Fruit tree leafroller Japanese beetle June beetles Lecanium scales Lesser peach tree borer Olive scale Orange tortrix Oriental fruit moth Peach twig borer Periodical cicada Plum curculio Redbanded leafroller San Jose scale Tarnished plant bug Tussock moths Variegated leaf-roller	1	1 (peaches) 3 (apricots & nectarines)	Do not apply more than 6 quarts of SEVIN 4F per acre per application to apricots. For optimum scale control apply when crawlers are present. Spray limbs and trunk thoroughly weekly during moth flight.

CROP	INSECT	QUARTS (1/2 "SEVIN" 4F/ACRE 100 gals)	PRE- HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Pecans	Black mar- gined aphid Fall webworm Hickory shuck- worm Lesser web- worm Pecan leaf phylloxera Pecan nut casebearer Pecan spittlebug Pecan weevil Twig girdler Walnut cater- pillar	1 to 2 1/2	0	Do not apply more than 7.2 quarts of SEVIN 4F per acre per application.
Plums Prunes Cherries	Black cherry aphid Brown soft scale Cherry fruit- worm Cherry maggot European earwig Eyespotted bud moth Forbes scale Fruitree leafroller Green fruit- worm Japanese beetle Lecanium scales Lesser peach- tree borer Mealy plum aphid Oystershell scale Peach twig borer Plum curculio Prune leafhopper Redbanded leafroller Rose chalcid San Jose scale Variegated leafroller	1	1	Do not apply more than 6 quarts of SEVIN 4F 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 dur- ing moth flight.
	Codling moth Eastern tent caterpillar	1/2		
Walnut	Calice scale European fruit lecanium Feltworm Fruitree leafroller Frosted scale	1/2	0	Apply 5 quarts of SEVIN 4F spray per acre for mature trees. For codling moth apply when average cross sectional diam- eters of developing nuts are 1/4 to 1/2 inch. Repeat during mid- dle or late June as needed.
	Codling moth			
	European earwig	2		Spray tree trunks to point of run-off.

TREES AND ORNAMENTALS

For dilute-spray ground applications to trees (including shade trees, sugar maple, shelter belts, forests, plantations, parks and recreational areas), 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 tablespoonful (¼ fluid ounce) of SEVIN 4F per gallon of water where rates of 1 quart are indicated.

For aerial applications to forest trees (including shade trees, sugar maple, 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 4F	SPECIFIC DIRECTIONS
GROUND APPLICATION:	Ants	Grasshoppers	Plant bugs		Observe plant response precautions.
Trees (including shade trees, sugar maple, shelter belts, forests, plantations, parks and recreational areas)	Apple aphid	Gypsy moth	Ponsettia hornworm		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 aphid control, treat with in early instars. Addition of a sticker may improve residual control.
Ornamentals (including roses, flowers and other herbaceous plants), Woody Plants and Shrubs	Armyworm	Hickberry nipper	Psychids		
	Azalea leaf-miner	Maple gall maker	Puss caterpillar		
	Bagworms	Holly bud moth	Redhumped oak worm		
	Birch leaf-miner	Holly leaf-miner	Rose aphid		
	Blister beetle	Jack pine budworm	Rose chafar		
	Borer bug	Japanese beetle	Rose slug		
	Boxwood leaf-miner	Jeffrey pine needleminer	Saddled prominent		
	Brown tail moth	June beetles	Sawflies (exposed)		
	Cankerworms	Lace bugs	Scale insects		
	Catalpa sphinx	Leafhoppers	Sawbugs		
	Chiggers	Leakhoes	Spiny elm caterpillar		
	Cooley spruce gall aphid	Locust borer	Springtails		
	Cutworms	Maple leaf-cutter	Spruce budworm		
	Cypress tip moth	Mealy bugs	Spruce needle-miner		
AERIAL APPLICATION:	Douglas fir tussock moth	Marmosa webworm	Subtropical pine tip moth		
Forest Trees (including shade trees, sugar maple, shelter belts, forests, plantations, parks and recreational areas)	Eastern spruce gall aphid	Manituckel pine tip moth	Tent caterpillar		
	Elm leaf aphid	Oak leaf-miners	Thorn bug		
	Elm leaf beetle	Oak leaf skeletonizer	Thrips (exposed)		
	Elm spanworm	Oak worm	Ticks		
	Eriophyd mites	Complex	Walnut caterpillar		
	European pine shoot moth	Deander caterpillar	Webworms		
	Fall armyworm	Drum ash borer	Western hemlock looper		
	Flea beetles	Orange striped oakworm	Western spruce budworm		
	Filter rose beetle	Orange tortrix	Willow leaf beetles		
	Gall midges	Periodical cicada	Yellow poplar weevil		
	Gall wasps	Pine sawfly			
	Green striped mapleworm	Pine spittlebug			
		Pitch pine tip moth			

CROP	INSECT	QUARTS OF SEVIN 4F	SPECIFIC DIRECTIONS
Trees and Ornamentals (cont.)	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 Earwig Essex skipper European chafar Fall armyworm Fairy skipper Fleas Grasshoppers June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks Yellow-striped armyworm	Use 1 quart of SEVIN 4F 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 4F in 150 to 200 gallons of spray per 5000 square feet.

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 tablespoonful (1/2 fluid ounce) of SEVIN 4F per gallon of water, where rates of 1 qt. 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 4F	SPECIFIC DIRECTIONS
Pastures Rangelands Yards Parks Recreational Areas Logging Camps Military Posts and Adjacent Forested lands or Wastelands	1/2 to 1 1/2 to 1 tablespoonful per gallon	ADULT MOSQUITOES Caution: May kill shrimp and crabs. Do not use in areas where these are important resources. Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early morning or late evening. Repeat at 7 to 10 day intervals. Use 1/2 to 1 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.
	25	For residual control in subtropical regions apply 4 gallons of prepared spray per 2000 square feet surface area. Repeat in 3 to 6 months or when necessary.

PEST CONTROL IN AND AROUND BUILDINGS LIMITED TO PEST CONTROL OPERATORS ONLY

INSECT	QUARTS OF SEVIN 4F/100 GAL.	SPECIFIC DIRECTIONS
Ants Cockroaches	20 (20 tablespoonfuls/ gallon)	For use in and around buildings such as homes, apartments, warehouses, barns and municipal and recreational areas.
Brown dog tick Earwings Fleas Mole crickets Silverfish	10 (10 tablespoonfuls/ gallon)	Apply as a coarse wet spray or with a paint brush, and thoroughly treat cracks and crevices, baseboards, corners, walls, door sills, and window frames, quarters of household pets, and rats, outside perimeter of dwellings and other areas where insects tend to congregate. Do not use as a space spray. Repeat when necessary but not more often than twice per week. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. Avoid application to surfaces where visible spray residues are objectionable.

POULTRY INSECT CONTROL

POULTRY	INSECT	SPECIFIC DIRECTIONS
Chickens, Ducks, Geese, Gamebirds, Pigeons and Turkeys	Chicken mite Flea Lice Northern Fowl mite	For use as a direct mist spray on birds by: 1. Misting with Electric Fog Machine. Mix 10 ounces of SEVIN 4F in 1 gallon of spray. Use 1½ gallons per 1000 fens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. or 2. Spraying with knapsack or cylinder type compressed air sprayers. Mix 6 ounces of SEVIN 4F in 5 gallons of spray. Use 1 gallon per 100 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. Direct mist spraying for chicken mite and fleas is a supplement to spraying roosts and buildings for control of these pests. Do not apply to poultry and game birds within 7 days of slaughter.

POULTRY QUARTERS	INSECT	SPECIFIC DIRECTIONS
Roosts and Buildings	Bedbugs Chicken mite Flea Fowl tick Lesser meashworms Lice Northern fowl mite	Spray roosts and buildings with conventional power spray or knapsack equipment. For chicken mite, fleas and bedbugs, use 4 quarts of SEVIN 4F per 100 gallons of water. For fowl ticks, use 16 quarts of SEVIN 4F per 100 gallons of water. For lesser meashworms, use 50 quarts per 100 gallons. Spray 1 to 2 gallons per 1000 square feet of wall, bedding, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid contamination of nests, eggs and feeding and watering troughs. Ventilate while spraying. Do not treat premises within 7 days of slaughter.



**CARBARYL INSECTICIDE
FOR AGRICULTURAL OR COMMERCIAL USE
ONLY**

Active Ingredient:
Carbaryl (1-naphthyl methylcarbamate) 43% by Wt.
Inert Ingredients: 57% by Wt.
(Contains 4 pounds Carbaryl per Gallon)

E.P.A. Reg. No. 264-348

E.P.A. Est. No. 74-MO-82

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUTIONARY STATEMENTS: See inside booklet

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

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

SEVIN is the registered trademark of UNION CARBIDE CORPORATION for carbaryl insecticides.

APC-60205700F2

MADE IN U.S.A.

DO NOT DETACH BOOKLET FROM CONTAINER.



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564-347

**CARBARYL INSECTICIDE
FOR AGRICULTURAL OR COMMERCIAL USE
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Active Ingredient:
Carbaryl (1-naphthyl methylocarbamate) 43% by Wt
Inert Ingredients: 57% by Wt
(Contains 4 pounds Carbaryl per Gallon)

E.P.A. Reg. No. 264-348 E.P.A. Est. No. 264-MO-02

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APC-0000870072

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LIMITED WARRANTY AND DISCLAIMER

1. 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.
2. This warranty does not extend to, and the Buyers 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.
3. 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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.

STATEMENT OF PRACTICAL TREATMENT

If swallowed, induce vomiting and seek medical attention immediately.

If in eyes or on skin, flush eyes thoroughly with water, wash skin thoroughly with soap and water.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label. Use strictly according to label directions and cautions. Do not use application methods, dosages, concentrations, or frequencies not listed on labeling. Do not apply against target pests or crops not listed on labeling. Do not mix with fertilizers.

SPRAY PREPARATION

To assure a uniform product, agitate, stir or recirculate all SEVIN 4F containers prior to use. Remove oil, rust, scale, pesticide residues or other foreign matter from mix tanks and entire spray system. Flush with clean water.

Fill spray or mix tank with $\frac{1}{2}$ to $\frac{3}{4}$ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SEVIN 4F, 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 4F, 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 4F 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 4F 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.

GENERAL INFORMATION

SEVIN 4F 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. The directions on this label are based on tests and field experience relating to (a) effectiveness, (b) possible injury to plants and animals, and (c) residues in food, feed and milk. **READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL AND STATE REGULATIONS.**

Treated areas may be reentered immediately after the spray has 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 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.

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.

SEVIN injures Boston ivy, Virginia creeper and maidenhair fern. 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.

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 4F diluted 1:1 with water is similar to water.

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

Avoid applications just before rainfall as poor insect control may result.

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

Refer to the Storage and Disposal directions for proper disposal of this rinse water.

STORAGE AND DISPOSAL

Store unused SEVIN 4F in original container only, in cool, dry place 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. Open dumping is prohibited.

PESTICIDE DISPOSAL

Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and local procedures.

INSECT CONTROL

Apply when insects or their damage appears. 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 4F does not control spider mites. If spider mites are a problem use a registered miticide.

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 per gallon 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" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage Field and Vegetable Crops in This Section	Grasshoppers	1/2 to 1 1/2	See specific 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	Brister beetles Mexican bean beetle	1/2 to 1	0	Observe plant response precautions.
	Alfalfa caterpillar Japanese beetle Leafhoppers Bean leaf beetle Three cornered alfalfa hopper Cucumber beetles Thrips Green Velvetbean caterpillar	1		
	Alfalfa weevil larvae European alfalfa beetle Armyworm Fall armyworm Cloverhead Lygus bugs Weevil Stink bugs Corn earworm Webworms Cutworms Yellow-striped armyworm Egyptian alfalfa weevil larvae Essex skipper	1 to 1 1/2		
Asparagus	Asparagus beetle	1 to 2	1	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.
	Apache/Osada Asparagus beetle	2 to 4	Post harvest application only	

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CROP	INSECT	QUARTS OF "SEVIN" A/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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	0	Observe plant response precautions.
	Alabama caterpillar Bean leaf beetle Cucumber beetles Flea beetles Green cloverworm Japanese beetle	1		
	Armyworm Corn earworm Cutworms European corn borer	1 to 1 1/2		
	Cowpea cutworm	2		
	Corn earworm Lima bean pod borer	2		
Cabbage Broccoli Brussels Sprouts Cauliflower Kohlrabi	Flea beetles Harlequin bug	1/2 to 1	3	
	Armyworm Corn earworm Fall armyworm	1 to 2		
Chinese cabbage Collards Harover salad Horse radish Kale Mustard greens Radishes Rutabagas Turnips	Flea beetles Harlequin bug	1/2 to 1	3 14 (Chinese cabbage collards, Harover salad, kale, mustard greens, rutabagas)	
	Aster leafhopper	1 to 1 1/2		
	Armyworm Corn earworm Fall armyworm	1 to 2		

CROP	INSECT		QUARTS OF "SEVIN" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Carrots Parsnips Parsley Celery	Flea Beetles	Leafhoppers	1/2 to 1	0	NOT FOR USE ON CELERY IN FLOWERING. Treat on a 5 to 7 day schedule
	Aster leafhopper	Spittlebugs	1 to 1 1/2	3 (parsnips) 14 (celery and parsley)	
	Lygus bugs				
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2		
Corn field, sweet, pop	Armyworm Chinch bugs Corn earworm Corn rootworm adults European corn borer Fall armyworm	Flea beetles Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 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. For Chinch bugs use high gallonage ground application directed at the base of plants. Optimum timing and good coverage are essential for effective control.
	Western bean cutworm		2		
	Culex		2 to 6 1/2		
Cotton	Cotton fleahopper Cotton leafworm Flea beetles	Striped blister beetle Thrips	1/2 to 1		Early season insect control.
	Boll weevil Cottonworms Cotton leaf perforator Fall armyworm Leafrollers	Leafhoppers Tarnished plant bug Yellow-striped armyworm (cotton cutworm)	1 to 2	0	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.

CROP	INSECT		QUARTS OF "SEVIN" 4% ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Cotton (cont.)	Lygus bugs		1 to 2		For light to moderate populations in Western irrigated cotton	
	Pink bollworm		1½ to 2½		Aphid populations will be suppressed by repeated applications of this insecticide	
	Stink bugs	Saltmarsh caterpillar	2			
Cucumber	Pickleworm	Melonworm	½ to 1	0	Observe plant response precautions	
Melons	Cucumber beetles	Leafhoppers	1		Avoid excessive applications	
Pumpkins	Flea beetles	Squash bugs				
Squash	Flea beetles	Leafhoppers	½ to 1	3 (head lettuce & salsify) 14 (dandelion, endive, escarole) leaf lettuce & salsify tops)	Observe plant response precautions Treat on a 5 to 7 day schedule after heads begin to form.	
	Harlequin bug					
	Aster leaf-hopper	Spittlebugs	1 to 1½			
	Lygus bugs					
	Armyworm	Imported cabbage worm	1 to 2			
Corn earworm	Barge worm					
Fall armyworm	Stink bugs					
	Tarnished plant bug					
Grage	Armyworm	Range caterpillars	1 to 1½	0	To control thrips in grasses grown for seed use high spray pressure to improve penetration into boot.	
	Black grass bugs	Range crane fly				
	Crunch bugs	Striped grass looper				
	Essex skipper	Thrips				
	Fall armyworm					
	White grubs (green June beetle)		1½ to 2			
Garden beet	Flea beetles	Leafhoppers	½ to 1	3 (garden beet roots) 14 (garden beet tops spinach Swiss chard)	Treat on a 5 to 7 day schedule	
	Harlequin bug					
	Aster leaf-hopper		1 to 1½			
	Armyworm	Stink bugs	1 to 2			
Corn earworm	Tarnished plant bug					
Fall armyworm						
Okra	Corn earworm	Stink bugs	1 to 2	0	Treat on a 5 to 7 day schedule	

CROP	INSECT	QUARTS OF "SEVIN" OF ACRE 100 gal	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Peanuts	Baker beetles Mexican bean beetle	1/2 to 1	0	Observe plant response precautions
	Alabama caterpillar Red necked Bean leaf beetle peanutworm Cucumber beetles Three cornered Green clover- allia hopper worm Thrips Japanese beetle Velvetbean Leafhoppers caterpillar	1		
	Armyworm Stink bugs Corn earworm Webworms Fall armyworm	1 to 1 1/2		
	Whitefringed beetle adults Cutworms	2		
Peas	Colorado potato beetle	1	0	WASHINGTON STATE ONLY
	Leafhoppers			
	Armyworm	1 to 1 1/2		
	Alabama caterpillar Pea weevil Cutworms Yellow striped Pea leaf weevil armyworm	1/2		
	Alabama looper	2 1/2		
Potato Tomato Eggplant Pepper	Colorado potato beetle	1/2 to 1	0	
	Flea beetles			
	Leafhoppers			
	European corn Tarn shed plant borer bug Fall armyworm Tomato fruit- worm Lace bugs Tomato horn- worm Stink bugs Tomato pinworm			
	Cutworms			
Rice				Cautious May kill shrimp and crabs. Do not use in areas where these are important resources. DO NOT APPLY PROPAHAL MEMBERS WITHIN 15 DAYS BEFORE OR AFTER SEVIN IF APPLICATION OR PLANT INJURY WILL RESULT MISSISSIPPI DELTA & TEXAS
	Armyworm Fall armyworm Crunch bugs Stink bugs	1 to 1 1/2	14	

CROP	INSECT	QUARTS OF "SEVIN" 4F/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Rice (cont.)	Armyworm Tadpole shrimp Leahoppers	2	14	CALIFORNIA ONLY For optimum tadpole shrimp control apply to water when pest first appears
Sorghums (milo, grain sorghum, sweet sorghum and hybrids)	Armyworms Fall armyworm Chinch bugs Stink bugs Corn earworm Webworms	1 to 2	21 (grain)	Direct spray into forming heads for optimum insect control
	Sorghum midge Southwestern corn borer	1%	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. For chinch bugs use high gallonage ground application directed at the base of plants
	Cutworms	2		
Soybeans	Bean leaf beetle Mexican bean beetle Cucumber beetles Velvetbean caterpillar Green clover-worm	½	0	DO NOT APPLY A COMBINATION OF SEVIN 4F AND 2,4-DB HERBICIDES TO SOYBEANS. For light to moderate populations
	Corn earworm	½ to ¾		
	Blister beetles Grape colaspas Mexican bean beetle	½ to 1		To control heavy infestation, use higher rate
	Atlatla caterpillar Bean leaf beetles Cucumber beetles Green clover-worm Japanese beetle	1		
	Armyworm Fall armyworm Corn earworm Stink bugs Cutworms Webworms	1 to 1½		
	Painted lady (Thistle caterpillar) Safflower caterpillar Yellow-striped armyworm	2 to 2½		

CROP	INSECT	QUARTS OF "SEVIN" 4F/ACRE 100 gals.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sugar beets	Armyworm, Flea beetles, Beet leaf beetle, Leafhoppers, Fall armyworm, Webworms	1 to 1½	14	
	Cutworms	1½		
Sunflower	Cutworms	1½	80	NOT FOR USE IN CALIFORNIA
	Armyworm, Fall armyworm	1½ to 2		
	Stem Weevil, Sunflower beetle	1 to 2		
Sweet Potato	Corn earworm, Cucumber beetles, Flea beetles, Sweet potato hornworm, Tortoise beetles	1 to 2	0	NOT FOR 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 lbs./gal. 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 grub	½ qt/100 gallons		Apply only to areas that larvae have occupied by sprinkling as a drench with 50 to 100 gallons per 100 square yards.
	Budworms, Japanese beetle, Fall armyworm, June beetle, Flea beetles, Suckfly, Hornworms	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 pruning or cutting.