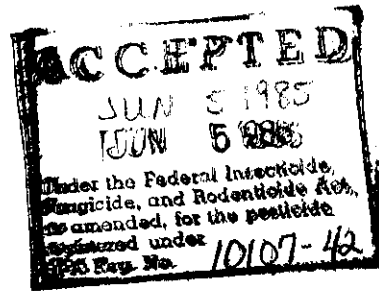


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10107-42

6-5-85



LOAD FONTS: HE55/1;HE56/2;HE65/3;HE57/5

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

May be harmful if swallowed. Avoid breathing vapors (dust or spray mist). Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

**NOTE FOR PHYSICIAN:** Carbaryl is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal. AVOID CONTAMINATION OF FOOD, FEED, FEEDING TROUGHES, AND WATERING RECEPTACLES. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water and wetlands, except under the forest canopy and use on rice. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

### DIRECTIONS FOR USE

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

### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. DO NOT REUSE EMPTY CONTAINER.

**PESTICIDE DISPOSAL: NON-HAZARDOUS WASTE.** 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.

Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

# SEVIN 4L

ACTIVE INGREDIENTS	By Weight
Carbaryl (1-naphthyl N-methylcarbamate) .....	43.4%
INERT INGREDIENTS .....	56.6%
TOTAL	
100.0%	

SEVIN is the registered trademark of Union Carbide Corporation for the active ingredient 1-naphthyl N-methylcarbamate.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink one of two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention immediately.

**IF INHALED:** Remove victim to fresh air and apply respiration if indicated.

**IF ON SKIN:** Wash promptly with soap and water. Rinse thoroughly.

**IF IN EYES:** Rinse eyes for at least 15 minutes with water and call a physician immediately.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA Reg. No. 10107-42

EPA Est. No. 10107-NB-1

MANUFACTURED FOR  
**CORNBELT CHEMICAL COMPANY**  
P.O. Box 410, McCook, Nebraska 69001

NET CONTENTS:      GALLONS

**GENERAL INFORMATION**

SEVIN 4L is a suspension of microfine carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which, when applied by air or ground equipment, resists erosion by rainfall or overhead irrigation. 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.

**PRE-HARVEST AND GRAZING USE INFORMATION AND LIMITATIONS**

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing possible 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 sand pines.

Observe label instructions on apple thinning and on combinations with certain herbicides on rice and soybeans.

**SPRAY PREPARATION**

TO ASSURE A UNIFORM PRODUCT, AGITATE, STIR OR RECIRCULATE ALL SEVIN 4L 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 1/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SEVIN 4L, and then the remaining volume of water. Include rinse water from container. Dilution of 2 volumes of SEVIN 4L with 1 volume of water will allow maximum resistance to washoff by rainfall or overhead irrigation. Dilutions higher than 1:11 are not recommended where residual insect control from washoff resistance is desired. 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.**

**COMPATABILITY**

SEVIN 4L, 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 4L with another product and the resulting 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 4L 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 4L diluted 2:1 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.

**NON-WARRANTY**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

**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.

SEVIN 4L does not control spider mites. If spider mites are a problem, use a registered miticide.

Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl label(s).

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**FORAGE, FIELD AND VEGETABLE CROPS**

Apply in sufficient spray volume to obtain thorough coverage. Where maximum washoff resistance is needed, use up to a 1:1 (vol./vol.) dilution with water. Do not dilute greater than 1:11 where washoff resistance is desired. To prepare small volumes of spray, use 1 tablespoonful (1 fluid ounce) of SEVIN 4L 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 SEVIN 4L ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage, Field, and Vegetable Crops in this section	Grasshoppers	½ to 1½	See specific Forage, Field, or Vegetable Crop	Use ½ to 1 quart for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditch banks and borders. Use 1 to 1½ quarts for adult grasshoppers or applications to dense vegetation.
Alfalfa Clovers	Blister Beetle, Mexican Bean Beetle	½ to 1	3	Observe plant response precautions  For Alfalfa Weevil Larvae, if pre-treatment 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
	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar	1		
Asparagus	Alfalfa Weevil Larvae, Armyworm, Cloverhead Weevil, Corn Earworm, Cutworm, European Alfalfa Weevil, Loopworm, Essex Skipper, European Alfalfa Beetle, Fall Armyworm, Lygus Bug, Stink Bug, Webworm, Yellow-Striped Armyworm	1 to 1½	1	Treat ferns or brush growth. Do not treat more than once every 3 days.
	Asparagus Beetle	1 to 2	Post-Harvest Application Only	
Beans (including black-eyed peas, crowder or Southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Apache Cicada, Asparagus Beetle	2 to 4	0	Observe plant response precautions.
	Blister Beetle, Mexican Bean Beetle	½ to 1		
Cowpeas	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Flea Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar, Western Bean Cutworm	1	3	CALIFORNIA ONLY
	Armyworm, Corn Earworm, Cutworm, European Corn Borer, Fall Armyworm, Stink Bug, Tarnished Plant Bug, Webworm	1 to 1½		
Cabbage Broccoli Brussels Sprouts Cauliflower Kohlrabi	Cowpea Curculio	2	3	
	Corn Earworm, Lima Bean Pod Borer, Lygus Bug, Stink Bug	4		
Chinese Cabbage Collards Hanover Salad Horseradish Kale Mustard Greens Radishes Rutabagas Turnips	Flea Beetle, Harlequin Bug	½ to 2	3	
	Armyworm, Corn Earworm, Fall Armyworm, Imported Cabbageworm	1 to 2		
Chinese Cabbage Collards Hanover Salad Horseradish Kale Mustard Greens Radishes Rutabagas Turnips	Flea Beetle, Harlequin Bug, Leafhopper	½ to 1	3 (horseradish, radishes, rutabagas, turnip roots)	
	Aster Leafhopper	1 to 1½		
Chinese Cabbage Collards Hanover Salad Horseradish Kale Mustard Greens Radishes Rutabagas Turnips	Armyworm, Corn Earworm, Fall Armyworm, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug	1 to 2	14 (Chinese cabbage, collards, Hanover salad, kale, mustard greens & turnip greens)	

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CROP	INSECT	QUARTS SEVIN 4L /ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Carrots Parsnips Parsley	Flea Beetle, Leafhopper	½ to 1	0 (carrots)	Treat on a 5 to 7 day schedule.
	Aster Leafhopper, Lygus Bug, Spittlebug	1 to 1½	3 (parsnips)	
	Armyworm, Corn Earworm, Fall Armyworm, Stink Bug, Tarnished Plant Bug	1 to 2	14 (parsley)	
Corn (Field, Sweet, Popcorn)	Armyworm, Corn Earworm, Corn Rootworm Adult, European Corn Borer, Fall Armyworm, Flea Beetle, Japanese Beetle, Sap Beetle, Southwestern Corn Borer, Leafhopper	1 to 2	0	OBSERVE BEE CAUTION: For insects attacking silks and ears, apply at 1 to 8 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 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
	Outworms	2 to 6½	0	Apply in a 12-inch band, using 12 fluid ounces per 1000 linear feet of row, in at least 15 gallons of water per acre. For broadcast application, use 13 quarts in at least 20 gallons (ground) or 6 gallons (air) of water per acre.
Cotton	Cotton Fleahopper, Cotton Leafworm, Flea Beetle, Striped Blister Beetle, Thrips	1½ to 1	7	Early season insect control
	Boll Weevil, Bollworm, Cotton Leaf Perforator, Fall Armyworm, Leafroller, Leafhopper, Tarnished Plant Bug, Yellow-Striped Armyworm (Cotton Cutworm)	1 to 2	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.
	Lygus Bug	1 to 2	7	For light to moderate populations in Western irrigated cotton.
	Pink Bollworm Stink Bug, Saltmarsh Caterpillar	1½ to 2½ 2	7	Aphid populations will be suppressed by repeated applications of this insecticide.
Cucumber Melons, Pumpkin, Squash	Pickworm, Melonworm	½ to 1	0	Observe plant response precautions. Avoid excessive applications.
	Cucumber Beetle, Flea Beetle, Leafhopper, Squash Bug	1		
Dandelion Endive (Escarole) Lettuce Salsify	Flea Beetle, Harlequin Bug, Leafhopper	½ 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 Bug, Spittlebug	1 to 1½	14 (dandelion, endive (escarole), leaf lettuce, salsify tops)	
	Armyworm, Corn Earworm, Fall Armyworm, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug	1 to 2		
Forage Grasses, Pasture	Armyworm, Black Grass Bug, Chinch Bug, Essex Skipper, Fall Armyworm, Range Caterpillar, Range Crane Fly, Striped Grass Looper, Thrips	1 to 1½	0	To control thrips in grasses grown for seed use high spray pressure to improve penetration into boot.
	White Grub (June Beetle)	1½ to 2		

SEVIN 4L

CROP	INSECT	QUARTS SEVIN 4L / ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Garden Beet Spinach Swiss Chard	Flea Beetle, Harlequin Bug, Leafhopper	1/2 to 1	3 (garden beet roots)	Treat on a 5 to 7 day schedule.
	Aster Leafhopper	2 1/2 to 1 1/2		
	Armyworm, Corn Earworm, Fall Armyworm, Stink Bug, Tarnished Plant Bug	1 to 2	14 (garden beet tops, spinach, Swiss chard)	
Okra	Corn Earworm, Stink Bug	1 to 2	0	Treat on a 5 to 7 day schedule.
Peanuts	Bilateral Beetle, Mexican Bean Beetle	1/2 to 1	0	Observe plant response precautions.
	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Green Clovermite, Japanese Beetle, Leafhopper, Red-Necked Peanutworm, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar	1		
	Armyworm, Corn Earworm, Fall Armyworm, Stink Bug, Webworm	1 to 1 1/2		
	White-Fringed Beetle Adults, Cutworms	2		
Peas	Colorado Potato Beetle, Leafhoppers	1	0	
	Armyworm	1 to 1 1/2		
	Alfalfa Caterpillar, Cutworm, Pea Leaf Weevil, Pea Weevil, Yellow-Striped Armyworm	1 1/2		
	Alfalfa Looper	2 1/2		
Potato Tomato	Colorado Potato Beetle, Flea Beetle, Leafhopper	1/2 to 1	0	WASHINGTON STATE ONLY
Eggplant Pepper	European Corn Borer, Fall Armyworm, Lace Bug, Stink Bug, Tarnished Plant Bug, Tomato Fruitworm, Tomato Hornworm, Tomato Pinworm	1 to 2		
	Cutworm	2		
Rice	Armyworm, Chinch Bug, Fall Armyworm, Stink Bug	1 to 1 1/2	14	DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER SEVIN 4L APPLICATION OR PLANT INJURY WILL RESULT. Do not use on rice fields in which crayfish and/or catfish farming is included in the cultural practice. MISSISSIPPI DELTA & TEXAS
	Armyworm, Leafhopper, Tadpole Shrimp	2	14	CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when pest first appears
Sorghums (milo, grain sorghum, sweet sorghum & hybrids)	Armyworm, Chinch Bug, Corn Earworm, Fall Armyworm, Stink Bug, Webworm	1 to 2	21 (grain)	Direct spray into forming heads for optimum insect control. Treat for sorghum midge when 25% to 30% of heads have emerged from boot and are in bloom. Repeat application 3 to 6 days later if adults are still active. A third application may be necessary in late planted sorghum or if midges are abundant.
	Sorghum Midge, Southwestern Corn Borer	1 1/2		
	Cutworm	2	0 (forage)	

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CROP	INSECT	QUARTS SEVIN 4L /ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Soybeans	Bean Leaf Beetle, Cucumber Beetle, Green Cloverworm, Mexican Bean Beetle, Velvetbean Caterpillar	½	0	DO NOT APPLY A COMBINATION OF SEVIN 4L and 2,4-DB HERBICIDES TO SOYBEANS. For light to moderate populations.
	Corn Earworm	1½ to ¼		
	Bilateral Beetle, Grape Colaspis, Mexican Bean Beetle	½ to 1	0	To control heavy infestations, use higher rate
	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar	1		
	Armyworm, Corn Earworm, Cutworm, Fall Armyworm, Stink Bug, Webworm	1 to 1½		
	Painted Lady (Thistle Caterpillar), Saltmarsh Caterpillar, Yellow-Striped Armyworm	2 to 2½		
Sugar Beets	Armyworm, Beet Leaf Beetle, Fall Armyworm, Flea Beetle, Leafhopper, Webworm	1 to 1½	14	
	Cutworm	1½		
Tobacco	Tobacco Flea Beetle	2 Tbs/gal. or 1 Qt. per 50 gals. or 6 gals. per 100 sq. yds.	0	IN PLANT BEDS: To prevent injury, avoid excessive applications
	Green June Beetle Grubs	½ Qt. per 100 gal.		Apply only to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per 100 square yards.
	Budworm, Fall Armyworm, Flea Beetle, Hornworm, Japanese Beetle, June Beetle, Suckfly	1 to 2		IN FIELDS: Use lower rate on young plants (up to knee height). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small. If late season applications are necessary, allow three days before pruning or cutting.

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### 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 4L in the spray mixture to apply any 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 SEVIN 4L/ 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
APPLE THINNING Apples only	¼ to ½	1	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 4L, exercise caution to avoid possible yield reduction. For easily thinned varieties, including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton
	½ 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 SEVIN 4L/ 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach Twig Borer, San Jose Scale, Fruit Tree 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 10 quarts per acre.
Apples	Apple Aphid, Apple Rust Mite, Apple Sucker, Batworm, California Pearslug (Pear Sawfly), Codling Moth, Eye-Spotted Bud Moth, Green Fruitworm, Lecanium Scale, Lesser Appleworm, Lygus Bug, Orange Tortrix, Oystershell Scale, Pear Leaf Blister Mite, Pear Psylla, Pear Rust Mite, San Jose Scale, Tentiform Leafminer, Woolly Apple Aphid	¼ 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, White Apple Leafhopper	½	1	EAST OF THE ROCKY MOUNTAINS To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control, apply when crawlers are present.
Citrus Fruits (such as Grapefruit, Lemons, Oranges, Tangerines, Citrus Citron, Kumquats and Hybrids)	Avocado Leafroller, California Orangedog, Citrus Cutworm, Citrus Root Weevil, Fruit Tree Leafroller, Orange Tortrix, Western Tussock Moth, West Indian Sugarcane Borer (Adults)	1		5
	Black Scale, Brown Soft Scale, California Red Scale, Citricola Scale, Citrus Snow Scale, Yellow Scale	¼ to 1	Do not apply less than 10 gallons of dilute mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.	
Filberts	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.
Olives	Olive Scale	¼ to 1	0	For optimum scale control add 1½ 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 4L per acre per application.
Peaches Apricots Nectarines	Apple Pandemia, Codling Moth, Cucumber Beetle, European Earwig, Fruit Tree Leafroller, Japanese Beetle, June Beetle, Lecanium Scale, Lesser Peachtree Borer, Olive Scale, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Plum Curculio, Red-Banded Leafroller, San Jose Scale, Tarnished Plant Bug, Tussock Moth, Variegated Leafroller	1	1 (Peaches) 3 (Apricots & Nectarines)	Do not apply more than 6 quarts of SEVIN 4L per acre per application to apricots. For optimum scale control, apply when crawlers are present. Spray limbs and trunk thoroughly weekly during moth flight.

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	Navel Orangeworm	1	28	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 10 quarts per acre.
Apples	Apple Aphid, Apple Rust Mite, Apple Sucker, Batworm, California Pearslug (Pear Sawfly), Codling Moth, Eye-Spotted Bud Moth, Green Fruitworm, Lecanium Scale, Lesser Appleworm, Lygus Bug, Orange Tortrix, Oystershell Scale, Pear Leaf Blister Mite, Pear Psylla, Pear Rust Mite, San Jose Scale, Tentiform Leafminer, Woolly Apple Aphid	¼ 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, White Apple Leafhopper	½	1	EAST OF THE ROCKY MOUNTAINS To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control, apply when crawlers are present.
	Apple Maggot, Apple Rust Mite, Bagworms, Eastern Tent Caterpillar, European Apple Sawfly, Eye-Spotted Bud Moth, Forbes Scale, Fruit Tree Leafroller, Green Fruitworm, Japanese Beetle, Lecanium Scale, Lesser Appleworm, Oystershell Scale, Pear Psylla, Pear Leaf Blister Mite, Pear Rust Mite, Periodical Cicada, Plum Curculio, Red-Banded Leaf Roller, Roxy Apple Aphid, San Jose Scale, Tarnished Plant Bug, Tentiform Leafminer, Woolly Apple Aphid, Yellow-Headed Fireworm	1		
Citrus Fruits (such as Grapefruit, Lemons, Oranges, Tangelos, Tangerines, Citrus Citron, Kumquats and Hybrids)	Avocado Leafroller, California Orangedog, Citrus Cutworm, Citrus Root Weevil, Fruit Tree Leafroller, Orange Tortrix, Western Tussock Moth, West Indian Sugarcane Borer (Adults)	1	5	Do not apply more than 20 quarts of SEVIN 4L per acre per application. Do not apply less than 10 gallons of dilute 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	¼ to 1		
Filberts	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.
Olives	Olive Scale	¼ to 1	0	For optimum scale control add 1½ 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 4L per acre per application.
Peaches Apricots Nectarines	Apple Pandemia, Codling Moth, Cucumber Beetle, European Earwig, Fruit Tree Leafroller, Japanese Beetle, June Beetle, Lecanium Scale, Lesser Peachtree Borer, Olive Scale, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Plum Curculio, Red-Banded Leafroller, San Jose Scale, Tarnished Plant Bug, Tussock Moth, Variegated Leafroller	1	1 (Peaches) 3 (Apricots & Nectarines)	Do not apply more than 6 quarts of SEVIN 4L 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 SEVIN 4L/ 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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 2½	0	Do not apply more than 36 quarts of SEVIN 4L per acre per application.
Peaches Prunes Cherries	Black Cherry Aphid, Brown Soft Scale, Cherry Fruitworm, Cherry Maggot, European Earwig, Eye-Spotted Bud Moth, Forbes Scale, Fruit Tree Leafroller, Green Fruitworm, Japanese Beetle, Lecanium Scale, Lesser Peachtree Borer, Mealy Plum Aphid, Oystershell Scale, Peach Twig Borer, Plum Curculio, Prune Leafhopper, Red-Banded Leafroller, Rose Chafer, San Jose Scale, Variegated Leafroller	1	1	Do not apply more than 3 quarts of SEVIN 4L 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	¼		
Walnut	Calico Scale, European Fruit Lecanium, Filbertworm, Fruit Tree Leafroller, Frosted Scale	½	0	Apply 2½ quarts of SEVIN 4L spray per acre for mature trees. For codling moth apply first spray when average cross-sectional diameters of developing nuts are ½ to ¾ inch. Repeat during middle or late June as needed. Spray tree trunks to point of runoff.
	Codling Moth	½		
	European Earwig	2		

Recommended dosages refer to quarts of SEVIN 4L per acre. 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 SEVIN 4L/ 100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (Including Boysenberries and Loganberries)	European Raspberry Aphid, Japanese Beetle, Leafhopper, Leafroller, Rose Chafer, Snowy Tree Cricket	1 to 2	7	CALIFORNIA ONLY
	Omnivorous Leafroller, Raspberry Sawfly	2		
Blueberries	Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, European Fruit Lecanium, Japanese Beetle	1½	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworm, Cranberry Fireworm, Cranberry Fruitworm, Japanese Beetle, Leafhopper, Rose Chafer	1½ to 3	1	Apply in late bloom and as needed at 7 to 10 day intervals.
Grapes	European Fruit Lecanium, Grape Leaf Folder, Grape Leafhopper, Western Grapeleaf Skeletonizer, Western Yellow-Striped Armyworm	1 to 2	0	Apply before first brood leaf-folder larvae emerge from rolls.
	Cutworm, Eight-Spotted Forester, Grape Berry Moth, Japanese Beetle, June Beetle, Orange Tortrix, Omnivorous Leafroller, Red-Banded Leafroller, Saltmarsh Caterpillar	2		
Strawberries	Flea Beetle, Meadow Spittlebug, Omnivorous Leafroller, Strawberry Fruitworm, Strawberry Leafroller, Strawberry Weevil	1 to 2	1	Do not apply to sunrise varieties on the Delmarva Peninsula.



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### TREES AND ORNAMENTALS

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 4L per gallon of water, where rates of 1 quart are indicated.

For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreational areas), and commercially grown ornamentals, woody plants and shrubs, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds.

CROP	INSECT	QUARTS SEVIN 4L	SPECIFIC DIRECTIONS
<b>GROUND APPLICATION</b> Trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas) Ornamentals (including roses, flowers and other herbaceous plants), Woody Plants and herbaceous plants, Woody Plants and Shrubs <b>AERIAL APPLICATION</b> Forest Trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas) and Commercially Grown Ornamentals (including roses, flowers and other herbaceous plants), Woody Plants and Shrubs	Ants, Apple Aphid, Armyworm, Azalea Leafminer, Bagworm, Birch Leafminer, Blister Beetle, Boxelder Bug, Boxwood Leafminer, Brown Tail Moth, Cankerworm, Catalpa Sphinx, Chiggers, Cooley Spruce Gall Aphid, Cutworm, Cypress Tip Moth, Douglas Fir Tussock Moth, Eastern Spruce Gall Aphid, Elm Leaf Aphid, Elm Leaf Beetle, Elm Spanworm, Eriophyid Mite, European Pine Shoot Moth, Fall Armyworm, Flea Beetle, Fuller Rose Beetle, Gall Midge, Gall Wasp, Green Striped Mapleworm, Grasshopper, Gypsy Moth, Hackberry Nipple Gall Maker, Holly Bud Moth, Holly Leafminer, Jackpine Budworm, Japanese Beetle, Jeffrey Pine Needleminer, June Beetle, Lace Bug, Leafhopper, Leafroller, Locust Borer, Mealy Bug, Mimosa Webworm, Nantucket Pine Tip Moth, Oak Leafminer, 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 Bug, Poinsettia Hornworm, Psyllids, Puss Caterpillar, Redhumped Oakworm, Rose Aphid, Rose Chaler, Roseslug, Saddled Prominent, Sawfly (exposed), Scale Insects, Sowbug, Spiny Elm Caterpillar, Springtail, Spruce Budworm, Spruce Needleminer, Subtropical Pine Tip Moth, Tent Caterpillar, Thorn Bug, Thrips (exposed), Ticks, Walnut Caterpillar, Webworm, Western Hemlock Looper, Western Spruce Budworm, Willow Leaf Beetle, Yellow Poplar Weevil	1	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. Addition of a sticker may improve residual control.
	Ips Engraver Beetle, 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 June or prior to beetle attack. Treat tree trunks from ground level up until trunk diameter is less than 6 inches.

### LAWNS AND RECREATIONAL AREAS

CROP	INSECT	SPECIFIC CONTROL
Lawns and Recreational Areas (including turf, golf courses and parks)	Ants, Armyworm, Bluegrass Billbug, Centipede, Chigger, Cutworm, Earwig, Essex Skipper, European Chafer, Fall Armyworm, Flary Skipper, Flea, Grasshopper, June Beetle, Leafhopper, Lucerne Moth, Millipede, Sod Webworm (Lawn Moth), Sowbug, Springtail, Tick, Yellow-Striped Armyworm	Use 1 quart of SEVIN 4L 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 applications may be used. Repeat 2 to 3 weeks later if necessary.
	Chinch Bug, White Grub	Use 1 1/2 quarts of SEVIN 4L in 150 to 200 gallons of spray per 5000 square feet.

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**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 4L per gallon of water, where rates of 1 quart are indicated.

For aerial application 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 SEVIN 4L	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 Tbs./gal)	<b>ADULT MOSQUITOES</b> DO NOT USE WHERE SHRIMP AND CRABS 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 evening. Repeat at 7 to 10 day intervals. Use 1/2 to 1 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 of surface area. Repeat in 3 to 6 months or when necessary.

**PEST CONTROL AROUND BUILDINGS**

INSECT	QUARTS SEVIN 4L / 100 GAL	SPECIFIC DIRECTIONS
Ante Cockroaches	20 (17 Tbs./Gal)	For external use around buildings only. Do not treat animals. Apply as a coarse wet spray or with a paint brush to outdoor sleeping quarters of pets, outside perimeter of dwellings and other areas where insects tend to congregate.
Brown Dog Tick Earwig Fleas Millipede Silverfish	10 (7 Tbs./Gal)	Do not use where edible products are exposed, being prepared, processed or served. Avoid application to surfaces where visible spray residues are objectionable.

**POULTRY ROOSTS AND BUILDINGS ONLY**

POULTRY QUARTERS	QUARTS SEVIN 4L / 100 GAL	SPECIFIC DIRECTIONS
Bed Bug 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 contamination of nests, eggs and feeding and watering troughs.
Fowl Tick	16	Ventilate while spraying. Do not treat premises within 7 days of slaughter.
Lesser Mealworm	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. Do not use this product in commercial food areas of food handling establishments, restaurants, or other places where food is prepared or processed.