

GROUP	1A	INSECTICIDE
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SEVIN BRAND 50W

CARBARYL INSECTICIDE WETTABLE POWDER

For control of insect pests on forage, field, cereal, vegetable,
tobacco and fruit crops, ornamentals, lawns, poultry and livestock

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING



REGISTRATION NO. 6839 PEST CONTROL PRODUCTS ACT

GUARANTEE:

Carbaryl.....50% by wt.

Tessengerlo Kerley, Inc.
2255 North 44th Street, Suite 300
Phoenix, Arizona □ 85008-3279 USA
1-800-525-2803

NET CONTENTS: 13 Kg

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

HARMFUL IF INHALED OR SWALLOWED. Avoid breathing of Dust or Spray Mist.

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.

AVOID CONTAMINATION OF FOOD, FEED, WATER SUPPLIES, STREAMS AND PONDS.

DO NOT APPLY BY AIR

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS.

This product is highly toxic to bees exposed to direct treatment or residue on crops. Do not use when value of honeybees as pollinators is more important than insect control.

Before applying, warn beekeepers to locate hives beyond bee flight range until one week after application or to take other equally effective precautions.

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 BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER 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.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca

FIRST AID:

In case of contact with skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. □ □

□ In case of contact with eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If swallowed, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

NOTE FOR PHYSICIAN: SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM opiates, or cholinesterase inhibiting drugs.

STORAGE AND DISPOSAL:

Do not reuse empty container. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unusable for further use. Do not burn container. Dispose of the container in accordance with local, municipal and provincial requirements. For information on the disposal of unused, unwanted product,

contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills. If container is damaged and/or contents spilled, contact the manufacturer for instructions. Wear protective clothing, approved respirator and impervious gloves before handling spills or damaged product. For spills, do not allow product to spread. Prevent entry into ditches and waterways. Cover spill with sweeping compound and place contaminated material into an approved waste container. Place damaged container into waste containers and mark with contents.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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NATURE OF RESTRICTION:

This product is to be used only in the manner authorized; consult provincial regulatory authorities about use permits which may be required.

RESTRICTED USE:

For use to control small infestations of mountain pine beetle in lodgepole pine forest stands.

Monitor stand in the period mid-June to mid-July to determine which trees are infested. Apply 1 treatment to infested trees more than 3 weeks prior to the expected beetle emergence in order to kill the merging adult beetles.

Mix 1 kilogram of SEVIN 50W in 25 litres of water (40 kilograms in 1000 litres of water) to make a spray mixture containing 2% active ingredient by weight.

Apply one litre of spray per square metre of bark using a backpack hand held or suitable hydraulic ground sprayer. Treat boles from ground level up to a height of at least three metres or until bole diameter is less than 12.5 centimetres in diameter.

LIMITATIONS: Consult provincial regulations and obtain all necessary permits and applicator certificates prior to making applications for mountain pine beetle control.

To be used only on 'trap trees' (standing, dying or dead), which are not to be harvested.

Avoid spraying when conditions favour drift from spray target.

SEVIN 50W is a microfine powder for dispersion in water and application as an insecticidal spray in low or high volume ground equipment. **READ THE LABEL. USE IN STRICT ACCORDANCE WITH DIRECTIONS AND CAUTIONS.**

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

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PLANT RESPONSE PRECAUTIONS:

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DIRECTIONS FOR USE:

IMPORTANT: The directions on this label are based on tests and field experience relating to (a) effectiveness and (b) possible injury to plants and animals; and c) residues in food, meat and milk. Follow directions for most effective use.

SPRAY PREPARATIONS:

Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush away 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 50W, and then the remaining volume of water. Prepare only as much spray mixture as is needed on the day of mixing.

MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURES OVERNIGHT.

COMPATIBILITY:

1. SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER has been effectively used without plant injury with most common insecticides, miticides, fungicides, nutrients, adjuvants and with petroleum oil as used on citrus.
2. Compatibility can be affected by water in your locality, various surfactants and other formulation ingredients. Possible plant injury may occur under adverse conditions such as high humidity, drought, improper fertilization, etc.
3. Do not mix SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER with nutrients, adjuvants and other pesticides unless your experience indicates that the mixture is effective and will not result in plant injury. If uncertain, prepare a small amount of the mixture and test on a representative portion on the crop.
4. Compatible with petroleum oil as used on citrus. Do not use with summer oils on deciduous fruits.
5. Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime, lime sulfur and casein-lime spreaders.

IMPORTANT PRE-HARVEST AND GRAZING USE INFORMATION AND LIMITATIONS:

Tolerances established under the Food & Drug Act permit the sale of crops bearing portable SEVIN® BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER residues when SEVIN® BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER is used in accordance with label directions. Pre-harvest and grazing use limitations are listed at the end of the directions for each crop use. Where no pre-harvest or grazing time limitations are stated, application can be made to the day of harvest and crops can be grazed without time delay if directions for use on the crop are followed. If SEVIN® BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER is used in accordance with label directions, forage and feed crops, including bean vines, carrot tops, hay, pea vines and sugar beet tops, may be grazed

or harvested for use as feed for dairy and meat animals without resulting in illegal residues in milk or meat.

INSECT CONTROL:

Apply when insects or their damage appears. To maintain control repeat at 7 to 10 day intervals or as necessary unless a shorter interval is specified below. Where 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 50W does not control spider mites. If spider mites are a problem, use registered miticide.

RESISTANCE MANAGEMENT

For resistance management, this is a Group 1A insecticide. Any insect population may contain individuals naturally resistant to this product and other Group 1 insecticides. The resistant biotypes may dominate the insect population if these insecticides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of this product with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.
- Contact the local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for the specific site and pest problems in the area.
- For further information or to report suspected resistance, contact Tessenlerlo Kerley Inc. at 1-515-201-2649.

FORAGE, FIELD, CEREAL, VEGETABLE AND TOBACCO CROPS

Suggested dosages refer to kilograms of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per hectare. Use at least 28 litres of finished spray per hectare for concentrate ground application.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Alfalfa Barley Clover Oats Rye Wheat	Cereal leaf beetle	2.25	0 (Alfalfa & Clover)	Remove cattle from area when spraying. Apply when insects or their damage appears. Repeat in 7 to 14 days if necessary. For cereal leaf beetle: treatment is effective against eggs, larvae and adults when applied at 7 to 14 day intervals. For alfalfa weevil larvae: if pre-treatment damage is extensive, cut and make application to stubble. For climbing cutworms: apply SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER in at least 565 litres per hectare.
	Alfalfa weevil larvae	3.25		
	Blister beetles Leafhoppers Flee beetles Three cornered alfalfa hopper	2.25 to 3.25	14 (oats, rye & wheat 28 (barley)	
	Alfalfa caterpillar Army worm Cutworms (climbing) Sweet clover weevil Webworms	2.25 to 4.5		
	Grasshoppers	1.1 to 2.25		

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Asparagus (seedlings, spears)	Asparagus beetle Cutworms (climbing)	2.25 to 4.5	1	Apply as a spray in sufficient water for full coverage. Apply when insects or their damage appear. Use the lower rate on young plants. Repeat at intervals of 7 to 10 days or as necessary. Do not treat more than once every 3 days.
Asparagus (ferns)	Asparagus beetle	4.5 to 9.0	Post harvest only	Apply for full coverage in post-harvest period. Apply when insects or their damage appear. Repeat in 7 to 10 intervals. Do not apply more than once every 3 days.
Beans	Mexican bean beetle	1.1 to 1.4	3	Apply in 225-280 litres per hectare. Use lower rate on young plants. Apply for full coverage when insects or damage appear. Repeat at intervals of 7 to 10 days or as necessary. Apply when insects or their damage appear. Use at least 220 to 350 litres of water per hectare. Spray in 25 to 30 centimetre band over row.
	Flea beetles, Leafhoppers	2.25		
	Lygus bugs, Stink bugs	4.5		
	Cutworms (climbing)	27.5g to 32.5g per 100 metres of row		

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Beets, Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Celery, Chinese cabbage, Collards Dandelion, Endive, Horseradish, Kale, Kohlrabi, Lettuce, Mustard greens, Parsley, Parsnip, Radish, Rutabaga, Salsify, Spinach, Swiss chard, Turnip, Watercress	Flea beetles, Leafhoppers Armyworms, Cabbage looper Corn earworm, Diamondback moth (larvae), Imported cabbageworm, Lygus bugs, Meadow spittlebug, Stink bugs	1.1 to 2.25 2.25 to 4.5	1 (carrots) 3 (broccoli, brussels sprouts, cabbage, cauliflower, celery, head lettuce & kohlrabi) 7 (beet roots, horseradish, radish, rutabaga roots, salsify and turnip roots) 14 (beet tops, Chinese cabbage, dandelion, colliards, endive, kale, leaf, lettuce, mustard greens, parsley, parsnip, salsify tops, spinach, swiss chard, turnip tops & watercress)	Spray in sufficient water for full coverage. Use the lower rate on young plants. Apply when insects or damage appear. Repeat at intervals of 7 to 10 days or as necessary. Apply for full coverage beginning when insects or their damage appear. Repeat treatment at intervals of 7 to 10 days. For cabbage loopers, repeat treatments on a 5 to 7 day schedule. If cabbage loopers are the principal problem, use an alternative insecticide after heads begin to form. To avoid possible injury on lettuce, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	Six spotted leafhopper	2.25 to 3.25		Apply for full coverage on a 5 to 7 day schedule.
Corn (field & sweet)	Corn earworm, European corn borer Fall armyworm Northern corn rootworm (adults)	2.25 to 3.25	1	For larvae in whorls and for foliage feeders, treat the entire plant. Repeat as necessary. For insects attacking silks and ears, apply at intervals of 2 to 4 days starting when first silks appear and continuing until silks begin to dry. Three or more applications may be required depending on the severity of the infestation. Timing and good coverage are essential for effective control.
	Cereal leaf beetle	2.25		Consult local spray guide for specific instructions.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	Cutworms (climbing)	42.5 grams per 100 metres of row		Apply when insects or their damage appear. Use at least 220 to 350 litres of water per hectare. Spray in 25 to 30 centimetre band over row.
Cucumber Melons Pumpkin Squash	Cucumber beetle, Cutworms (climbing), Flea beetle, Leafhoppers, Squash bug	2.25	3	Apply for thorough coverage when insects or damage appear. Repeat at intervals of 7 to 10 days or as necessary. To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next two days.
Peas	Alfalfa looper	4.5	3	Apply for thorough coverage when insects or damage appear. Repeat at intervals of 7- 10 days or as necessary.
Potato Tomato Eggplant Pepper	Colorado potato beetle	1.1	1 (eggplant, pepper and tomato) 7 (potato)	Apply for full coverage when insects or damage appear. Repeat at intervals of 7 to 10 days or as necessary.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	European corn borer Fall armyworm Tomato hornworm Tomato fruitworm	2.25 to 4.5		
	Stink bugs, Tarnished plant bug	4.5		
	Leafhoppers Potato flea beetle	2.25		
	Cutworms (climbing)	425 grams per 100 metres of row		
Snapbeans Common (including green beans, wax beans)	European corn borer	4.5	3	Apply after blossom when egg laying for second brood of corn borer begins. Repeat if needed at 7-day intervals. Use at least 200-250 litres of water per hectare. Careful monitoring for eggs is essential for determining optimum time for spray treatment.
Tobacco	Tobacco flea beetle	125 grams in 29 litres spray volume per 100 sq. metres	0	IN PLANT BEDS: Apply when insects or damage appear.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	Cutworms	4.5		POST-PLANT TREATMENT: Apply in a 25 cm band over the row as a foliage spray.
	Flea beetles, Hornworms, Tobacco budworm	1.75 to 2.25		IN FIELDS: Use 500 to 1100 litres spray volume per hectare. Use lower rate on young plants. Full coverage is essential. Begin treatment when larvae are small. Repeat as needed. Avoid excessive application in bud of plant as injury may result. If late applications are necessary, allow 3 days before priming or cutting.

TREE FRUIT CROPS

Recommended dosages refer to kilograms of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 500 litres of water for diluted sprays to be applied for full coverage. Spray volume will vary according to tree size, density and stage of growth. With concentrated spray, where lower volumes of spray are applied per hectare, the concentration of SEVIN® BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER should be increased in the spray mixture so that the amount of SEVIN® BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER applied per hectare is equivalent to full coverage diluted spray. Keep spray mixtures well agitated. Do not exceed maximum label rate.

CROP	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apple thinning	0.25 to 5.0	1	<p>Apply in one full coverage spray timed between 10 to 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set, favour excessive fruit thinning with SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER, exercise caution to avoid possible yield reduction.</p> <p>For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap and Yellow Newton.</p>
Apple Only	0.5 to 1.0	1	<p>For difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.</p>

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apple Pear	Apple leafhopper Apple leafroller, Codling moth, Eyespotted bud moth, Mealybug, Redbanded leafroller (1st brood)	0.5	7	To avoid undesired apple thinning, delay use until at least 30 days after full bloom.
	Apple maggot, Eastern tent caterpillar, Fruittree leafroller, Green fruitworm, Lecanium scale, Oystershell scale, Pearleaf blister mite, Pear psylla, Pear slug, Pistol casebearer, Plum curculio, Redbanded leafroller (2nd brood), Rust mites, San Jose scale, Tarnished plant bug, Tentform leafminer, Woolly apple aphid	1.0	7	Apply for full coverage as directed in your Provincial Spray Calendar. For optimum scale control, apply when crawlers are present. For psylla control, apply when eggs hatch or when young nymphs are present. For optimum maggot control, apply at 10-day intervals.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apricots Peaches	Cat-facing insects, Codling moth, European earwig European fruit lecanium, Fruittree leafroller, Lesser peachtree borer, Oriental fruit moth, Peach silver mite, Peach twig borer, Plum curculio, Redbanded leafroller, Scale insects	1.0	3 (apricots) 1 (peaches)	Apply for full coverage in normal spray schedules. For lesser peachtree borer, spray limbs and trunk thoroughly. For scale insects, apply when crawlers are present.
Cherries Plums Prunes	Codling moth, Eastern tent caterpillar, Oak leafhopper, Prune leafhopper	0.50 to 0.75	1	Apply for full coverage in normal spray schedules. For scale insects, apply when crawlers are present.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
	Apple maggot, Black cherry aphid, Cherry fruitfly, Cherry fruitworm, Eyespotted bud moth, Fruittree leafroller, Lesser peachtree borer, Mealy plum aphid, Peach twig borer, Plum curculio, Redbanded leafroller, Scale insects	1.0		For lesser peachtree borer, thoroughly spray limbs and trunk area.

SMALL FRUIT CROPS

Suggested dosages refer to kilograms of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per hectare. The optimum spray volume will depend on plant size, density and stage of growth. Typical spray volumes per hectare range from 900-2800 litres for dilute sprays and 280-900 litres for concentrate sprays. Do not exceed maximum label rate per hectare per application.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Boysenberries Dewberries	Blackberry leafminer, Japanese beetle, Leafhoppers, Leafrollers,	4.5	7	Use 1100 to 2250 litres spray volume per hectare. Apply when insects or damage appear. Repeat at intervals of 7 to 10 days

CROP	INSECT	KILOGRAMS OF SEVIN 50W/ 500 LITRES	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Loganberries Raspberries	Rose stem girdler, Spotted-winged Raspberry aphid			or as necessary.
Blueberries	Blueberry maggot, Cranberry fruitworm, Lecanium scale	3.25	1	Use 1400 to 1700 litres spray volume per hectare. Apply 3 weeks before harvest and repeat in 10 days or as necessary.
Cranberries	Blunt-nosed cranberry leafhopper, Cranberry fruitworm, Cutworms (climbing), Fireworms	6.25 to 6.75	1	Use 3400 litres spray volume per hectare. Apply during late bloom. Repeat as necessary at intervals of 7 to 10 days.
Grapes	Grape berry moth Leafhoppers	4.5	3	Use 2550 litres spray volume per hectare. Apply for full coverage when insects or damage appear. Follow local government recommendations for proper timing.
Strawberries	Meadow spittlebug Strawberry leafroller	2.25 to 4.5	1	Use 1100 to 2250 litres spray volume per hectare. Apply when insects or damage appear. Repeat at intervals of 7 to 10 days or as necessary

TREES AND ORNAMENTALS:

For dilute-spray ground applications to trees, ornamentals, woody plants and shrubs, apply the specified dosage per 500 litres of water. For concentrate-spray ground applications, apply the specified dosage per hectare in sufficient spray volume to provide thorough coverage. To prepare small volumes of spray, use 10 grams of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 5 litres of water where rates of 1 kilogram per 500 litres are indicated.

CROP	INSECT	KILOGRAMS OF SEVIN 50W/500 LITRES	SPECIFIC DIRECTIONS
Arborvitae Azalea, Birch, Boxwood, Carnation Chrysanthemum, Dogwood Elm Gladiolus, Holly Hydrangea Juniper, Lilac, Maple, Oak Pines, Rose Zinnia	Bagworm, Birch leafminer, Blackvine weevil (Taxus weevil), Blister beetles, Boxelder bug, Boxwood leafminers, Cankerworms, Elm leaf aphid, Elm leaf beetle, Flea beetles, Japanese beetles, June beetles, Lace bugs, Leafhoppers, Leafrollers, Mealybugs, Pine sawflies, Plantbugs, Psyllids, Rose aphid, Rose chafer, Rose slug, Scale insects, Tent caterpillars, Thrips (exposed), Willow leaf beetle	1.0 to 1.5	Spray in the early morning or evening. Repeat at intervals of 7 to 14 days. For scale insects, apply when crawlers are present. Some leaf injury may occur if treatments are made when tender foliage is wet or in the presence of prolonged high humidity. Do not use on Boston Ivy, Maidenhair Fern or Virginia Creeper.

Balsam fir Spruce (for Christmas tree plantation) Farm woodlots Municipal Parks* Rights-of-way	Spruce budworm	0.55 to 1.1	Apply when most of the larvae are in the 4th instar. For mistblower application, adjust the concentration to give an equivalent of active ingredient per hectare.
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* National and Provincial parks not included.

MOUNTAIN PINE BEETLE CONTROL:

For use on high value trees in urban and rural areas. To prepare small volumes of spray, use 1 kg of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER in 25 litres of water to make a spray mixture containing 2% active ingredient by weight.

KILOGRAMS OF SEVIN 50W/1000 LITRES OF WATER	SPECIFIC DIRECTIONS
40	Effective as a preventive treatment only. Repeat annually as required to prevent beetle attacks. Avoid spraying when conditions favor drift from spray area. Apply one (1) L of spray per one (1) square metre of bark in late May to early July or prior to beetle attack. Treat trunks from ground level up to until trunk diameter is less than 12.5 centimetres.

LAWNS AND RECREATIONAL AREAS:

CROP	INSECT	SPECIFIC DIRECTIONS
Turf (ornamental and sports)	Ants Chinch bugs Cutworms (climbing) Earwigs Fall army worm Fleas Leafhoppers Millipedes Mosquitoes Sod wetworms	Apply 200 grams of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER in 150 to 200 litres spray volume per 100 square metres of turf. Mow lawn and apply spray. Do not water for 2 days after treatment. Repeat in 2 to 3 weeks if necessary.

POULTRY INSECT CONTROL:

POULTRY	INSECT	SPECIFIC DIRECTIONS
Chickens, Ducks, Geese, Partridges, Pheasants, Pigeons, Turkeys	Lice, Northern fowl mite and as a supplement to premises treatment for chicken mite, fleas, fowl tick	Use 1.0 kilogram of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 100 litres of water. Apply 4.5 litres of spray per 100 birds. Do not apply to poultry within 7 days of slaughter.

POULTRY ROOSTS AND BUILDINGS:

POULTRY QUARTERS	INSECT	SPECIFIC DIRECTIONS
Roosts and Buildings	Bed bugs, Fleas, Chicken mites	Use 1.0 kilogram of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 100 litres of water. Apply 5 to 10 litres of spray per 100 m ² of wall, litter or roost surface. Force spray into cracks and crevices. Repeat as needed. Do not apply to poultry or poultry nest litter within 7 days before slaughter. Avoid contamination of eggs, feed and water troughs. Ventilate during treatment.
	Fowl ticks	Use 4.0 kilograms of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 100 litres of water. Apply 5 to 10 litres of spray per 100 m ² of wall, litter or roost surface. Force spray into cracks and crevices. Repeat as needed. Do not apply to poultry or poultry nest litter within 7 days before slaughter. Avoid contamination of nests, eggs, feed and water troughs. Ventilate during treatment.
	Lesser mealworm	Use 1.25 kilograms of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER per 100 litres of water and apply to 100 m ² of floor space. In broiler houses, repeat after each hatch of birds. Do not apply to poultry or poultry nest litter within 7 days before slaughter. Avoid contamination of nests, eggs, feed and water troughs. Ventilate during treatment.

LIVESTOCK INSECT CONTROL:

LIVESTOCK	INSECT	SPECIFIC DIRECTIONS
Beef cattle Goats Hogs Horses Sheep	Fleas, Hornfly, Lice, Winter ticks	Mix 1.0 kilogram of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER in 100 litres water (0.5% water suspension). Apply thoroughly to entire animal at rate of 4.5 litres of finished spray per head. Repeat as necessary, but not more often than twice weekly. For lice repeat at intervals of 14 to 18 days. Do not apply to livestock within 7 days before slaughter.
Dairy cattle	Fleas, Hornfly, Lice, Winter ticks	Mix 1.0 kilogram of SEVIN BRAND 50W CARBARYL INSECTICIDE WETTABLE POWDER in 100 litres water (0.5% water suspension). Apply carefully along topline, sides and legs. Avoid direct application to underline and udder. Repeat if necessary, but not more often than twice weekly. Do not apply before milking. Wash udder thoroughly before milking. Do not contaminate milking utensils. Do not apply to livestock within 7 days before slaughter.

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