

2001/2002

RHONE-POULENC
SEVIN 85S
CARBARYL INSECTICIDE
SPRAYABLE POWDER
COMMERCIAL

For Control of Insect Pests on Forage, Field,
Cereal Vegetable, Tobacco and Fruit Crops,
Ornamentals, Lawns, Poultry and Livestock

GUARANTEE: CARBARYL.....85% by wt.

REGISTRATION NUMBER: 7446 PEST CONTROL PRODUCTS ACT

WARNING POISON

READ THE LABEL BEFORE USING

RHONE-POULENC CANADA INC.
2000 ARGENTIA ROAD, PLAZA 3
MISSISSAUGA, ONTARIO L5N 1V9

IN CASE OF SPILLS, POISONING OR FIRE
TELEPHONE EMERGENCY RESPONSE NUMBER COLLECT
(416) 634-2359 (24 HOURS A DAY)

CONTENTS 2.5 KG

SEVIN 85S sprayable is a microfine powder for dispersion in water and application as an insecticidal spray in hydraulic sprayers, mist blowers, low-volume ground equipment and airplanes. READ THIS LABEL. USE IN STRICT ACCORDANCE WITH DIRECTIONS AND CAUTIONS.

PRECAUTIONARY STATEMENTS

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.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS. This product

is highly toxic to bees exposed to direct treatment or residues 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 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.

FIRST AID INSTRUCTIONS

Flush skin and eye contact with water. If swallowed, induce vomiting at once. If in eyes get medical attention. Contact a physician immediately. Get to a physician as quickly as possible.

TOXICOLOGICAL INFORMATION

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

STORAGE

Store unused SEVIN 85S in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 38'C.

DISPOSAL

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank. 2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. 3. Make the container unsuitable for further use. 4. Dispose of the container in accordance with provincial requirements. 5. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the regional office of Environmental Protection, Environment Canada.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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 © residues in food, meat and milk. Follow directions for most effective use.

Spray Preparation for Low Volume Ground Equipment: Use 50-mesh or coarser screens in entire system. Add about 75% of the required water volume to the spray tank. Close off booms, start pump and maintain moderate by-pass agitation while slowly adding the proper amount of SEVIN 85 Sprayable. Add remaining water and continue to recirculate until suspension is uniform. Use clean equipment and apply using at least 35 liters per hectare of the prepared spray. After spraying, flush tank and lines with clear water.

RESTRICTED USE

For Aircraft Application: For preparing spray in mixing or storage tank, follow above directions. To maintain uniform suspension, recirculate at intervals and before pumping into aircraft tank. For best results use clean equipment and apply 11 to 35 liters per hectare of the prepared spray. After spraying, flush tanks and line with clear water.

NOTE - This product is to be used only in the manner authorized. Provincial and Federal regulations are in effect.

Combination Spray Mixtures in Low Volume Equipment and Airplanes: Physical compatibility of SEVIN 85 Sprayable with spray formulations of other pesticides in low-gallonage mixtures is not fully known. Before preparing large amounts, combinations should be tested by fully dispersing SEVIN 85 Sprayable, then adding the other pesticide and the remaining portion of water. **DO NOT USE MIXTURES THAT CURDLE OR PRECIPITATE.** Incompatibility will reduce insect control and may cause mechanical difficulties or plant injury. Observe all cautions and limitations on labelling of all products used in mixtures.

Compatibility:

1. SEVIN 85S 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 85S 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 of 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 sulfur and casein-lime spreaders.

IMPORTANT PRE-HARVEST AND GRAZING USE INFORMATION AND LIMITATIONS:

Tolerances established under the Food & Drugs Act permit the sale of crops bearing probable SEVIN residues when SEVIN 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, 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. Remove cattle from area while spraying.

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 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 85S does not control spider mites. If spider mites are a problem, use a registered miticide.

TREE FRUIT CROPS

For dilute sprays apply the specified dosage per 1000 liters of water. For concentrate and aerial sprays increase the concentration of SEVIN 855 in the spray mixture to apply an amount per hectare equivalent to that in a dilute spray. The optimum spray volume will depend on tree size, density and stage of growth. Typical spray volumes per hectare range from 1850-2800 liters for dilute sprays, 280-900 liters for concentrate sprays and 90-225 liters for aerial sprays. Keep spray mixtures well agitated. Do not exceed maximum label rate per hectare per application.

CROP	KILOGRAMS OF "SEVIN" 85S/1000 LITERS	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
APPLE THINNING			Apply in one full-coverage spray timed 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, exercise caution to avoid possible yield reduction.
Apples Only	0.3 to 0.60	1	For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, and Yellow Newton.
	0.60 to 1.25	1	For difficult to thin varieties including Baldwin, Ben Davis, duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.

CROP	INSECT	KILOGRAMS OF "SEVIN" 85S/1000 LITERS	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apple Pears	Apple leafhopper Apple leafroller Codling moth Eyespotted bud moth Mealybug Redbanded leafroller (1st brood)	600g	7	To avoid undesired apple thinning, delay use until at least 30 days after full bloom.

	<p>Apple maggot Eastern tent caterpillar Fruittree leafroller Green fruitworm Lecanium scale Oystershell scale Pearleaf blister mite Pear psylla Pear slug Pistol casebearer Plum curculio Redband leafroller (2nd brood) Rust mites San Jose scale Tarnished plant bug Tentiform leafminer Wooly apple aphid</p>	1.25	7	<p>Apply for full coverage as directed in your provincial spray calendar.</p> <p>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.</p>
<p>Apricots Peaches</p>	<p>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</p>	1.25	<p>3 (apricots) 1 (peaches)</p>	<p>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.</p>

Cherries Plums Prunes	Codling moth Eastern tent caterpillar Oak leafhopper Prune leafhopper	1.0	1	Apply for full coverage in normal spray schedules. For scale insects apply when crawlers are present. For lesser peachtree borer thoroughly spray limbs and trunk area.
	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	1.25		

SMALL FRUIT CROPS

Suggested dosages refer to litres of SEVIN 85S 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 liters for dilute sprays, 280-900 liters for concentrate sprays and 90-225 liters for aerial sprays. Do not exceed maximum label rate per hectare per application.

CROP	INSECT	KILOGRAMS OF "SEVIN" 85S/ HECTARE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Boysenberries Dewberries Loganberries Raspberries	Blackberry leafminer Japanese beetle Leafhoppers Leafrollers Rose stem girdler Spottedwinged raspberry aphid	2.75	7	Use 1100 to 2200 liters spray volume per hectare. Apply when insects or their damage appears. Repeat at intervals of 7 to 10 days as necessary.

Blueberries	Blueberry maggot Cranberry fruitworm Lecanium scale	1.8	1	Use 1400 to 1700 litres spray volume per hectare. Apply 3 weeks before harvest and repeat in 10 days or as necessary.
Cranberries	Bluntnosed cranberry leafhopper Cranberry fruitworm Cutworms (climbing) Fireworms	3.0 to 4.0	1	Use 3500 liters spray volume per hectare. Apply during late bloom. Repeat as necessary at intervals of 7 to 10 days.
Grapes	Grape berry moth Leafhoppers	2.75	3	Use 2200 liters spray volume per hectare. Apply for full coverage when insects or damage appears. Follow local government recommendations for proper timing.
Strawberries	Meadow spittlebug Strawberry leafroller	1.25 to 2.75	1	Use 1100 to 2200 liters spray volume per hectare. Apply when insects or damage appears. Repeat at intervals of 7 to 10 days or as necessary.

VEGETABLE, TOBACCO, FORAGE,
FIELD AND CEREAL CROPS

Suggested dosages refer to kilograms of SEVIN 85S per hectare. Use at least 28 liters of finished spray per hectare for concentrate ground application. To prepare small volume of spray, use 26 milligrams of SEVIN 85S per 5 liters of water where rates of 1.25 kilograms per hectare are indicated in the table below.

CROP	INSECT	KILOGRAMS OF "SEVIN" 85S/ HECTARE	PRE- HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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<p>Corn (Field & Sweet)</p>	<p>Corn earworm European corn borer Fall armyworm Northern corn rootworm (adults)</p>	<p>1.25 to 2.0</p>	<p>1</p>	<p>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 applicatio ns may be required depending on the severity of the infestatio n. Timing and good coverage are essential for effective control.</p>
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	Cereal leaf beetle	1.25		Consult local spray guide for specific instructions.
	Cutworms (climbing)	27.5 grams per 100 meter row		Apply when insects or their damage appears. Use at least 220-300 liters of water per hectare. Spray in 25 to 30 centimeter band over row.
Potato Tomato Eggplant Pepper	Colorado potato beetle	675 grams	1 (eggplant, pepper & tomato)	Apply for full coverage when insects or their damage appears. Repeat at intervals of 7 to 10 days or as necessary.
	European Corn borer Fall armyworm Tomato hornworm Tomato fruitworm	1.25 to 2.75	7 (potato)	
	Stink bug Tarnished plant bug	2.75		

	Leafhoppers Potato flea beetle	1.25		
Potato Tomato Eggplant Pepper	cutworms (climbing)	27.5 grams per 100 meter row	1 (eggplant, pepper & tomato)	Apply when insects or their damage appears. Use at least 225 to 275 liters of water per hectare. Spray in 25 to 30 centimeter band over the row.
			7 potato	
Beans	Mexican bean beetle	6.75		Apply in 225-280 liters per hectare. Use lower rate on young plants.
	Flea beetles Leafhoppers	1.25	3	Apply for full coverage when insects or their damage appears. Repeat at intervals of 7 to 10 days or as necessary.
	Lygus bugs Stink bugs	2.75		

	Cutworms (climbing)	17.5-22.5 grams per 100 meter row		Apply when insects or their damage appears. Use at least 220 to 300 liters of water per hectare. Spray in 25 to 30 centimeter band over row.
Cucumber Melons Pumpkin Squash	Cucumber beetles Cutworms (climbing) Flea beetle Leafhoppers Squash bug	1.25	3	Apply for thorough coverage when insects or their damage appears. 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.

Asparagus (seedlings, spears)	Asparagus beetle Cutworms (climbing)	1.25-2.75	1	Apply as a spray in sufficient water for full coverage. Apply when insects or their damage appears. Use the lower rate on young plants. Repeat at intervals of 7 to 10 days or as necessary. Do not treat more often than once every three days.
Asparagus (Ferns)	Asparagus beetle	2.75-5.5	1	Apply for full coverage in post-harve st period. Apply when insects or their damage appears. Repeat in 7 to 10 day intervals. Do not apply more than once every 3 days.

Peas	Alfalfa looper	2.75-5.5	3	Apply for thorough coverage when insects or damage appears. Repeat at intervals of 7 to 10 days or as necessary.
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	0.675-1.75	1 (carrots) 3 (broccoli, brussels sprouts, cabbage, cauliflower celery, head lettuce & kohlrabi)	Spray in sufficient water for full coverage. Use the lower rate on young plants. Apply when insects or their cabbage damage appears. Repeat at intervals of 7 to 10 days or as necessary.

	<p>Armyworms Cabbage looper Corn earworm Diamondback moth (larvae) Imported cabbageworm Lygus bugs Meadow Spittlebug Stink bugs</p>	<p>1.25-2.75</p>	<p>7 (beet roots horseradish radish, rutabaga roots, salsify & turnip root)</p>	<p>Apply for full coverage beginning when insects or their damage appears. 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.</p>
			<p>14 (beet tops chinese cabbage dandelion collards endive kale leaf lettuce mustard greens parsley parsnip salsify tops spinach swiss chard turnip top water cress)</p>	

				To avoid possible injury on lettuce, do not apply when foliage is wet or when rain or excessive humidity is expected during the next two days.
	Six spotted leafhopper	2.25-3.25		Apply for full coverage on a 5 to 7 day schedule.
Tobacco	Tobacco Flea beetle	77.5 grams in 29 liters spray volume per 100 sq. meters		IN PLANT BEDS. Apply when insects or their damage appears.

	Cutworms	1.25	0	IN FIELDS Mix 1.25 kilograms of SEVIN 85S with 27.5 kilograms of bran. Spread at the rate of 22.5-27.5 kilograms of bait per hectare. POST-PLANT TREATMENT. Apply in a 25 centimeter band over the row as a foliage spray.
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	Flea beetles Hornworms Tobacco bedworm	1.1-1.25		IN FIELDS Use 550 to 1100 liters 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 applicatio n in bud of plants, as injury may result. If late applicatio ns are necessary allow 3 days before priming or cutting.
Alfalfa Barley Clover Oats Rye Wheat	Cereal leaf beetle	1.25	0 (alfalfa & clover)	

	<p>Alfalfa weevil larvae</p>	<p>2.0</p>	<p>Remove cattle from area while 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 85S in at least 550 liters per hectare.</p>
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	Blister beetles Flea beetles Leafhoppers Three cornered alfalfa hopper	1.25-2.0	14 (barley, oats, rye and wheat)
	Alfalfa caterpillar Armyworm Cutworms (climbing) Sweet clover weevil Webworms	1.25-2.75	
	Grasshoppers	0.675-1.25	

LIVESTOCK INSECT CONTROL

LIVESTOCK	INSECT	SPECIFIC DIRECTIONS
Beef cattle Goats Hogs Horses Sheep	Fleas Hornfly Lice Winter Tick	Mix 6.0 kilograms SEVIN 85S liters water (0.5% water suspension). Apply thoroughly to entire animal at rate of 4.5 liters 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 Horn fly Lice Winter tick	Mix 6.0 kilograms SEVIN 85S in 1000 liters 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.

POULTRY INSECT CONTROL

POULTRY	INSECT	SPECIFIC DIRECTIONS
Chickens Ducks Geese Partridges Pheasants Pigeons Turkeys	Lice Northern fowl mite.	Use 650 g of SEVIN 85S per 100 liters of water. Apply 4.5 liters of spray per 100 birds.
	And as a supplement to premise treatment for chicken mite, fleas, fowl tick.	Do not apply to poultry within 7 days before slaughter.

POULTRY QUARTERS	INSECT	SPECIFIC DIRECTIONS
Roosts and Buildings	Bed bugs Fleas Chicken mite	Use 650 of SEVIN 85S per 100 liters of water. Apply 5 to 10 liters of spray per 100 square meters of wall, litter or roost surface. Force 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 2.4 kilograms of SEVIN 85S per 100 liters of water. Apply 5 to 10 liters of spray per 100 square meters of wall, litter and 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 nest, eggs, feed and water troughs. Ventilate during treatment.

	Lesser mealworm	Use 750 g of SEVIN 85S per 100 liters of water and apply to 100 square meters of floor space. In broiler houses, repeat after each batch 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.
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TREES AND ORNAMENTALS

For dilute-spray ground applications to trees, ornamentals woody plants and shrubs, apply the specified dosage per 1000 liters 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 6 grams of SEVIN 85S per 5 liters of water where rates of 1.25 litres are indicated.

CROP	INSECT	KILOGRAMS OF "SEVIN" 85S/1000 LITERS	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 beetle June beetles Lace bugs Leafhoppers Leafrollers Mealybugs Pine sawflies Plant bugs Psyllids Rose aphid Rose chafer Rose slug Scale insects Tent caterpillars Thrips (exposed) Willow leaf beetle	1.25-1.75	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 plantations) Farm woodlots, Municipal Parks,* Rights-of-way	Spruce budworm	600g to 1.2kg	Apply when most of the larvae are in the 4th instar. For mistblower applications, adjust the concentration to give an equivalent of active ingredient per hectare.

*National and provincial parks not included.

LAWNS AND RECREATIONAL AREAS

CROP	INSECT	SPECIFIC DIRECTIONS
Turf (Ornamental and Sports)	Ants Chinch bugs Cutworms (climbing) Earwigs Fall armyworm Fleas Leafhoppers Millipedes Mosquitoes Sod webworms	Apply 125 g of SEVIN 85S in 150 to 200 liters spray volume per 100 square meters of turf. Mow lawn and apply spray. Do not water for 2 days after treatment. Repeat in 2 to 3 weeks if necessary.

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