



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Karen Salsbury
Bonide Products, Inc.
2 Wurz Avenue
Yorkville, NY 13495

APR 10 2000

Subject: Liquid Sevin Brand Carbaryl Insecticide
EPA Registration No. 4-237
Amendment dated November 22, 1999
Resubmission in response to EPA Letter dated 14 October
1999 for label amendments as per the Carbaryl GDE.

Dear Ms. Salsbury:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. On page 2 under the heading "User Safety Requirements" change the last 3 words in the last sentence from "dust has settled" to "sprays have dried" since this is a liquid formulation.

A stamped copy of the labeling is enclosed for your records. Submit two copies of your final printed labeling before you release the product for shipment.

Sincerely,
George Tompkins
George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

**Liquid SEVIN
Brand Carbaryl Insecticide**



(picture)

**FOR USE ON ORNAMENTAL PLANTS,
FLOWERS, SHRUBS, SHADE TREES,
VEGETABLES**

**Kills
Leafhoppers
Aphids
Millipedes
Moths
& other listed insects**

**For Use On
Lawns, Trees,
& Gardens**

EPA Est. No. 4-NY-1

EPA Reg. No. 4-237

ACTIVE INGREDIENT

Carbaryl: (1-naphthyl-N-methylcarbamate).....22.5%

INERT INGREDIENTS.....77.5%

Sevin is a registered trademark of Rhone-Poulenc for Carbaryl insecticide.

Contains 2 pounds Carbaryl per gallon.

CAUTION- KEEP OUT OF REACH OF CHILDREN
See back panel for additional precautionary statements.

NET CONTENTS

ACCREDITED
with COMMENTS
In EPA Label dated:

APR 10 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
4-237

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SEVIN LIQUID

Insect Control for listed Fruits, Vegetables,
Flowers, Trees, Shrubs, and lawns.

EPA Est. No. 4-NY-1 (1), 769-GA-1 (2), 55179-IN-1 (3), 44616-MO-1 (4),
Reg. No. 4-237

The last digit in the lot number indicates EPA Establishment location.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See inside panel for additional Precautionary Statements

Buyers Guarantee limited to label claims

Manufactured by
BONIDE PRODUCTS, INC.
Yorkville, NY 13495

Do not repeat application more than once a week.

USER SAFETY REQUIREMENTS

Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when applying this product.

Change clothing as soon as possible after use.

Wash the outside of gloves before removing. As with any pesticide product, wash hands thoroughly immediately after handling and before eating, smoking, or using the toilet.

Do not allow children or pets to contact the treated area until dust has settled.

ADULT MOSQUITO CONTROL- For optimum control apply in early morning or evening when air is a calm and adult mosquito is active. Use 4 teaspoons per gallon water in hand sprayers for treating backyards or other limited areas. Thoroughly cover lower shade tree foliage, shrubbery, flower beds, grass and shaded area around buildings where adult mosquitoes congregate. Do not apply to water. Repeat at 7 to 10 day intervals or as necessary. Sevin injures Boston ivy. Do not use on this ornamental.

BONIDE SEVIN LIQUID is extremely fine dispersion of Sevin in water. A dilute spray of SEVIN LIQUID is tenacious and quick-setting, giving an adhesive residue to plants on partial drying. Sevin is compatible with commonly used insecticides, such as malathion and other organic phosphates and botanicals; also such fungicides as fixed copper dithiocarbamates, Sulphur, Captan, Cyprex, Glyodin and Phaltan. Sevin does not control spider mites, but is compatible with common miticides. Sevin is unstable under highly alkaline conditions. Do not use with lime, Bordeaux, lime sulphur, casein-lime spreaders, or other alkaline materials.

DIRECTIONS FOR USE- It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

BEFORE USING SHAKE OR STIR WELL. Pour recommended amount of this material into nearly filled sprayer. Add balance of water. Maintain agitation during spraying and filling operations. Do not allow mixture to stand.

Apply when air is calm to avoid drift and contact with eyes and skin.

Start spraying at the farthest corner of the treatment area and work backward to avoid contact with wet surfaces. Allow spray to dry in treated areas before reentering.

For trees taller than 10 feet, consider hiring a licensed professional.

Spray thoroughly to wet upper and lower leaf surfaces, stems, and branches.

FRUIT	INSECTS	WHEN TO APPLY	AMOUNT
APPLES, PEARS	Apple Mealybug, codling moth, green Apple aphid, white apple leafhopper Aphids (rosy apple, wooly apple), apple Maggot, bagworm, eastern tent caterpillar, European apple sawfly, eye-spotted bud Moth, fruit tree leaf roller, green fruit-Worm, Japanese beetle, mites (apple rust, Pear leaf blister, pear rust) pear psyllis, Periodical cicada, plum curculio red-Banded leaf roller, scales, (Forbes, Lecanium, Oyster shell, San Jose), Tarnished plant bug, tentiform leaf miners	Make first application before green tips of leaves appear. Repeat at 10 day intervals. Do not spray for thirty days from start of bloom or thinning may occur. Resume Spraying at 14 day intervals. PHI= 3 days	1 tsp./1 qt. Water
		May cause foliar injury if used before second cover on York and Macintosh apples. PHI= 3 days	2 tsp./1 qt. Water
	Apple Thinning	Easily thinned varieties- Apply in one spray timed between 10 and 25 days after full bloom, to fully cover tree. Hard to thin varieties- apply as above	1/2 to 1 tsp./gal. water
APRICOTS, NECTARINES	Codling moth, cucumber beetle, European earwig, fruit tree leaf roller, Japanese Beetle, June beetle, lesser peach tree borer, periodical cicada, planota flavenda, plum curculio, red-banded leaf roller, scales (Lecanium, Olive, San Jose), tarnished plant bug, tussock moth	Make first application when insects appear or damage is observed. Repeat no more than once a week. For optimum scale control apply when crawlers are present. For lesser peach tree borer control, spray limbs and trunk thoroughly, weekly during moth flight. PHI= 3 days	1 to 2 tsp./gal. water 2 tsp./qt. Water
BLACKBERRIES, DEWBERRIES BOYSENBERRIES	Japanese beetle, raspberry aphid	Apply as to thoroughly cover both upper and lower leaves of plants. Do not apply within 7 days of harvest.	4 tsp. / qt. water
BLUEBERRIES	Blueberry maggot, European fruit lecanium, fruitworms (cherry, cranberry), Japanese beetle	Apply 3 weeks before harvest. PHI= 7 days	3 to 4 tsp. water
CHERRIES, PLUMS, PRUNES	Aphids (black cherry, mealy plum), cherry Fruit fly, cherry fruitworm, eye-spotted Bud moth, fruit tree leaf roller, Japanese Beetle, lesser peach tree borer, peach twig Borer, plum curclio, prune leafhopper, Redbanded leaf roller, scales (brown, soft Forbes, Lecanium, Oyster-shell, San Jose)	Start and repeat at 7-day intervals until bloom. PHI= 3 days	2 tsp./ qt. water
	Codling moth, eastern tent caterpillar, Orange tortix, tussock moth	For optimum scale control, apply when crawlers are present. For lesser peach tree borer control, spray limbs and trunks thoroughly, weekly during moth flight.	Use 1 to 2 tsp./qt. water
			Use 1 to 2 tsp./qt. water
CRANBERRIES	Cutworms, fireworms, fruitworms, Japanese beetle, leafhopper	Apply in late bloom. PHI= 7days	
GRAPES	European fruit lecanium, grape leaf skeletonizer	Apply just before first brood leaf folder larvae emerge from rolls. Apply no more than once a week. PHI= 7 days.	Use 1 to 2 tsp./qt. water
	Grape berry moth, Japanese beetle, June Beetle, red-banded leaf roller		2 tsp./ qt. water
STRAWBERRIES	Meadow spittlebug, strawberry leaf roller, Strawberry weevil	Retreatment interval = 7days Preharvest interval = 7 days	Use 1 to 2 tsp./qt. water

FIELD AND VEGETABLE CROPS	INSECTS	WHEN TO APPLY	AMOUNT
ASPARAGUS	Asparagus beetle	On seedlings or spears when insects or their damage appear or 3 days when applications are to spears. PHI=1 day	2 to 4 tsp./qt. water
	Asparagus,apache cicada beetle	On ferns and brush growth, use as a post harvest spray. . Retreatment interval=7 days when applied to ferns after harvest. PHI= 1 day	4 to 8 tsp. / qt. water
Beans (Green, lima, snap); Cowpea; Black-eyed Peas	Mexican bean beetle, flea beetle, leafhopper	Apply when insects or their damage appears. Retreatment interval = 7 days PIII=3 days (succulents), PIII=21 days (dried), PIII=14 days (forage), PIII= 21 days (hay).	1 to 2 tsp./ qt. water
	bean leaf beetle, cucumber beetle, Japanese beetle, velvet bean beetle, western bean cutworm	Retreatment interval = 7 days PIII=3 days (succulents), PIII=21 days (dried), PIII=14 days (forage), PIII= 21 days (hay)	2 tsp. /qt. water
	flea beetle, harlequin bug, leafhopper	Retreatment interval = 7 days PIII=3 days (succulents), PHI=21 days (dried), PHI=14 days (forage), PHI= 21 days (hay)	2 tsp. to 3 tsp./qt. water
Garden beets, carrots, radish, horseradish, parsnips, rutabaga, salisfy, turnips	flea beetle, harlequin bug, leafhopper	Apply on a 7-day schedule. PHI= 7 days	1 to 2 tsp./qt. water
	Six spotted leafhopper		2 to 3 tsp. /qt. water
	Armyworms, tarnished plant bug, imported cabbage worms, corn earworm, tarnished plant bug, stink bug		2 to 4 tsp. /qt. water
Lettuce, endive, dandelion, parsley, Swiss Chard	flea beetle, harlequin bug, leafhopper	Do not apply to lettuce when wet. Retreatment interval = 7 days	1 to 2 tsp./qt. water
	flea beetle, harlequin bug, leafhopper	PHI= 14 to 15 days	2 to 4 tsp. /qt. water
Brussel sprouts, broccoli, cabbage, cauliflower, Chinese cabbage, collards, kale, kohlrabi	flea beetle, harlequin bug	Apply on a 7 day schedule PIII=3 days (Brussel sprouts, broccoli, cabbage,kohlrabi) PIII=14 days (Chinese cabbage, kale, collards	1 to 2 tsp./qt. water
	armyworms, imported cabbage worm, cabbage lopper, corn earworm		2 to 4 tsp./qt. water
Corn (field and pop)	corn earworm, corn rootworm adults, European corn borer, fall armyworms, Japanese beetle, sap beetle	For larves in whorl (budworm damage) and foliage feeders, apply to entire plant. Retreatment interval = 14 days PIII= 14 days (forage, silage) PIII= 48 days (grain and fodder)	2 to 4 tsp./qt. water
	cutworms		4 tsp./qt. water
Corn (sweet)	corn earworm, corn rootworm adults, European corn borer, fall armyworms, Japanese beetle, sap beetle	For larves in whorl (budworm damage) and foliage feeders, apply to entire plant.Retreatment interval = 3 days) PHI= 2 days (ears) PHI= 14 days (forage) PHI= 48 days (fodder)	2 to 4 tsp./qt. water
	cutworms		4 tsp./qt. water
Cucumber , melon, squash, pumpkins	melonworm, pickleworm, cucumber beetle, squash bug, flea beetle, leafhopper	Apply when insects or their damage appear. Retreatment interval = 7 days. PIII= 3 days Do not apply when foliage is wet .	1 to 2 tsp.\ qt. water
Potato	Colorado potato beetle, flea beetle, leafhopper	Apply when insects or their damage appear. Retreatment interval = 7 days. PIII= 7 days	1 to 2 tsp. \ qt. water

PRECAUTIONARY STATEMENTS- HAZARDS TO HUMANS AND DOMESTIC ANIMALS- CAUTION

Harmful if swallowed: Avoid breathing spray or mist. Do not take internally. Avoid contact with skin, eyes, or clothing. In case of contact and before eating, and smoking, wash thoroughly with warm water and soap.

USER SAFETY REQUIREMENTS

Wear long-sleeved shirt, pants, shoes plus socks and household latex or rubber gloves when mixing and applying this product. Wear a hat and eye protection when making overhead applications. Remove clothing immediately if pesticide soaks clothing. Change clothing as soon as possible after use. Wash the outside of gloves before removing. As with any pesticide product wash hands thoroughly immediately after handling and before eating, smoking or using the toilet. Avoid contamination of food and feed. Note to physician: Carbaryl is a moderate, reversible Cholinesterase inhibitor. Atropine is antidotal.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Induce vomiting and seek medical attention immediately.

IF IN EYES OR ON SKIN: Flush eyes with plenty of water. Wash skin thoroughly with soap and water.

NOTE TO PHYSICIAN: Carbaryl is a moderate, Reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates, or cholinesterase inhibiting drugs. **ENVIRONMENTAL HAZARDS-**This product is toxic to fish, shrimp, and crabs. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Extension Service.

STORAGE AND DISPOSAL: Do not store near or contaminate feed or foodstuffs. Do not use, pour, spill, or store near heat, or open flame. Store in a cool, dry area accessible to children and pets. **DISPOSAL:** Do not reuse empty container. Wrap container and put in trash collection.

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PHI= Preharvest Interval

Tomato, pepper, eggplant	fall armyworms, lace bugs, tarnished plant bug, tomato fruitworm, tomato hornworm,	Apply when insects or their damage appear. Retreatment interval = 7 days. PHI= 3 days	2 to 4 tsp./qt. water
	cutworms		4 tsp./qt. water
Mustard greens	flea beetle, harlequin bug, leafhopper	Retreatment interval = 7 days PHI= 13 to 14 days	1 to 2 tsp./qt. water
	flea beetle, harlequin bug, leafhopper		2 to 4 tsp. /qt. water