



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

SEP 25 2003

Rebecca M. Horton  
Consultant and Agent for Bonide Products Inc.  
913 Dominion Lane  
Salem, Virginia 24153-5630

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment: 2001-1 First Aid and Storage and Disposal  
Liquid Sevin Brand Carbaryl Insecticide  
EPA Reg. No. 4-237  
Submission dated June 25, 2003

Dear Ms. Horton:

The revised labeling referenced above, submitted in connection with the registration under the Federal Insecticide, fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable with the following comments:

- 1) Add "For Residential Use only" under the product name.
- 2) Revise the Precautionary Statements to read "Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.
- 3) The Note to Physician should be updated to read "Contains N-methyl carbamate insecticide which is a cholinesterase inhibitor. Specific antidote consists of atropine. Narcotics and other sedatives should not be used. Drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended." You may want to list the NPIC emergency number below the First Aid statement. You may want a separate Note to Veterinarian from the Note to Physician.
- 4) You should explain the term PHI for use by non professionals.

A stamped copy "accepted with comments" of the label is enclosed for your records. Please submit two (2) copies of the final printed before shipment. If you have any questions please call me at (703) 308-8328.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Akiva Abramovitch".

Akiva Abramovitch, Ph.D.  
Insecticide-Rodenticide Branch  
Registration Division (7505C)



# LIQUID SEVIN® BRAND CARBARYL INSECTICIDE

[Additional Brand Names: Bonide® Sevin® 2 Flowable Insecticide; Sevin® Insect Control Concentrate]

Optional Marketing Statements:

For Use on Ornamental Plants, Flowers, Shrubs, Shade Trees, Vegetables  
Kills Leafhoppers, Aphids, Millipedes, Moths & Other Listed Insects  
For Use on Lawns, Trees, & Gardens  
Insect Control for Listed Fruits, Vegetables, Flowers, Trees, Shrubs and Lawns

**ACTIVE INGREDIENT:**

Carbaryl (CAS # 63-25-2) ..... 22.5%

**OTHER INGREDIENTS:**..... 77.5%

**TOTAL**..... 100.0%

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

Contains 2 pounds Carbaryl per gallon.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
SEP 25 2003**

**KEEP OUT OF REACH OF CHILDREN**

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

## CAUTION

See back/side/other panel(s) for additional precautionary statements.

**NET CONTENTS:** \_\_\_\_\_

EPA Reg. No. 4-237

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

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

[Back/side/other panel(s) and/or booklet]

### DIRECTIONS FOR USE

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

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 sprays have dried.

BONIDE® SEVIN LIQUID is an 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, Sulfur, 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 sulfur, casein-lime spreaders, or other alkaline materials.

**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.

**ADULT MOSQUITO CONTROL** – For optimum control apply in early morning or evening when air is calm and adult mosquitoes are 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.

## PHI = Preharvest Interval

FRUIT	INSECTS	WHEN TO APPLY	AMOUNT
APPLES, PEARS	Apple mealybug, codling moth, green apple aphid, white apple leafhopper	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.  May cause foliar injury if used before second cover on York and Macintosh apples. PHI = 3 days	1 tsp./1 qt. water
	Aphids (rosy apple, wooly apple), apple maggot, bagworm, eastern tent caterpillar, European apple sawfly, eye-spotted bud moth, fruit tree leaf roller, green fruitworm, Japanese beetle, mites (apple rust, pear leaf blister, pear rust), pear psyllus, periodical cicada, plum curculio, red-banded leaf roller, scales (Forbes, Lecanium, Oyster shell, San Jose), tarnished plant bug, tentiform leaf miners		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.	½ to 1 tsp./gal. water  1 to 2 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, platnota 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	2 tsp./qt. water
BLACKBERRIES, DEWBERRIES, BOYSENBERRIES	Japanese beetle, raspberry aphid	Apply 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./qt. water

<b>CHERRIES, PLUMS, PRUNES</b>	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 curculio, 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.  For optimum scale control, apply when crawlers are present. For lesser peach tree borer control, spray limbs and trunks thoroughly, weekly during moth flight.	2 tsp./qt. water
	Codling moth, eastern tent caterpillar, orange tortrix, tussock moth		1 to 2 tsp./qt. water
<b>CRANBERRIES</b>	Cutworms, fireworms, fruitworms, Japanese beetle, leafhopper	Apply in late bloom. PHI = 7 days	1 to 2 tsp./qt. water
<b>GRAPES</b>	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	1 to 2 tsp./qt. water
	Grape berry moth, Japanese beetle, June beetle, red-banded leaf roller		2 tsp./qt. water
<b>STRAWBERRIES</b>	Meadow spittlebug, strawberry leaf roller, Strawberry weevil	Retreatment interval = 7 days. Preharvest interval = 7 days	Use 1 to 2 tsp./qt. water.

PHI = Preharvest Interval

FIELD AND VEGETABLE CROPS	INSECTS	WHEN TO APPLY	AMOUNT
Asparagus	Asparagus beetle	On seedlings or spears when insects or their damage appear. Retreatment interval 7 days when applications are to spears. PHI = 1 day	2 to 4 tsp./qt. water
	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. PHI = 3 days (succulents), PHI = 21 days (dried), PHI = 14 days (forage), PHI = 21 days (hay)	1 to 2 tsp./qt. water
	bean leaf beetle, cucumber beetle, Japanese beetle, velvet bean beetle, western bean cutworm		2 tsp./qt. water
	flea beetle, harlequin bug, leafhopper		2 to 3 tsp./qt. water

Garden beets, carrots, radish, horseradish, parsnips, rutabaga, salsify, 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, stink bug		2 to 4 tsp./qt. water
Lettuce, endive, dandelion, parsley, Swiss chard, mustard greens	flea beetle, harlequin bug, leafhopper	Do not apply to lettuce when wet. Retreatment interval = 7 days. PHI = 14 to 15 days	1 to 2 tsp./qt. water
	armyworms, tarnished plant bug, imported cabbage worms, corn earworm, stink bug		2 to 4 tsp./qt. water
Brussels sprouts, broccoli, cabbage, cauliflower, Chinese cabbage, collards, kale, kohlrabi	flea beetle, harlequin bug	Apply on a 7 day schedule. PHI = 3 days (Brussels sprouts, broccoli, cabbage kohlrabi). PHI = 14 days (Chinese cabbage, kale, collards).	1 to 2 tsp./qt. water
	armyworms, imported cabbage worm, cabbage looper, 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 larvae in whorl (budworm damage) and foliage feeders, apply to entire plant. Retreatment interval = 14 days. PHI = 14 days (forage, silage). PHI = 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 larvae 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. PHI = 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. PHI = 7 days.	1 to 2 tsp./qt. water
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

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Telecommunications Network at 1-800-858-7378 for emergency medical treatment information.	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN:</b> Carbaryl is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates or cholinesterase-inhibiting drugs.	

### 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.

**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 equipment washwaters. 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**

**Storage:** Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

**Disposal:** *If empty* – Do not reuse this container. Place in trash or offer for recycling if available. *If partly filled* – Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents, call the National Pesticide Telecommunications Network at 1-800-858-7378.

**Buyer's Guarantee Limited to Label Claims**

Manufactured by:

Bonide Products, Inc.

Oriskany, NY 13424

EPA Reg. No. 4-237

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

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

6/25/03 – amendment

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