



Reg # 46515-36

7/11/97

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

JUL 11 1997

Bradley M. Kollath  
Celex  
Division of United Industries Corp.  
P.O. Box 15842  
St. Louis, MO 63114-0842

Subject: K-Gro Sevin Brand Liquid  
EPA Reg. No. 46515-36  
Amendment to add verbiage inadvertently left off label  
submitted on 12/20/96  
Response to Agency letter dated 3/17/97

Dear Mr. Kollath:

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 of 4 under the Trees and Ornamental Plants heading, section dealing with [Pests][Insects]; please change the Leafrollers (Birch, Oak) to Leafminers (Birch, Oak) as per the 1992 label.

2). On page 2 of 4 under the Lawns heading, section dealing with [Pests][Insects]: This heading should only read [Pests] and have the word [Insects] deleted as several of the pests listed under this heading are not insects (i.e. centipedes, chiggers, ticks, millipedes, sowbugs).

3). On page 3 of 4 in the (TABLE FORMAT) under the section LAWNS at the top of the table remove the word [Insects] after the heading [Pests][Insects] in the column at the left of the page and also from the top of the column on the right side of the page for the same reason as 2) above.

Submit one copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

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



# Sevin® brand Liquid

[For use on flowers, vegetables,  
fruits, lawns, shrubs and ornamentals  
• Waterbased]

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JUL 11 1997

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

46515-36

Active Ingredients:	
*Carbaryl: 1-naphthyl N-methylcarbamate	2(3%)
Inert Ingredients:	78.7%
[Total	100.0%]

Contains two pounds Carbaryl per gallon. \*Sevin is a registered trademark of Rhône-Poulenc for carbaryl insecticides.

Keep Out Of Reach Of Children

**CAUTION** See back panel for additional precautionary statements.

NET CONTENTS 1 QT.

[This product provides broad spectrum insect control on vegetables, fruits and nuts]

[Read entire label.] [ Stop. Read entire label before use. ]  
[IMPORTANT: To avoid damage or poor results, carefully read and follow all directions and precautionary statements.]

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For use around the home only.

#### OPTION A - [For Use With Ready-Spray Nozzle] (PARAGRAPH FORMAT)

[HOW TO USE:] [Shake bottle well before using.] Keep spray solution well mixed during use by shaking the sprayer often. Treat when insects or their damage first appear. Apply when air is calm to avoid drift and contact with eyes and skin. Start at the farthest corner of area to be treated and work backward to avoid contact with wet surfaces. Thoroughly wet both upper and lower leaf surfaces, stems and branches. Apply as a full cover foliar treatment, thoroughly spraying all parts of the plant. Allow spray to dry in treated areas before returning. For best results, treat every 7 - 10 days. Do not apply more than once a week. For trees taller than 10 feet, consider hiring a licensed professional.

#### [USING THE READY-SPRAY NOZZLE]

Shake bottle well before using. Keep spray solution well mixed during use by shaking the sprayer often. Connect a garden hose to the ready spray nozzle. Make sure the black water control dial on the nozzle is in the "OFF" position (tab is vertical). Turn on water faucet. Extend hose to the farthest area to be treated and work back towards faucet so that you do not walk over treated areas. Twist the small, star shaped black product control button to align the flat portion with the lock tab. Push the button in to open.

To BEGIN spraying, point nozzle towards the area to be treated and turn the black water control dial to the "ON" position (tab is horizontal). Water will automatically mix with the product. Walk at a steady pace while spraying using an even sweeping motion. Refer to site gauge on bottle to determine amount of product being applied.

To STOP spraying turn the black water control dial to the "OFF" position. Push the small, black product control button back in to close. Twist the small, star shaped black product control button so that it is no longer aligned with the flat portion of the lock tab. Turn off the water at the faucet. To relieve pressure, turn the black water control dial to the "ON" position until water stops spraying before removing the nozzle from the hose.

To STORE unused product, place in a cool area away from heat, direct sunlight or open flame and out of reach of children or pets.

### (NUMBERED FORMAT)

#### HOW TO USE

1. Keep spray solution well mixed during use by shaking the sprayer often.
2. Apply when air is calm to avoid drift and contact with eyes and skin. Start at the farthest corner of area to be treated and work backward to avoid contact with wet surfaces.
3. Thoroughly wet both upper and lower leaf surfaces, stems and branches. Apply as a full cover foliar treatment, thoroughly spraying all parts of the plant.
4. Allow spray to dry in treated areas before returning.

#### USE TIPS

1. Treat when insects or their damage first appear.
2. For best results, treat every 7 - 10 days. Do not apply more than once a week.
3. For trees taller than 10 feet, consider hiring a licensed professional.

#### USING THE READY-SPRAY NOZZLE

1. Shake bottle well before using. Keep spray solution well mixed during use by shaking the sprayer often.
2. Connect a garden hose to the ready spray nozzle. Make sure the black water control dial on the nozzle is in the "OFF" position (tab is vertical).
3. Turn on water faucet. Extend hose to the farthest area to be treated and work back towards faucet so that you do not walk over treated areas. Twist the small, star shaped black product control button to align the flat portion with the lock tab. Push the button in to open.
4. To BEGIN spraying, point nozzle towards the area to be treated and turn the black water control dial to the "ON" position (tab is horizontal). Water will automatically mix with the product. Walk at a steady pace while spraying using an even sweeping motion. Refer to site gauge on bottle to determine amount of product being applied.
5. To STOP spraying turn the black water control dial to the "OFF" position. Push the small, black product control button back in to close. Twist the small, star shaped black product control button so that it is no longer aligned with the flat portion of the lock tab. Turn off the water at the faucet. To relieve pressure, turn the black water control dial to the "ON" position until water stops spraying before removing the nozzle from the hose.
6. To STORE unused product, place in a cool area away from heat, direct sunlight or open flame and out of reach of children or pets.

#### OPTION B - [For Use With Hose-end, Pressure or Power Sprayers] (PARAGRAPH FORMAT)

Shake bottle well before using. This product may be applied with a hose-end sprayer, pressure sprayer or power sprayer. Keep spray solution well mixed during use by shaking the sprayer often. Treat when insects or their damage

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first appear. Apply when air is calm to avoid drift and contact with eyes and skin. Start at the farthest corner of area to be treated and work backward to avoid contact with wet surfaces. Thoroughly wet both upper and lower leaf surfaces, stems and branches. Allow spray to dry in treated areas before returning. For best results, treat every 7 - 10 days. Do not apply more than once a week. For trees taller than 10 feet, consider hiring a licensed professional.

**[MEASUREMENT CONVERSION:]**

[NOTE:] 3 teaspoons = 1 tablespoon; 2 tablespoons = 1 fl. oz.

**(NUMBERED FORMAT)**

**HOW TO USE**

1. Shake bottle well before using.
2. Apply when air is calm to avoid drift and contact with eyes and skin. Start at the farthest corner of area to be treated and work backward to avoid contact with wet surfaces.
3. Thoroughly wet both upper and lower leaf surfaces, stems and branches.
4. Allow spray to dry in treated areas before returning.

**USE TIPS**

1. Treat when insects or their damage first appear.
2. For best results, treat every 7 - 10 days. Do not apply more than once a week.
3. For trees taller than 10 feet, consider hiring a licensed professional.

**USER SAFETY REQUIREMENTS**

- Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when 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 the 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 people or pets to contact treated areas until sprays have dried.

**(PARAGRAPH FORMAT)**

**VEGETABLES**

Observe stated time intervals between last application and harvest. The number in ( ) indicates the number of days to wait between last application of this product and harvest.  
[For Option B only: Apply at the rate of 4 teaspoons per gallon of water.]

BEANS (Dried, Green, Lima, Navy), CARROTS, CORN, CUCUMBER, EGGPLANT, MELONS, OKRA, PEAS (Blackeyed), PEPPERS, POTATO, PUMPKIN, SQUASH, TOMATO: (0)

BEETS, BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, LETTUCE (Head), PEAS, RADISHES, RUTABAGAS, TURNIPS (Roots): (3)

BEETS (Tops), CHINESE CABBAGE, COLLARDS, ENDIVE (Escarole), KALE, LETTUCE (Leaf), MUSTARD GREENS, PARSLEY, SPINACH, SWISS CHARD: (14)

[PESTS] [INSECTS]: Armyworms (including Fall), Beetles (Bean leaf, Blister, Colorado potato, Cucumber, Flea, Mexican bean), Cutworms (including Western bean), Harlequin bugs, Imported cabbageworms, Chinch bugs, Lace bugs, Leafhoppers, Lygus bug, Melonworms, Pickleworms, Spittlebugs, Squash bugs, Tarnished plant bugs, Thrips, Tomato hornworms, Tomato pinworms, Velvetbean caterpillars, Webworms

**FRUIT & NUTS**

Observe stated time intervals between last application and harvest. The number in ( ) indicates the number of days to wait between last application of this product and harvest. Spray until plants just begin to drip [For Option B only: Apply at the rate of 4 teaspoons per gallon of water.]

PECANS, WALNUTS: (0)

BLUEBERRIES, FILBERTS, APPLE\*, CHERRIES, PEACHES, PEARS, PLUMS: (1) \*To avoid undesired apple thinning, delay use until at least 30 days after full bloom.

APRICOTS, NECTARINES: (3)

GRAPEFRUIT; LEMONS; LIMES; ORANGES, TANGELOS, TANGERINES, KUMQUATS: (5)

BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES; GRAPES: (7)

[PESTS] [INSECTS]: Aphids (Apple), Bagworms, Beetles (Cucumber), Borers (Lesser peachtree, Peach twig), Cherry fruit worms, Codling moths, Cutworms, Eastern tent caterpillar, Fall webworms, Grape leafhoppers, Leafrollers (including Fruitree, Omnivorous), Maggots (Apple, Cherry), Mealybug (Apple), Mites (Apple rust), Pear psylla, Pecan weevils, Plum curculio, Rose chafers, Scales (Black, Brown soft, California red, Calico, Citricola, Forbes, Oystershell, San Jose), Tarnished plant bugs, Western grapeleaf skeletonizers

**Trees and Ornamental Plants**

For best results, spray upper and lower leaf surfaces, stems, twigs and trunk (spray until runoff). Use 4 teaspoon per gallon of water.

TREES, ROSES, FLOWERS, SHRUBS

[PESTS] [INSECTS]: Ants, Aphids (Elm leaf, Rose), Armyworms (Fall), Bagworms, Beetles (Blister, Elm leaf, Flea, Japanese), Boxelder bugs, Budworms (Spruce, Western spruce), Cankerworms, Catalpa Sphinx, Chiggers, Cutworms, Gall adelgids (Cooley spruce, Eastern spruce), Gall midges, Gall wasp, Moths (European pine shoot, Gypsy, Holly budmoth), Lace bugs, Leafhoppers, Leafrollers (Birch, Oak), Leafrollers, Locust borers, Mealybugs, Oak leaf skeletonizers, Orange loirix, Periodical cicada, Plant bugs, Psyllids, Rose chafers, Roselugs, Sawflies (Exposed, Pine), Scale insects, Sowbugs, Springtails, Tent caterpillars, Thrips (exposed), Ticks, Webworms (including Mimosa)

**Lawns**

For best results, mow lawn before application; apply after rainfall or watering. For grub control, water thoroughly after application.

[PESTS] [INSECTS]:

Ants, Armyworms (including Fall), Centipedes, Chiggers, Cutworms, Earwigs, European chafers, Grasshoppers, Green June beetles, Millipedes, Mosquitoes (adults), Sowbugs, Springtails, Ticks - Apply 16 fl. oz. per 3,000 sq. ft.  
Chinch bugs, Sod webworms, Bluegrass billbugs, European cane flies, Fleas, White grub (Japanese beetle, Chafers beetle, Phyllophaga spp. larvae) - Apply 16 fl. oz. per 1,350 sq. ft.

For imported fire ants, apply a total of 2 gallons of diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about 3 ft. to give sufficient force to break mound apex and flow into ant tunnels. For best results apply in cool weather, 65 to 80° F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness. Use 6 teaspoon per gallon of water.

**Adult Mosquito Control**

Apply in early morning or late evening when mosquitoes are most active. Treat ornamentals, woody plants, shrubs and other areas where mosquitoes are found. Repeat at 7 to 10 day intervals. Use 3 to 6 teaspoons per gallon of water.

**Pest Control Around Homes**

Thoroughly spray around the perimeter of the dwelling to control Brown dog ticks, Earwigs, Millipedes and Silverfishes. Use 7 ounces per gallon of water.

**Control of Ticks Which Transmit Lyme Disease**

For control of juvenile and adult Ixodes spp. Ticks (Deer, Bear, Black legged).

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and *Amblyomma* spp. Ticks (Lone star), use 6 teaspoons per gallon of water. Begin application in late spring or early summer (May/June). Thoroughly treat entire lawn, perimeter wooded areas and property boundaries including shrub beds, ornamental planting and wooded areas where exposure to ticks may occur. Re-treat at 3 to 4 week intervals since ticks may be reintroduced from surrounding areas by animals.

(TABLE FORMAT)

LAWNS		
[PESTS] [INSECTS]	HOW TO USE	APPLY
Ants, Armyworms (including Fall), Centipedes, Chiggers, Cutworms, Earwigs, European chafers, Grasshoppers, Green June beetles, Millipedes, Mosquitoes (adults), Sowbugs, Springtails, Ticks	For best results, mow lawn before application; apply after rainfall or watering. For grub control, water thoroughly after application.	16 fl. oz. per 3,000 sq. ft.
Chinch bugs, Sod webworms, Bluegrass billbugs, European cane flies, Fleas, White grub (Japanese beetle, Chafer beetle, Phyllophaga spp. larvae)		16 fl. oz. per 1,350 sq. ft.
Imported fire ants	Apply a total of 2 gallons of diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about 3 ft. to give sufficient force to break mound apex and flow into ant tunnels. For best results apply in cool weather, 65 to 80° F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.	Use 6 teaspoon per gallon of water.
Adult Mosquito Control	Apply in early morning or late evening when mosquitoes are most active. Treat ornamentals, woody plants, shrubs and other areas where mosquitoes are found. Repeat at 7 to 10 day intervals.	Use 3 to 6 teaspoons per gallon of water.

[PESTS] [INSECTS]	HOW TO USE	APPLY
Pest Control Around Homes	Thoroughly spray around the perimeter of the dwelling to control brown dog ticks, earwigs, millipedes and silverfishes.	Use 7 ounces per gallon of water.
Control of Ticks Which Transmit Lyme Disease	For control of juvenile and adult ixodes spp. ticks (Deer, Bear, Black legged) and <i>Amblyomma</i> spp. ticks (Lone star). Begin application in late spring or early summer (May/June). Thoroughly treat entire lawn, perimeter wooded areas and property boundaries including shrub beds, ornamental planting and wooded areas where exposure to ticks may occur. Re-treat at 3 to 4 week intervals since ticks may be reintroduced from surrounding areas by animals.	Use 6 teaspoons per gallon of water.

[VEGETABLES]

Number of Days to Wait Between Last Application and Harvest					
VEGETABLE	PHI*	VEGETABLE	PHI*	VEGETABLE	PHI*
Beans (Dried)	0	Collard	14	Peas (Blackeyed)	0
Beans (Green)	0	Corn	0	Peppers	0
Beans (Lima)	0	Cucumbers	0	Potatoes	0
Beans (Navy)	0	Eggplant	0	Pumpkins	0
Beans (Snap)	0	Endive (Escarole)	14	Radishes	3
Beets	3	Kale	14	Rutabagas	3
Beets (Tops)	14	Lettuce (Head)	3	Spinach	14
Broccoli	3	Lettuce (Leaf)	14	Squash	0
Brussels Sprouts	3	Melons	0	Swiss Chard	14
Cabbage	3	Mustard Greens	14	Tomatoes	0
Cauliflower	3	Okra	0	Turnips (Root)	3
Carrots	0	Parsley	14	*PHI = Pre-Harvest Interval.	
Chinese Cabbage	14	Peas	3		

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VEGETABLE	[GARDEN PEST] [INSECTS]	FOR OPTION B ONLY
Beans (Dried, Green, Lima, Navy, Snap), Beets, Blackeyed Peas, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Carrots, Chinese-Cabbage, Collards, Corn, Cucumber, Eggplant, Endive (Escarole), Kale, Lettuce, Melons, Mustard Greens, Okra, Parsley, Peas, Peppers, Potato, Pumpkin, Radishes, Rutabagas, Spinach, Squash, Swiss Chard, Tomato, Turnips (Roots) —	Armyworms (including Fall), Beetles (Bean leaf, Blister, Colorado potato, Cucumber, Flea, Mexican bean), Cutworms (including Western bean), Harlequin bugs, Imported cabbageworms, Chinch bugs, Lace bugs, Leafhoppers, Lygus bug, Melonworms, Pickleworms, Spittlebugs, Squash bugs, Tarnished plant bugs, thrips, Tomato hornworms, Tomato pinworms, Velvetbean caterpillars, Webworms	Apply at the rate of 4 teaspoons per gallon of water.

FRUIT & NUTS	[GARDEN PEST] [INSECTS]	FOR OPTION B ONLY
Apple*, Apricots, Blueberries, Blackberries, Boysenberries, Cherries, Dewberries, Filberts, Grapes, Grapefruit, Kumquats, Lemons, Limes, Loganberries, Nectarines, Oranges, Peaches, Pears, Pecans, Plums, Raspberries, Tangelos, Tangerines, Walnuts	Aphids (Apple), Bagworms, Beetles (Cucumber), Borers (Lesser peachtree, Peach twig), Cherry fruit worms, Codling moths, Cutworms, Eastern tent caterpillar, Fall webworms, Grape leafhoppers, Leafrollers (including Fruitree, Omnivorous), Maggots (Apple, Cherry), Mealybug (Apple), Mites (Apple rust), Pear psylla, Pecan weevils, Plum curculio, Rose chafers, Scales (Black, Brown soft, California red, Calico, Citricola, Forbes, Oystershell, San Jose), Tarnished plant bugs, Western grapeleaf skeletonizers	Apply at the rate of 4 teaspoons per gallon of water.

[FRUITS & NUTS]

Number of Days to Wait Between Last Application and Harvest					
FRUIT & NUTS	PHI*	FRUIT & NUTS	PHI*	FRUIT & NUTS	PHI*
Apples	1	Grapefruit	5	Peaches	1
Apricots	3	Grapes	7	Pears	1
Blueberries	1	Kumquats	5	Pecans	0
Blackberries	7	Lemons	5	Plums	1
Boysenberries	7	Limes	5	Raspberries	7
Cherries	1	Loganberries	7	Tangelos	5
Dewberries	7	Nectarines	3	Tangerines	5
Filberts	1	Oranges	5	Walnuts	0

\*PHI = Pre-Harvest Interval.

\*To avoid undesired apple thinning, delay use until at least 30 days after full bloom.

**STORAGE AND DISPOSAL**

**Storage:** Store in original container in locked storage area inaccessible to children. **Disposal:** Do not reuse empty container. Securely wrap original container in several layers of newspaper and discard in trash.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling and before eating or smoking.

**Statement of Practical Treatment**

If Swallowed: Call a physician or Poison Control Center immediately. Give victim 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. If In Eyes: Flush eyes with plenty of water. If irritation persists get medical attention. If on Skin: Remove contaminated clothing and wash skin with plenty of 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 extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. 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.

**NOTICE:** Buyer assumes all responsibility for safety and use not in accordance with directions.

Questions or comments? Call [800-645-4957] [800-332-5553]

[Made in the USA for KMART Corporation, Troy, Michigan 48084]

[Distributed] [Made in the USA] by Colco, Division of United Industries Corporation, P. O. Box 15842, St. Louis, MO 63114-0842

EPA Reg. No.: 46515-36

EPA Est. Nos.: 9688-MO-1, 49585-MI-1 A, 769-GA-1 C, 42056-IL-1 E, 44616-MO-1 H, 42761-MS-1 N, 9591-OH-1 O Superscript used is first letter of lot number.

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