

8590-419

10-31-1997

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OCT 31 1997

Beverly Randall  
Universal Cooperatives, Inc.  
P.O. Box 460  
Minneapolis, MN 55440

Subject: Agway® Liquid Sevin® brand carbaryl insecticide 4F  
EPA Registration No. 8590-419  
Submission dated April 8, 1997  
Response to Agency letter dated March 20, 1997

Dear Ms. Randall:

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:

1. Make the following changes to your label:

- a) In the section labeled INSECT CONTROL, delete "...unless a shorter interval is specified below" from the second sentence.
- b) In the section labeled VEGETABLE CROPS, delete "...unless shorter interval is specified."
- c) In the Directions for Use on ASPARAGUS, delete the sentence "Do not apply more often than once every 3 days." The minimum application interval is now seven days.

d) In the Directions for Use on CARROTS, CHINESE CABBAGE, etc..., change "Use 2 to 3 tsp. on a 5 to 7 day schedule." to "Use 2 to 3 tsp. on a 7 day schedule." Also, change "use 4 tsp. on a 5 to 7 day schedule" to "use 4 tsp. on a 7 day schedule."

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e) In the Directions for Use on CORN, change "...apply at 2 to 3 day intervals..." to "...apply at 7 day intervals..."


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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,



 Tina E. Levine, Ph.D., Chief  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure

**AGWAY**

**Liquid SEVIN®\* brand carbaryl insecticide 4F**

Controls insects on Vegetables, Fruit, Trees, Lawns, Ornamentals and Flowers.  
**CONCENTRATED** — Contains over 40% active ingredient; twice as strong as other brands.

1 pt. makes up to 96 gallons of spray



**KEEP OUT OF REACH OF CHILDREN CAUTION**  
See additional precautionary statements on back panel.

Net Contents: 1 Pint (.47 liter)

<b>ACTIVE INGREDIENTS:</b>	
Carbaryl (1-naphthyl N-methylcarbamate)	42.8%
<b>INERT INGREDIENTS:</b>	57.2%
<b>Total</b>	<b>100.0%</b>

SEVIN® is the registered trademark of Rhone-Poulenc for carbaryl insecticide.  
EPA Reg. No. 8590-419 EPA Est. No. 1386-OH-1

**AGWAY®  
Liquid SEVIN®  
brand carbaryl insecticide 4F**

**SEE INSIDE FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE**

EPA Reg. No. 8590-419  
EPA Est. No. 1386-OH-1  
921359 AG



Manufactured For:  
Agway Inc.  
PO Box 4741  
Syracuse, NY 13221



SKU# 850-154

**ACCEPTED with COMMENTS in EPA Letter Dated**

OCT 31 1997

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

8590-419

DIRECTIONS FOR USE INSIDE INTS

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS**

**CAUTION:** Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. **IN SEVERE CASES CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.**

Avoid breathing spray mist. Do not take internally. Avoid contact with eyes, skin or clothing.  
Keep out of reach of children and domestic animals.

**ANTIDOTE STATEMENT**

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. See NOTE TO PHYSICIAN below.

**Personal Protective Equipment:**

Applicators and other handlers must wear:

- A. Long-sleeved shirt and long pants
- B. Waterproof gloves
- C. Shoes plus socks
- D. Chemical-resistant headgear for overhead exposure

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations:**

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricul-

tural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**STATEMENTS OF PRACTICAL TREATMENT  
N-Methyl Carbamate**

**GENERAL:** Contact a physician immediately in all cases of suspected poisoning. Transport patient to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

**IF SWALLOWED:** Never give anything by mouth to an unconscious or convulsing person. If conscious and not convulsing, drink 1 to 2 glasses of water and induce vomiting by touching the back of the throat with finger.

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**IF ON SKIN:** Wash thoroughly with soap and water.

**IF INHALED:** Move from contaminated atmosphere

and call a physician.

**NOTE TO PHYSICIAN:** Carbaryl is a N-methyl carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Gastric lavage may be used if this product has been swallowed. Carbaryl poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent overatropinization. Mild cases may be given 1 to 2 mg intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime

methiodide) are NOT recommended.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

**DIRECTIONS FOR USE**

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

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For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

#### PRODUCT INFORMATION

Liquid SEVIN 4F is an extremely fine dispersion of SEVIN in water. The dilute spray is tenacious and quick setting, giving an adhesive residue to plants on partial drying.

**OBSERVE THE FOLLOWING USE PRECAUTIONS:**

#### USER SAFETY REQUIREMENTS

- ▶ **Wear long-sleeved shirt, long 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.**
- ▶ **Do not allow children or pets to contact treated area until sprays have dried.**

#### Directions for Use

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.

Do not repeat applications more than once a week.

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Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl labels

#### INSECT CONTROL

Apply when insects or their damage appears. To maintain control repeat at 7 to 14 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.

Agway Liquid SEVIN 4F can be used on the following plants to control the insects listed.

**FRUIT:** Apples, Pears, Apricots, Nectarines, Peaches, Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries, Blueberries, Cherries, Plums, Prunes, Grapes, Strawberries.

**VEGETABLES:** Asparagus, Beans, Carrots, Chinese

#### VEGETABLE CROPS

Where a dosage range is indicated on vegetables, use lower rate on young plants; higher rate on mature plants. Apply when insects or their damage appear and repeat at 7 to 14 day intervals or as necessary unless shorter interval is specified.

**ASPARAGUS:** Asparagus beetle on seedlings or

Cabbage, Collards, Dandelion, Endive (Escarole), Garden Beets, Horseradish, Kale, Lettuce, Mustard Greens, Parsley, Parsnips, Radishes, Rutabagas, Salsify, Swiss Chard, Turnips, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kohlrabi, Corn, Cucumbers, Melons, Pumpkins, Squash, Peas, Potatoes, Tomatoes, Eggplants, Peppers.

**LAWNS, ORNAMENTAL PLANTS, FLOWERS, SHRUBS AND SHADE TREES:** Rose, Camation, Gladiolus, Zinnia, Chrysanthemum, Lilac, Arborvitae, Juniper, Hydrangea, Azalea, Elm, Maple, Oak, Dogwood, Birch and Pines.

#### FRUIT

**APPLES, PEARS:** East of the Rocky Mountains: Apple mealybug, codling moth, green apple aphid, white apple leafhopper - Use 1 tsp. Aphids (rosy apple, woolly apple), apple maggot bagworm, eastern tent caterpillar, European apple sawfly, eyespotted bud moth, fruittree leafhopper, green fruitworm, Japanese beetle, mites (apple rust, pear leaf blister,

spears. Use 2 to 4 tsp. Do not apply more often than once every 3 days. Do not apply within 1 day of harvest. Post-harvest: Asparagus beetle and apache cicada on ferns or brush growth. Use 4 to 8 tsp.

**BEANS (GREEN, LIMA, SNAP):** Mexican bean beetle. Use 1 tsp. Bean leaf beetle, cucumber beetles, flea beetle, Japanese beetle, leafhoppers, velvet bean caterpillar, western bean cutworm. Use 2 tsp. Armyworms, cutworms, corn earworms, stink bugs, tarnished plant bugs. Use 2 to 3 tsp.

**CARROTS, CHINESE CABBAGE, COLLARDS, DANDELION, ENDIVE (ESCAROLE), GARDEN BEETS, HORSERADISH, KALE, LETTUCE, MUSTARD GREENS, PARSLEY, PARSNIPS, RADISHES, RUTABAGAS, SALSIFY, SWISS CHARD, TURNIPS:** Flea beetles, harlequin bug, leafhoppers. Use 1 to 2 tsp. Six-spotted leafhopper (aster yellows vector). Use 2 to 3 tsp. on a 5 to 7 day schedule. Armyworms, imported cabbage worm, diamondback moth larvae and loopers, corn earworm, tarnished plant bug, stink bugs. Use 2 to 4 tsp. For optimum

pear rust), pear psylla, periodical cicada, plum curculio, redbanded leafroller, scales (forbes, lecanium, oystershell, San Jose), tarnished plant bug, lentiform leafminers - Use 2 tsp. Make first application when insects appear or damage is observed. Repeat as necessary. When heavy aphid infestations are present, repeated applications may be necessary for optimum control. To control rosy apple aphids, apply before leaves are curled. For optimum scale control, apply when crawlers are present. Apply at 10 day intervals for apple maggot control. Applications within 30 days after full bloom may also provide apple thinning. To avoid this, delay use until at least 30 days after bloom. May cause foliar injury if used before second cover on York and Macintosh apples. Do not apply within 1 day of harvest.

**APRICOTS, NECTARINES, PEACHES:** Codling moth, cucumber beetles, European earwig, fruittree leafroller, Japanese beetle, June beetle, lesser peachtree borer, periodical cicada, plum curculio, redbanded leafroller, scales (lecanium, olive, San

control of corn earworm after lettuce heads begin to form, use 4 tsp. in a 5 to 7 day schedule. To avoid possible injury to lettuce, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days. Do not apply within 3 days of harvest of head lettuce, garden beets (roots), horseradish, radishes, parsnips, rutabagas, salsify (roots), and turnips (roots). Do not apply within 14 days of harvest of chinese cabbage, collards, dandelion, endive (escarole), garden beets (tops), kale, leaf lettuce, mustard greens, parsley, salsify (tops), spinach, swiss chard and turnips (tops).

**COLE CROPS (BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, KOHLRABI):** Flea beetles, harlequin bug. Use 1 to 2 tsp. Armyworms, imported cabbage worms, diamondback larvae and loopers, corn earworm. Use 2 to 4 tsp.

**CORN:** Corn earworms, corn rootworm adults, European corn borer, fall armyworm, flea beetles, Japanese beetle, leafhoppers, sap beetles. Use 2 to 4 tsp. For larvae in whorl (budworm damage) and

To avoid possible injury on tender foliage do not apply to wet foliage or when rain or high humidity is expected during the next 2 days.

SEVIN does not control spider mites. If spider mites are a problem, use a registered miticide. Treated areas may be reentered immediately after the spray has dried.

**BEFORE USING MIX CONTENTS THOROUGHLY BY STIRRING OR SHAKING.**

**USE THE REQUIRED AMOUNT OF AGWAY LIQUID SEVIN 4F IN A GALLON OF WATER.**

**DO NOT STORE THE DILUTED SPRAY.**

Jose), tarnished plant bug, tussock moth. Use 2 tsp. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and trunk thoroughly, weekly during moth flight. Do not apply within 1 day of harvest of peaches, 3 days of harvest of apricots and nectarines.

**BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES:**

Japanese beetle, leafhopper, leafrollers, raspberry aphid. Use 4 tsp. Do not apply within 7 days of harvest.

**BLUEBERRIES:** Blueberry maggot, European fruit lecanium, fruitworms (cherry, cranberry), Japanese beetle. Use 3 to 4 tsp. Apply 3 weeks before harvest and repeat 10 days later or as necessary.

**CHERRIES, PLUMS, PRUNES:** Aphids (black cherry, mealy plum), cherry fruitworm, eyespotted bud moth, fruittree leafroller, Japanese beetle, lesser peachtree borer, peach twig borer, plum curculio, prune leafhopper, redbanded leafroller, scales (brown soft, forbes, lecanium, oystershell, San Jose). Use 2 tsp. Codling moth, eastern tent caterpillar, orange

torix, tussock moth. Use 1 1/2 tsp. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control. Spray limbs and trunk thoroughly, weekly during moth flight. Do not apply within 1 day of harvest.

**GRAPES:** European fruit lecanium, grape leaf folder, grape leafhoppers, grape leaf skeletonizer. Use 2 to 4 tsp. Grape Berry Moth, Japanese Beetle, June Beetles, Redbanded Leafroller. Use 4 tsp. Spray just before first brood leaf folder larvae emerge from rolls and as needed for leafhoppers.

**STRAWBERRIES:** Meadow spittlebug, strawberry leafroller, strawberry weevil. Use 2 to 4 tsp.

foliage feeders, apply to entire plant - repeat as necessary. For insects attacking silks and ears, apply at 2 to 3 day intervals starting when first silks appear and continuing until silks begin to dry. Three or more applications may be required depending on severity of infestation. Timing and good coverage are absolutely essential for effective control. Cutworms - use 4 tsp. Application to the tassle region of corn during the pollen shed period will seriously reduce bee populations.

**CUCUMBERS, MELONS, PUMPKINS, SQUASH:** Melonworm, pickleworm. Use 1 to 2 tsp. Cucumber beetles, flea beetles, leafhoppers, squash bugs. Use 2 tsp. Avoid excessive application. 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 2 days.

**GARDEN PEAS:** Colorado potato beetle, leafhoppers, use 2 tsp. Armyworms, grasshoppers. Use 2 to 3 tsp.  
**POTATOES, TOMATOES, EGGPLANTS, PEPPERS:** Colorado potato beetle, flea beetles, leafhop-

pers. Use 1 to 2 tsp. European corn borer, fall armyworm, lace bugs, stink bugs, tarnished plant bugs, tomato fruitworm, tomato hornworm. Use 2 to 4 tsp. Cutworms (on potato, tomato, eggplant). Use 4 tsp.

### SPECIALTY USES

#### LAWN:

**ANTS, EARWIGS, FALL ARMYWORMS, FLEAS, LEAFHOPPERS, MOSQUITOES, MILLIPEDES:** Apply 1 1/2 oz. in 15 to 20 gals. water for each 500 sq. ft. of established lawn area. Chinch Bugs and Sod Webworms (lawn moths) - apply 2 to 3 oz. in 15 to 20 gals. water for each 500 sq. ft. of established lawn area. Use garden hose sprayers or pressure type equipment and apply full water volume to insure good penetration of lurf. For best results, mow lawn and apply immediately after rain or watering. Repeat in 2 to 3 weeks if necessary.

**ORNAMENTALS, TREES, WOODY PLANTS AND SHRUBS:** (Do not use on Boston Ivy, Virginia creeper and maiden hair fern) - Apply 2 tsp. per gal. water to obtain thorough coverage of upper and lower leaf sur-

faces. To control scale insects, treat trunks, stems and twigs in addition to plant foliage. For optimum worm control, treat when in early instars. Addition of a sticker may improve residual control. To control: apple aphid, bagworm, birch leaf miner, blister beetles, boxelder bug, boxwood leaf miner, elm leaf aphid, elm leaf beetle, flea beetles, gypsy moth, Japanese beetles, June beetles, lace bugs, leafhoppers, leafrollers, mealybugs, mimosa webworm, oak leafminers, orange tortix, periodical cicada, plant bugs, puss caterpillars, psyllids, rose aphid, roseslug, scale insects, tent caterpillars, thrips (exposed), willow leaf beetles.

### STORAGE AND DISPOSAL

**PROHIBITION:** Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Store unused product in original container only. Store in a cool, dry area out of the reach of children and animals. Not for storage in or around the

home. Protect from excess heat.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. It is imperative that all SEVIN Flowable formulations be protected from freezing.

**NOTE:** This pesticide is to be sold ONLY in this original, unbroken package.

**DISCLAIMER:** Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

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