

JUL - 9 1993

H. R. McLane, Authorized Agent for
Sureco, Inc.
P.O. Box 938
Fort Vally, GA 31030

Dear Mr. McLane:

Subject: Revised and Expanded Labeling
Sevin^(R) Liquid Brand Carbaryl Insecticide
"Home and Garden Insect Spray"
EPA Registration No. 769-919
Your resubmission of May 17, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), sec. 3(c)(7)(A), is acceptable provided that you:

1. Submitted and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies 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 sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

We are changing our records to reflect the change in product name from Science Sevin Liquid to Sevin^(R) Liquid Brand Carbaryl Insecticide Home and Garden Insect Spray.

From here on, our records will reflect this name as the primary name for which the registration was issued. Inquiries for this product should mention this as the primary name.

Change the company name Southern Mill Creek Products Co., Inc. to Sureco, Inc. on the subject labeling.

-2-

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

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide Rodenticide Branch
Registration Division (H-7505C)

Enclosure

For *Amorpha*, *Calceola*, *Fall Amorpha*, and *Red Vespers* control do not require control until following seedling emergence.

BE AN ACTIVE HOME PRECAUTIONER. Choose all these benefits by using **Conco** and **1-800-333-3333**. During early spring, I spray **Spine Vegetal** and **Spine** on my **Spine** and **Spine**. This product readily dissolves in water to form a spray that can be applied with garden hose equipment (pump-and-spray) or great foam! The active ingredients form a protective film on the plant surface to prevent insects from feeding and ovipositing. **Conco** is a natural, non-toxic, and safe for the environment.

[illegible][illegible]

SEVIN LIQUID

HOME and GARDEN INSECT SPRAY

CONTROLS INSECTS ON VEGETABLES, FRUITS & NUTS, LAWN & ORNAMENTAL INSECTS, IMPORTED FIRE ANTS, LYSIE DISEASE VECTOR TICKS, MOSQUITOES, PEST CONTROL AROUND BUILDINGS, POULTRY INSECTS, HOME-END-SPRAYER APPLICATION.

Also See Recommended Labeling For Additional Product Use

ACTIVE INGREDIENT: Carbaryl 1-Naphthyl N-methylcarbamate 21.3 %

INERT INGREDIENTS: 78.7 %

Contains 2 lbs. Carbaryl per gallon Total 100.0 %
SEVIN is a registered trademark of Rhone-Poulenc for Carbaryl Insecticides

KEEP OUT OF REACH OF CHILDREN CAUTION

"PRECAUTIONAL LABELING" is used to let you know, in one easy-to-read format, how to use this product safely and to avoid any possible harm to you or your family.

STATEMENTS OF PRACTICAL TREATMENT
E. **SHOULD** be followed by a physician of Rhone-Poulenc Company immediately before spraying by pump sprayer 1 or 2 gallons of water containing 1/2 pint of Sevin liquid. Do not make contact with or get anything by mouth in an unventilated or semientilated room. E. **DO NOT** spray eyes with plenty of water. Do not breathe vapors immediately E. **DO NOT** wash thoroughly with soap and water E. **DO NOT** remove clothes to wash or apply without observation if indicated NOTE TO EXTENSION Carbaryl is a carbamate insecticide, which is a cholinesterase inhibitor. Carbamate insecticides may cause some mild symptoms due to the inhibition of the cholinesterase enzyme system. These effects of over exposure are temporary and usually disappear. See NOTE TO PHYSICIAN below. SEE SIDE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION May be harmful if swallowed. Avoid breathing spray mist or vapors. Do not take internally. Avoid contact with skin, eyes or clothing. Wear regular long-sleeved shirt and trousers. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling. NOTE TO PHYSICIAN Also observe NOTE in Statements of Practical Treatment. Specific treatment consists of prolonged stomach pumping. Caution should be maintained to prevent over stimulation. Mild cases may be given 1 to 2 mg of atropine sulfate every 15 minutes until full atropinization has been achieved and repeated 2-4 times. Severe cases should be given 2 to 4 mg of atropine sulfate every 10 minutes until fully atropinized, then intravenously every 30 to 60 minutes to maintain threshold for at least 12 hours. Decease for children should be immediately reduced. Complete recovery from over exposure is to be expected within 24 hour hospitalization and other measures should not be used. Further steps like 2-PAM are not recommended unless organophosphorus anticholinesterase is also suggested.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and sensitive invertebrates. Do not apply directly to water. In areas where surface water is present or to be treated apply before the water level rises, avoid under forest canopy. Do not apply where surface water flows from area treated. 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. Do not use when colonies of bees are present in major numbers than insect control. Before applying, verify bees are not present. Do not apply when bees are present within 1 mile of the area to be treated. Do not apply directly to bees or honey bees.

EPA Reg. No. 789-919 EPA Est. No. 6720-FL-1

Net Contents 1 Pint

SOUTHERN MILL CREEK PRODUCTS CO., INC.

6414 North 68th Street - Tampa, FL 33616

See back of label for steps

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **DISPOSAL:** Store product in its original labeled container in a cool, dry, locked place out of reach of children. Do not store in areas where temperatures frequently exceed 100°F. This product may be used following approval to control insecticide residues. **DISPOSAL:** Do not reuse empty container. When empty container is removed from its label and placed in trash.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. States containing prior to 1970. Do not use any type of equipment or machinery for other purposes. Apply with a pump sprayer, power pump or hose-end sprayer to give thorough coverage when insects or damage appear. Repeat as necessary to maintain control, unless spray interval is specified. **Plant Diseases:** Carbaryl will injure plants by Virginia Creeper and Mountain Clematis. During early season it may injure Virginia and Sand Pine species.

VEGETABLE CROPS

All spray rates are undiluted mix. - 100 lbs./acre. Each rate follows the specific insect ranges as listed. Do not over dose.

ASPARAGUS: Asparagus Beetle, Grasshoppers - 4 to 8 lbs./acre. Pre-harvest interval - 1 day. Asparagus Beetle, Asparagus Beetle - 8 to 16 lbs./acre. Post harvest application only. Treat ferns or brush growth. Do not treat more than once every 3 days.

BEANS: BLACK EYED PEAS, CONFEAS, CROWDER OR SOUTHERN PEAS, DRY BEANS, GREEN BEANS, LIME BEANS, NAVY BEANS, AND SNAP BEANS: Blister Beetle, Mexican Bean Beetle, - 2 to 4 lbs./acre. Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Flea Beetle, Green Cloverworm, Japanese Beetle, Leafhoppers, Three Corned Alfalfa Hopper, Thrips, Velvetbean Caterpillar, Western Bean Cutworm, - 4 lbs./acre. Armyworms, Cutworms, European Corn Borer, Fall Armyworms, Grasshoppers, Tarnished Plant Bug, Webworms, - 4 to 8 lbs./acre. Corn Earworm, Cowpea Curculio, Lima Bean Pod Borer, Lygus Bugs, Stink Bugs, - 8 lbs./acre. Pre-harvest interval - 0 days (all except cowpeas), 3 days for cowpeas.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CARROTS, CAULIFLOWER, CELERY, CHINESE CABBAGE, COLLARDS, DANDELION, ENDIVE (ESCAROLE), GARDEN BEET, HARVEY SALAD, HORSERADISH, KALE, KOHLRAB, LETTUCE, MUSTARD GREENS, OKRA, PARSHIPS, PARSLEY, RADISHES, RUTABAGAS, SALSIFY, SPINACH, SWISS CHARD, TURNIPS: Flea Beetles, Harlequin Bugs, Leafhoppers - 2 to 4 lbs./acre. Acker Leafhopper, Grasshoppers, Lygus Bugs, Spittlebugs - 4 to 8 lbs./acre. Armyworm, Corn Earworm, Fall Armyworm, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug - 4 to 8 lbs./acre. Pre-harvest interval days: 0 - Carrots, 3 days - Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Garden Beet Root, Head Lettuce, Horseradish, Kohlrabi, Parsnips, Radishes, Rutabagas, Salsify Root, and Turnip Root; 14 days - Chinese Cabbage, Celery, Collards, Dandelion, Endive (Escarole), Garden Beet tops, Harveer Salad, Kale, Mustard Greens, Leaf Lettuce, Parsley, Salsify tops, Spinach, Swiss Chard, and Turnip tops. **NOT FOR USE ON CELERY IN CALIFORNIA.** Observe plant response precautions. Lettuce, treat on a 5 to 7 days schedule after heads begin to form.

CORN: Armyworm, Chinch Bug, Corn Earworm, Corn Rootworm Adults, European Corn Borer, Fall Armyworm, Flea Beetles, Grasshoppers, Japanese Beetle, Leafhoppers, Sap Beetle, Southern Corn Borer - 4 to 8 lbs./acre. **OBSERVE BEE CAUTION.** For insects affecting silks and ears, apply at 1 to 6 days intervals starting when first silks appear and continuing until silks begin to dry. For larvae in whorl and foliage feeders, apply as necessary. Optimum timing and good coverage are essential for effective control. Western Bean Cutworms - 8 lbs./acre. Treat when infestation averages

15% and at 90 to 100 % based emergence. Treatment after 100% silk emergence will reduce effectiveness. Pre-harvest interval - 0 days.

CUCUMBER, MELONS, PUMPKINS, SQUASH: Pickworm, Melonworms, - 2 to 4 lbs./acre. Cucumber Beetles, Flea Beetles, Leafhoppers, Squash Bugs - 4 lbs./acre. Pre-harvest interval - 0 days.

POTATO, TOMATO, EGGPLANT, PEPPER, PEANUTS, PEAS: Bean Leaf Beetle, Blister Beetle, Colorado Potato Beetle, Cucumber Beetle, Flea Beetle, Green Cloverworm, Japanese Beetle, Leafhoppers, Mexican Bean Beetle, Red-necked Pearworm, Three Corned Alfalfa Hopper, Thrips, Velvetbean Caterpillar - 2 lbs./acre. Alfalfa Caterpillar, Armyworm, Corn Earworm, Grasshoppers, Flea Leafhopper, Flea Weevil, Western Yellowsided Armyworm - 4 lbs./acre. European Corn Borer, Fall Armyworm, Lace Bug, Milk Bug, Tarnished Plant Bug, Tomato Hornworm, Tomato Pinworm - 4 to 8 lbs./acre. Cuckoo, White Striped Beetle adults - 8 to 16 lbs./acre. Pre-harvest interval - PEAS: 3 days of others, 0 days.

SWEET POTATO: Corn Earworm, Cucumber Beetle, Flea Beetle, Grasshoppers, Sweet Potato Hornworm, Tortoise Beetle - 4 to 8 lbs./acre. **NOT FOR USE IN CALIFORNIA.** Apply as a foliar spray as needed. Yellow-striped Armyworm - 8 lbs./acre. Sweet Potato Weevil - 4 to 8 lbs./acre. Full coverage is essential. Use lower rate on young plants and higher rate on mature plants. Pre-harvest interval - 0 days.

FRUIT AND NUT CROPS

APPLE THINNING: Apply 1 full coverage dilute spray 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 carbaryl, exercise caution to avoid possible yield reduction. Pre-harvest interval - 1 day. **APPLES ONLY:** Apply 1 to 2 lbs./acre for early thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Purban, Red Delicious, Winesap, Yellow Newton. Apply 2 to 4 lbs./acre for difficult to thin varieties including Baldwin, Northern Spy, Rhode Island Greening, Staats Red, Turkey, Wealthy, Yellow Transparent and York Imperial.

ALMOND: Peach Twig Borer, San Jose Scale, Fruit Tree Leafroller - 4 lbs./acre. Apply in popcorn or petal fall stages and again when the May brood of the peach Twig Borer begins to hatch or thereafter as needed. Havel Orange - 4 lbs./acre. Time early and mid season applications to correspond to moth flight periods. Make a late season application at initiation of hull split or up to 10% hull split. Pre-harvest interval - 28 days.

APPLE, PEARS: Apple Aphid, Apple Maggot, Apple Mealybug, Apple Rust Mite, Apple Sucker, Bagworms, California Pear Bug (Pear Sawfly), Codling Moth, Eastern tent Caterpillar, European Apple Sawfly, Eyespotted Bud Moth, Forster Scale, Fruit Tree Leafroller, Green Fruitworm Japanese Beetles, Lecanium Scale, Lesser Appleworm, Orange Tortrix, Oystershell Scale, Pear Leaf Blister Mite, Pear Psylla, Pear Rust Mite, Periodical Cicada, Red Banded Leafroller, Rosy Apple Aphid, San Jose Scale, Tarnished Plant Bug, Tortoiseshell Leafminer, White Apple Leafhoppers, Woolly Apple Aphid, Yellowheaded Fireworm - 4 lbs./acre. Pre-harvest intervals - 1 day. To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For psylla control, apply when eggs hatch or young nymphs are present. For scale control, apply when crawler are present.

BLACKBERRIES, RASPBERRIES, DEWBERRIES (Boysenberries, Loganberries), GRAPE, STRAWBERRIES: European Fruit Lecanium, European Raspberry Aphid, Grape Leafroller, Grape Leafhopper, Japanese Beetle, Leafhoppers, Leafrollers, Meadow

Spillbug, Commonweaver Leafroller, (Strawberry Inukumi), Rose Chaler, Snowy Tree Cicada, Strawberry Weevil, Western Grape Leaf Sawfly, Western Yellow-striped Armyworm - 4 to 8 lbs./acre. Cutworms, Eight Spotted Forester, Grape Berry Moth, Jack-beam Beetle, June Beetle, Omnivorous Leafroller, Orange Tortrix, Raspberry Sawfly, Red-banded Leafroller, Salt Marsh Caterpillar - 8 lbs./acre. Apply before first broad leaved larval emergence from eggs.

STRAWBERRIES: Carbaryl may injure Early Dawn and Sunrise varieties on the Delaware Peninsula. Pre-harvest interval - 7 days, Grapes; 1 day on Strawberries; 7 days for Blackberries, Dewberries, Raspberries, Boysenberries and Loganberries.

BLUEBERRIES: Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, European Fruit Lecanium, Japanese Beetle - 8 lbs./acre. Apply 3 weeks before harvest and repeat as necessary. Pre-harvest interval - 0 days.

CITRUS FRUITS: (Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangelos, Citrus Canker, Kumquats, and hybrids) Avocado Leafroller, California Orangebug, Citrus Cutworm, Citrus Root Weevil, Fruit Tree Leafroller, Orange Tortrix, Western Yellowsided Moth, Western Indian Supercane Borer (Aphid) - 4 lbs./acre. Scale Brown Soft Scale, California Red Scale, Citrus Scale, Citrus Snow Scale, Yellow Scale - 3 to 4 lbs./acre. Pre-harvest interval - 5 days. Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.

CRANBERRIES: Cutworms, Cranberry Fireworms, Cranberry Fruitworm, Japanese Beetles, Leafhoppers, Rose Chaler - 8 to 12 lbs./acre. Pre-harvest interval - 0 days. Apply when leafrollers eggs are hatching. Repeat on first appearance of adult Blunt Moth and again 3 to 4 weeks later.

FILBERTS: Filbert Aphid, Filbert Leafrollers, Filbertworm - 4 lbs./acre. Pre-harvest interval - 0 days. Apply when leafrollers eggs are hatching. Repeat on first appearance of adult Blunt Moth and again 3 to 4 weeks later.

APRICOTS, CHERRIES, NECTARINES, PEACHES, PLUMS, PRUNES: Apple Pandemic, Black Cherry Aphid, Brown Soft Scale, Cherry Fruitworm, Cherry Maggot, Cucumber Beetles, European Earwig, Eyespotted Bud Moth, Forster Scale, Fruit Tree Leafroller, Green Fruitworm, Japanese Beetles, June Beetles, Lecanium Scale, Lesser Peachtree Borer, Mosely Plum Aphid, Olive Scale, Oriental Fruit Moth, Oystershell Scale, Peach Twig Borer, Periodical Cicada, Plum Curculio, Prune Leafhopper, Red-banded Leafroller, Rose Chaler, San Jose Scale, Tarnished Plant Bug, Variegated Leafroller - 4 lbs./acre. Codling Moth, Eastern Tent Caterpillar, Orange Tortrix, Tussock Moth - 3 to 4 lbs./acre. For optimum scale control, apply when crawlers are present. For lesser peach tree borer control spray trunks and tree trunks thoroughly, weekly during moth flight. Pre-harvest interval - 1 day, cherries, peaches, plums, and prunes, 3 days apricots and nectarines.

PECANS: Black Margined Aphid, Fall Webworms, Hickory Shuckworm, Lesser Webworm, Pecan Leaf Phylloxera, Pecan Nut Casebearer, Pecan Spillbugs, Pecan Weevil, Targ Girdler, Walnut Caterpillar - 4 to 10 lbs./acre. Pre-harvest interval - 0 days.

WALNUT: Cane Scale, Codling Moth, European Fruit Lecanium, Filbertworm, Fruit Tree Leafroller, Frosted Scale - 2 lbs./acre. For Codling Moth apply when average cross sectional diameters of nuts are 1/2 to 3/4 inch. Repeat during middle of later June as needed. European Earwig - 8 lbs./acre. Spray tree trunks to point of run-off. Pre-harvest interval - 5 days.

BEST AVAILABLE COPY

5075

ACCEPTED
with COMMENTS
to EPA Letter Dated

JUL - 9 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
769-919