



000769-00493-070600

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Systems Integration Group, Inc.



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

JUL 6 2000

Richard W. Fresh
Consep, Inc., An Indirect Subsidiary of Verdant Brands
213 SW Columbia Street
Bend, Oregon 97702-1013

Subject: Suregard Sevin 4 Flowable
EPA Registration No. 769-493
Resubmission amendment dated April 27, 2000 in Response
to GDE.

Dear Mr. Fresh:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, 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 "Applicators and Other Handlers Must Wear" you must add the following additional PPE: "Chemical resistant headgear for overhead exposure".
2. In the "Agricultural Use Requirements" statement box you also must add the additional PPE for early entry: "Chemical resistant headgear for overhead exposure".

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

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

ACCEPTED
with COMMENTS 2/8
In EPA Letter Dated:

SUREGARD SEVIN® 4 FLOWABLE

Controls Insects on Vegetables, Lawns, Ornamentals and Fruits

JUL 6 2000
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
769-493

Active Ingredient:	
Carbaryl (1-Naphthyl N-methylcarbamate)	42.85%
Inert Ingredients:	57.15%
Total:	100.00%

Sevin® is a registered trademark of Rhone Poulenc for carbaryl insecticide
This product contains 4 pounds carbaryl per gallon

EPA REG. NO. 769-493

EPA EST. NO.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Side Panel for Additional Precautionary Statements

STATEMENT OF PRACTICAL TREATMENT

This product is an N-methyl carbamate and is a cholinesterase inhibitor

If Swallowed: Drink one or two 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 person. Get medical attention.

If Inhaled: Remove victim to fresh air.

If On Skin: Wash with soap and water.

If In Eyes: Flush eyes with water.

Note To Physician: Carbaryl is a moderate, reversible cholinesterase inhibitor.

Atropine is antidotal. Do not use 2-PAM, opiates or cholinesterase inhibiting drugs.

Manufactured By:

VERDANT BRANDS, INC.
9555 JAMES AVE., SOUTH
SUITE 200
BLOOMINGTON, MN 55431

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

For information on this product (including health concerns, medical emergencies or pesticide incidents) call the National Pesticide Tele-communication Network at 1-800/858-7378.

If you are not completely satisfied with this product or for consumer information, call 952/703-3300 weekday 9-5 Central Time to arrange a refund for the purchase price or replacement of the product. Proof of purchase is required.

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

CAUTION: Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Do not take internally.

Personal Protective Equipment:

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Waterproof gloves, and Shoes plus socks.

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

LABELING FOR THE SUREGARD SEVIN 4 FLOWABLE

MIXING INSTRUCTIONS: To insure a uniform product, gently **SHAKE CONTENTS BEFORE POURING**. Be sure sprayer tank, spray tips and screens are clean before use. Fill the sprayer with $\frac{1}{2}$ to $\frac{3}{4}$ the desired amount of clean water. Pour the recommended amount of product into the tank and complete filling to desired level with water. Before and frequently during use, agitate the spray mixture in the tank to prevent settling. It is recommended that spray equipment be thoroughly cleaned after each day's use.

VEGETABLES

SUREGARD Sevin 4 Flowable will control a wide range of vegetable insect pests. Begin applications when insects first appear and repeat applications to maintain control but not more often than once every 7 days. Do not apply to any crop not listed on this label. Coverage of both upper and lower leaf surfaces is essential for good control. Use sufficient gallonage to obtain full control.

Apply 1 quart per acre to control: alfalfa caterpillar, bean leaf beetle, cucumber beetle, Colorado potato beetle, harlequin bug, Japanese beetle, leafhopper, mealworms, Mexican bean beetle, red-necked peanutworm, squash bug, three-cornered alfalfa hopper, thrips, velvetbean caterpillar and Western bean cutworm.

Apply 1 1/2 quarts per acre to control: armyworms, aster leafhopper, corn earworm, cutworms, grasshopper, pea leaf weevil, pea weevil, spittlebug and yellow striped armyworm.

Apply 2 quarts per acre to control: asparagus beetle, chinch bug, corn rootworms, cowpea curculio, European corn borer, fall armyworm, imported cabbageworm, lace bug, lima bean pod borer, lygus bug, stink bug, sap beetle, Southwestern corn borer, tarnished plant bug, tomato fruitworm, tomato hornworm and tomato pinworm.

SUREGARD SEVIN 4 Flowable may be applied to the vegetables listed below: Follow the time intervals between last application and harvest indicated by the number in parenthesis “()” following the crop name. Asparagus (1), Beans, including cowpeas, crowder or Southern peas, dry beans, green beans, lima beans, navy beans, snap beans (succulent 3, dry and hay 21, forage 14), broccoli (3), Brussels sprouts (3), beets (root 7, tops 14), cabbage (3), cauliflower (3), Chinese cabbage (14), collards (14), carrots (7), corn (sweet 2; sweet, field and pop: forage & silage 14, grain & fodder 48), cucumbers (3), dandelion (14), endive (escarole) (14), eggplant (3), Hanover salad (14), horseradish (7), kale (14), kohlrabi (3), leaf and head lettuce (14), mustard greens (14), melons (3), okra (3), peanuts (14), peas (succulent 3, dried and hay 21, forage 14), peppers (3), potatoes (7), pumpkin (3), radish (7), rutabaga (7), squash (3), salsify (roots 7, tops 14), spinach (14), Swiss chard (14) and tomatoes (3).

FORAGE AND FIELD CROPS

Apply when insects or their damage appear. Repeat applications at 7 to 14 day intervals, if necessary, to maintain control. Thorough and uniform coverage is essential for effective control.

APPLY 1 QUART PER ACRE TO CONTROL: blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three-cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.

APPLY 1 1/2 QUARTS PER ACRE TO CONTROL: armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, bee weevil, Egyptian alfalfa weevil larvae, essex skipper.

APPLY 2 QUARTS PER ACRE TO CONTROL: whitefringed beetle adult, painted lady (this is caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stem weevil, sweet potato

hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.

SUREGARD Sevin 4 Flowable may be applied to the crops below. Follow the time interval between last application and harvest indicated by the number in parenthesis "(")" following each crop. Follow specific directions for crops where listed.

ALFALFA (7) AND CLOVERS (7): For alfalfa weevil larvae, if pre-treatment damage is extensive, cut alfalfa and treat the stubble. On dense growth, use 25 to 40 gallons of water per acre with ground equipment to insure adequate coverage.

FORAGE GRASSES (7), PASTURE (14) AND RANGELAND (14): To control thrips in grasses grown for seed, use high spray pressure to improve penetration into boot.

PEANUTS (14)

RICE (14): CAUTION! May kill shrimp and crabs. Do not use in areas where these are important resources. DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT, MISSISSIPPI DELTA AND TEXAS.

SORGHUMS (Milo and grain sorghum) (forage 14, grain & fodder 21): Direct spray into forming heads for optimum insect control. Treat for sorghum midge when 25 to 30 percent of the heads have emerged from the boot and are in bloom. Repeat 7 days later if adults are still active. A third application may be necessary in late planted sorghum or if midge are abundant. For chinch bugs, use high gallonage ground application directed at the base of plants.

SOYBEANS (Succulent 3, Dried and Hay 21, Forage 14): DO NOT APPLY A COMBINATION OF SEVIN 4 FLOWABLE AND 2,4-DB HERBICIDE TO SOYBEANS.

SUGAR BEET (28 for roots and forage)

SUNFLOWER (60): Do Not Use In California).

SWEET POTATO (7): Apply as a foliage spray. Full coverage of plants is essential. Do Not Use In California.

WHEAT (Forage 7, Grain & Straw 21)

TOBACCO

To control tobacco flea beetle in plant beds, apply 2 tablespoons/gallon or 1 quart/50 gallons per 100 square yards. To prevent plant injury, avoid excessive applications. To control green June beetle grubs, use 1 1/2 quarts per 100 gallons and apply to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per square yards. In fields to control budworms, fall armyworm, flea beetle, hornworm, Japanese beetle, June beetle and shuckfly, apply 1 to 2 quarts per acre. Use lower rate on young plants (up to knee high). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small. If late season applications are necessary, allow three days before priming or cutting.

CHESTNUTS (14)

Do Not Use In California

To control chestnut weevil, apply 2 to 3 quarts per 100 gallons of water. Make 4 applications at weekly intervals beginning in late July for adult chestnut weevil control. Last application should be made prior to shuck split.

ADULT MOSQUITO CONTROL

To control adult mosquito infestations in pastures, rangelands, yards, parks, recreational areas, logging camps, military posts and adjacent forested lands or wastelands, apply 1/2 to 1 quart per 100 gallons of water (1/2 to 1 tablespoon per gallon). Treat shrubbery and areas where adult mosquitoes congregate. Treat with pressure ground sprayers when adult mosquitoes are active: CAUTION! May kill shrimp and crabs. Do not use in area where these are important resources. OBSERVE BEE CAUTION.

ORNAMENTALS AND LAWNS

SUREGARD Sevin 4 Flowable will control the insects listed below. Apply 1 quart per 100 gallons of water and spray thoroughly covering both upper and lower leaf surfaces. Begin applications when insects or their damage first appear and repeat in 7-10 intervals if necessary, to maintain control. The addition of SUREGARD Spreader - Sticker may improve residual control. Ants, apple aphid, armyworm, azalea leafminer, bagworms, birch leafminer, blister beetle, boxelder bug, boxwood leafminer, browntail moth, cankerworms, catalpa sphinx, chiggers, cooley spruce gall aphid, cutworms, cypress tip moth,

Douglas Fir Tussock Moth, Eastern Spruce Gall Aphid, Elm Leaf Aphid, Elm Leaf Beetle, Elm Spanworm, Eriophyid Mites, European Pine Shoot Moth, Fall Armyworm, Flea Beetles, Fuller Rose Beetle, Gall Midges, Gall Wasps, Green Striped Mapleworm, Grasshoppers, Gypsy Moth, Hackleberry Nipplegall Maker, Molly Bud Moth, Holly Leafminer, Jackpine Budworm, Japanese Beetle, Jeffery Pine Needleminer, June Beetles, Lace Bug, Leafhoppers, Leafrollers, Locust Borer, Maple Leafcutter, Mealy Bugs, Mimosa Webworm, Nantucket Pine Tip Moth, Oak Leafminers, Oak Leaf Skeletonizer, Oakworm Complex, Oleander Caterpillar, Olive Ash Borer, Orange Striped Oakworm, Orange Tortix, Periodical Cicada, Pine Sawfly, Pine Spittlebug, Pitch Pine Tip Moth, Plant Bugs, Poinsettia Hornworm, Psyllids, Puss Caterpillar, Red-bumped Oakworm, Rose Aphid, Rose Chafer, Rose Slug, Saddled Prominent, Sawflies (exposed), Scale Insects, Sowbugs, Spiny Elm Caterpillar, Springtails, Spruce Budworm, Spruce Needleminer, Subtropical Pine Tip Moth, Tent Caterpillars, Thorn Bug, Thrips (exposed), Ticks, Walnut Caterpillars, Webworms, Western Hemlock Looper, Western Spruce Budworm, Willow Leaf Beetles, and Yellow Poplar Weevil.

LAWN AND RECREATIONAL AREAS: SUREGARD Sevin® 4 Flowable will control the following insects on lawns and recreational areas: Ants, Armyworms, Bluegrass Billbug, Centipedes, Chiggers, Cutworms, Earwigs, Essex Skipper, European Chafer, Fall Armyworm, Fiery Skipper, Fleas, Grasshoppers, June Beetles, Leafhoppers, Lucerne Moth, Millipedes, Mosquitoes, Sod Webworms (lawn moths), Sowbugs, Springtails, Ticks, Yellowstriped Armyworm, Chinch Bugs, and White Grubs. Mix SUREGARD Sevin® 4 Flowable with water according to directions given in the following table and apply as a coarse (large droplet) spray using a low pressure sprayer such as a knapsack-type, hose-attached applicator or other similar equipment. For best results, mow lawn and apply after watering or rain. If it is impractical to use the quantity of water listed in the table, apply in at least one gallon of water per 1,000 sq. ft. and sprinkle with the recommended amount of water after application to insure good penetration of turf. Repeat 2-3 weeks later if necessary. Use the higher rate listed to control chinch bugs and white grubs. To treat 500 sq. ft. use 3½ to 5 oz. SUREGARD Sevin® 4 Flowable to 15 gallons of water; treat 1,000 sq. ft. with 7½-10oz. to 30 gallons of water; treat 2,500 sq. ft. with 4-4 quarts to 75 gallons of water; treat 5,000 sq. ft. with 1-1½ quarts to 150 gallons of water.

TREE FRUIT, NUT CROPS, SMALL FRUIT

Suregard Sevin 4 Flowable will control many insect pests on fruit and nut trees. Use sufficient spray gallonage to obtain coverage. Follow the specific directions for each crop. The time interval between last application and harvest is indicated by the number in parenthesis "()" following each crop. Follow locally issued spray schedules for timing and frequency of applications in your area.

TREE FRUIT

APPLE THINNING: Apply ¼ to 1 pint per 100 gallons of water in a full coverage dilute spray between 10 to 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 SUREGARD Sevin® 4 Flowable, exercise caution to avoid possible yield reduction. The above rate is for easily thinned varieties including Cortland, Grimes, Jonathan, Macintosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton. For more difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early Macintosh, Golden Delicious, Lady Apple, Northern Spy Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial, use 1 to 2 pints per 100 gallons of water.

APPLE, PEARS (3): SUREGARD Sevin 4 Flowable will control the insects on apples and pears: apple aphid, apple maggot, apple mealybug, apple rust mite, apple sucker, bagworms, California pear slug, (pear sawfly), codling moth, Eastern tent caterpillar, European apple sawfly, eyespotted bud moth, forbes scale, fruittree leafroller, green fruitworm, Japanese beetle, lecanium scales, lesser appleworm, tygus bugs, orange tortrix, oystershell scale, pear curculio, red-banded leafroller, rosy apple aphid, San Jose scale, tarnished plant bug, tentiform leafminer, white apple leafhopper, wooly apple aphid and yellow headed fire worm. Apply 1 quart per 100 gallons. Apple mealybugs, apple aphid, codling moth and white apple leafhopper may be controlled with 1 pint east of Rocky Mountains only. For Pyslla control, apply

when eggs hatch or young nymphs are present. For optimum scale control, apply when crawlers are present. To avoid undesired apple thinning, delay use until at least 30 days after full bloom.

CITRUS FRUITS (5): SUREGARD Sevin® 4 Flowable will control the following insects on citrus. Avocado Leafroller, Black Scale, Brown Soft Scale, California Orangedog, California Red Scale, Citricola Scale, Citrus Cutworm, Citrus Rootweevil, Citrus Snow Scale, Fruittree Leafroller, Orange Tortrix, Western Tussock Moth, West Indian Sugarcane Borer (adult) and Yellow Scale. Apply 1 quart per 100 gallons. Do not apply less than 10 gallons of diluted spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.

PEACHES, PLUMS, PRUNES, CHERRIES (3), APRICOTS, NECTARINES (3): SUREGARD Sevin® 4 Flowable will control the following insects on the above fruits: Apple Pademis, Black Cherry Aphid, Brown Soft Scale, Cherry Fruitworm, Cherry Maggot, Cucumber Beetle, European Earwig, Eyespotted Bud Moth, Forbes Scale, Fruittree Leafroller, Green Fruitworm, Japanese Beetle, June Beetle, Lecanium Scales, Lesser Peachtree Borer, Mealy Plum Aphid, Olive Scale, Oystershell Scale, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Plum Curculio, Plum Leafhopper, Red-Banded Leafhopper, Rose chafer, San Jose scale, Tarnished Plant Bug, Tussock Moth and Variegated Leafroller. Apply 1 quart per 100 gallons of water. Spray for thorough coverage. For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and tree trunk thoroughly weekly during moth flight.

NUT CROPS

PECANS (14): To control the following insects, apply 10 ounces per medium-sized tree in approximately 20 gallons water. This is equivalent to 3 1/8 quarts per acre based on 10 trees per acre. Black Margined Aphid, Fall Webworm, Hickory Shuckworm, Lesser Webworm, Pecan Leaf Phylloxera, Pecan Nut-Casabearer, Pecan Spittlebug, Pecan Weevil, Twig Girdler, and Walnut Caterpillar. **SOIL APPLICATION FOR PECAN WEEVIL:** When foliar application of SUREGARD Sevin® 4 Flowable is not feasible due to lack of proper equipment, poorly accessible tree location or other factors, a soil application method may be used to provide suppression of adult pecan weevil populations. Apply 5 ounces SUREGARD Sevin® 4 Flowable per tree, to the soil under tree, in sufficient water (10 gallons per tree minimum) to uniformly cover the entire area beneath the tree canopy 10 feet beyond the dripline. Make applications every 7-10 days from the time that the pecan shells begin to harden (early August) until adult weevils are no longer present (about September 15). **WALNUTS (14):** To control the following insects apply 1 pint per 100 gallons of water and spray the entire tree thoroughly. Calico Scale, Codling Moth, European Fruit Lecanium, Fiberworm, Fruit Leafroller, and Frosted Scale. For codling moth, apply first spray when average cross-sectional diameters of developing nuts are 1/4 to 1/2 inch. Repeat during middle or late June as needed. To control European earwig, apply 2 quarts per 100 gallons of water and spray tree trunk to point of runoff.

SMALL FRUIT CROPS

BRAMBLES (Blackberries, Raspberries, Dewberries, Boysenberries, Loganberries) (7): Apply 1-2 quarts per 100 gallons water and spray thoroughly to control: European Raspberry Aphid, Japanese Beetle, Leafhopper, Rose Chafer, Snow Tree Cricket. **BLUEBERRIES (7):** Apply 1 1/2 quarts per 100 gallons water three weeks before harvest and repeat as necessary to control: Blueberry Maggot, Cherry Fruitworm, Cranberry, Fruitworm, European Fruit Lecanium, and Japanese Beetle. **GRAPES (7):** Apply 2 quarts per 100 gallons of water and spray thoroughly to control: Cutworms, Eight-Spotted Forester, European Fruit Lecanium, Grape Berry Moth, Grape Leafroller, Grape Leafhopper, Japanese Beetle, June Beetle, Orange Tortrix, Omnivorous Leafroller, Red-Banded Leafroller, Saltmarsh Caterpillar, Western Grapeleaf Skeletonizer, and Western Yellowstriped Armyworm. Apply before first brood leafroller larvae emerge from rolls. **STRAWBERRIES (7):** Apply 1-2 quarts per 100 gallons water to control: Flea Beetles, Meadow Spittlebug, Omnivorous Leaf-tier (strawberry fruitworm). Strawberry Leafroller and Strawberry Weevil. Sevin may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.

POULTRY INSECT CONTROL

CHICKENS, DUCKS, GEESE, GAME BIRDS, PIGEONS AND TURKEYS: To control Chicken Mites, Fleas, Lice and Northern Fowl Mites, use as direct mist spray on birds by: (1) misting with electric fog machine. Mix 10 ounces in 1 gallon of water. Use 1 1/2 gallons of spray mixture per 1,000 hens in cages, on litter or on

