Reg # 51036-66 PM-19 1 of 25

APR 20 1993

Mr. Morris Gaskins
Micro Flo Company
P. O. Box 5948
Lakeland, FL 33807

Subject: Revised Labeling
Sevin 4L
EPA Registration Number 51036-66
Your Application Dated March 3, 1993

Dear Mr. Gaskins:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments given below:

Delete the 6-day preharvest interval (PHI) for Walnuts or give the rationale for this PHI.

Submit five (5) copies of your final printed labeling before you release the product for shipment. A stamped copy of the label is enclosed for your records.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide Rodenticide Branch
Registration Division (H7505C)

2925

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 20 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 51036-66

MICRO LO

SEVIN* 4 FLOWABLE

For Agricultural or Commercial Use Only

ACTIVE INGREDIENT:	
Sevin (1-naphthyl-N-methylcarbamate)	43.3%
INERT INGREDIENTS	56.7%
TOTAL	100.0%

*SEVIN is a registered trademark for Rhone Poulenc for Sevin (Contains 4 pounds of Sevin per gallon)

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching finger to back of throat. Do not induce vomiting or give anything by mouth to an unconscious person.
IF INHALED: Remove victim to fresh air. Apply respiration if indicated.
IF IN EYES: Flush eyes for at least 15 minutes with water. Call a physician immediately.
IF ON SKIN: Wash thoroughly with soap and water.

See Elsewhere on Label For Additional Precautionary Statements

EPA Reg. No. 51036-66 EPA Est. No. 51036-GA-1

Manufactured By
MICRO FLO COMPANY
P.O. BOX 5948
LAKELAND, FLORIDA 33807

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

CAUTION

MAY BE HARMFUL IF SWALLOWED OR INHALED.

OVEREXPOSURE MAY CAUSE: 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 OF OVEREXPOSURE OCCUR RAPIDLY FOLLOWING EXPOSURE TO THIS PRODUCT. Avoid breathing spray mist. Do not take internally. Avoid contact with eyes, skin or clothing. Wear regular long-sleeved work clothing and head covering. Change to clean clothing daily. Bathe and wash hair after each work day. Do not eat, drink or use tobacco while working with this product or spray solutions. Wash hands and face before eating, drinking or using tobacco. Keep out of reach of children and domestic animals.

ANTIDOTE STATEMENT: Atropine sulfate is highly effective as an antidote.
NOTE TO PHYSICIAN: Sevin is a 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. Sevin 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 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully atropinized, then 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. Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high

water mark, except under forest canopy and use on rice. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from area treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

BEE CAUTION

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.

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:
CAUTION! Area treated with Sevin on (date of application). Do not enter without appropriate protective clothing until sprays have dried. See Statement of Practical Treatment and Precautionary Statements for actions to be taken in case of accidental exposure.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in original container only, in cool, dry, locked area out of reach of children and animals. Do not store in areas where temperature frequently exceeds 100 degrees F. Sevin may be

used following exposure to several freeze thaw cycles. In case of minor spills, or leaks, clean up immediately. Soak up with sand, earth or other suitable material.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PREHARVEST AND GRAZING USE INFORMATION AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing probable Sevin residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. This product may be applied up to and including the day of harvest or grazing of forage crops (except alfalfa). Applications may be made without removing livestock from area being treated. Do not apply at greater rates or at more frequent intervals than is stated on the label. To do so may result in illegal residues in crops, meat, and milk.

DO NOT PLANT ROTATIONAL FOOD AND FEED CROPS NOT LISTED ON THIS OR OTHER Sevin LABELS IN Sevin TREATED SOIL.

Do not use reclaimed irrigation water from crops treated with Sevin on crops for which Sevin tolerances are not established.

NOTE: PRE-HARVEST INTERVAL IS INDICATED BY NUMBER IN ( ) FOLLOWING THE CROP.

PLANT RESPONSE PRECAUTIONS

To avoid possible injury to tender foliage, do not apply to wet foliage or during periods of high humidity. Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury may result. Sevin may also injure Virginia and sand pines. Carefully observe label instructions for apple thinning to avoid excessive thinning. Combinations with certain herbicides on rice and soybeans may be phytotoxic. Refer to specific directions for appropriate crop.

SPRAY PREPARATION TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR AND RECIRCULATE ALL CONTAINERS OF THIS PRODUCT PRIOR TO USE.

Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush with clean water. Fill spray or mix tank with 1/2 to 3/4 the desired amount

of water. Start mechanical or hydraulic agitation. Slowly add the required amount of Sevin and then the remaining volume of water. Include rinse water from container. Prepare only as much spray mixture as can be applied on the day of mixing.

MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURE FOR PROLONGED PERIODS OR DEGRADATION OF Sevin MAY OCCUR.

Local water conditions may also accelerate the degradation of spray mixtures containing Sevin. See Compatibility Statement below.

WASHOFF RESISTANCE AND COVERAGE

Dilution of 1 volume Sevin with 1 volume of water provides maximum resistance to washoff by rainfall or overhead irrigation. Dilutions higher than 1 part Sevin to 39 parts water (1:39) are not recommended when washoff resistance is desired. To achieve washoff resistance, Sevin must be diluted as stated above, and droplets must dry on the foliage. When atmospheric humidity is low, a drying time of at least two hours is generally adequate. Under high humidity a longer drying time is required. Washoff resistance cannot be expected if this product is applied to wet foliage and has not thoroughly dried prior to rainfall or overhead irrigation. On all crops, use sufficient spray volume to obtain thorough coverage. Optimum pest control under certain crop, pest or climatic conditions may require spray gallonages higher than the 1:39 dilution. For example in hot, arid weather (low humidity), higher spray gallonage per acre may be required to compensate for loss from evaporation and insure thorough coverage. The total spray volume required for effective pest control can best be determined by previous experience, pest and crop conditions and local recommendations.

COMPATIBILITY

Sevin 4 Flowable when diluted with at least an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil or aromatic solvents. If compatibility with another product and the resulting crop response is unknown, the mixture should be tested on a small scale. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. Incompatibility will reduce insect control and may cause application and handling difficulties or plant injury. Observe all cautions and limitations on labeling of all products used in mixtures.

WHEN PREPARING COMBINATION SPRAYS, FIRST ADD Sevin TO AT LEAST AN EQUAL VOLUME OF WATER, MIX THOROUGHLY, AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICATION PROBLEMS OR PLANT INJURY.

Sevin is unstable under highly alkaline conditions and mixtures with strong bases, such as Bordeaux, lime-sulfur and casein-lime spreaders, will result in chemical degradation of the insecticide. Do not use this product in water with pH values above 8.0 unless a buffer is added. If necessary, water should be buffered to neutral (pH=7.0) before adding this product to the spray tank. Overhead irrigation with alkaline or muddy water after application will also accelerate chemical degradation and may result in reduced insect control.

APPLICATION

On all crops use sufficient gallonage to obtain thorough and uniform coverage. Observe crop label instructions for specific directions regarding spray volume where they occur. Calibrate spray equipment to deliver the required volume. The flow rate of this product diluted 1:1 with water is similar to water. Use 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles. To clean spray system after use, drain and flush with water and detergent mixture. Rinse thoroughly with clean water. Refer to the Storage and Disposal directions for disposal instructions.

NOTE: When applying this product aerially apply the specified dosage per acre in sufficient water to provide thorough coverage.

INSECT CONTROL

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, Professional Consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Where a dosage range is indicated, use the lower rate on light to moderate infestations, young plants and early instars and the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

NOTE: All references to armyworm on the crops listed below refer to the species, Pseudaletia unipuncta, often called the "true armyworm". Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, Colorado potato beetle, spotted tentiform leafminer, and tobacco budworm (on cotton) to Sevin. If local experience indicates inadequate control, use an alternative pesticide.

DIRECTIONS FOR USE AS A WHEAT BRAN BAIT FOR END USE ONLY. NOT FOR REPACKAGING. FOR USE ONLY BY GOVERNMENT PERSONNEL OR PERSONS UNDER THEIR DIRECT SUPERVISION.

Mixing Instructions: Mix the appropriate amount of Sevin 4 Flowable with wheat bran to make a Sevin wheat bran bait containing 2% to 10% active Sevin. For example, for a bait containing 5% Sevin, mix 1 quart Sevin (contains 1 lb. active Sevin) with each 19 pounds of wheat bran. Mix only the amount of bait necessary for each insect control program. Storage Instructions: Store Sevin bran baits in cool, dry area out of reach of children and animals. Do not contaminate water, food, or feed by storage or disposal. NOTE: Sevin bran baits should only be stored temporarily while awaiting application. Application Instructions: Applications may be made with ground equipment (hand cyclone spreader) or with aerial application equipment with a metered bait spreader attachment.

PASTURES, RANGELAND, WASTELAND, ROADSIDES

NOTE: Preharvest interval for Rangeland is 14 days for ground application and 0 days for aerial application.

Use 0.50 - 1.50 lbs. active ingredient/acre for the control of grasshoppers and Mormon crickets. The lower rate is suggested for early instars on small plants or sparse vegetation. Use the higher rate for adults or dense vegetation. Use of low bait assay and higher rate is suggested for control of high grasshopper populations. Treatment may be repeated as necessary.

IMPORTANT: BEFORE USING SEVIN, READ AND FOLLOW CAREFULLY, OBSERVE THE PRECAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE PRODUCT LABEL.

FORAGE, FIELD AND VEGETABLE CROPS

REMINDER: Preharvest interval days are indicated in ( ) for each use.

Apply in sufficient spray volume to obtain thorough coverage. Do not dilute greater than 1:39 (volume product: volume water) where washoff resistance is desired. Where maximum washoff resistance is needed, do not exceed a 1:1 dilution. To prepare small volumes of spray mixture use 1 tablespoonful (1/2 fluid ounce) of Sevin 4 L per gallon of water where rates of 1 quart per acre or 1 quart per 100 gallons are indicated in the tables below.

GRASSHOPPERS
ALL FORAGE, FIELD AND VEGETABLE CROPS

1/2 to 1 1/2 quarts Sevin 4 L per acre. For preharvest interval days, see specific forage, field or vegetable crops. Use the lower rate for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditchbanks and borders. Use the higher rate for mature grasshoppers or applications to dense vegetation or if extended residual control is desired. Be certain spray volumes are appropriate to assure adequate coverage.

ALFALFA (7):
Blister beetles, Mexican bean beetle - 1/2 to 1 quart Sevin 4 L per acre.
Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Green cloverworm, Japanese beetle, Leafhoppers, Potato Leafhopper, Three cornered alfalfa hopper, Thrips, Velvetbean caterpillar - 1 quart Sevin 4 L per acre.

Armyworm, Cloverhead weevil, Corn earworm, Egyptian alfalfa weevil larvae, Essex skipper, European alfalfa beetle, Fall armyworm, Lygus bugs, Stink bugs, Webworms, Yellowstriped armyworm - 1 to 1 1/4 quarts Sevin 4 L per acre.
Alfalfa weevil larvae (West of the Rock Mountains) - 1 to 1 1/2 quarts Sevin 4 L per acre.
Alfalfa weevil larvae (East of the Rocky Mountains) - 1 1/2 quarts Sevin 4 L per acre. Observe bee caution. Observe plant response precautions. Sevin may cause a temporary bleaching of tender alfalfa foliage. Apply only once per cutting for alfalfa at 1 1/2 quarts. On dense growth, use 25 to 40 gallons per acre with ground equipment to ensure adequate coverage. For alfalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble.
Grasshoppers - Refer to general Grasshopper heading above.

ASPARAGUS (1):
Asparagus beetle - 1 to 2 quarts Sevin 4L per acre.
Apache cicada, Asparagus beetle - 2 to 4 quarts Sevin 4L. Post harvest application only. Treat ferns or brush growth. Do not treat more than once every 3 days.

BEANS (including blackeyed peas, southern peas, dry beans, green beans, lima beans, navy beans, and snap beans) (0):
COWPEAS (3):
LENTILS (DO NOT USE ON LENTILS IN CALIFORNIA) (7) :
Blister beetles, Mexican bean beetle - 1/2 to 1 quart Sevin 4L per acre.
Alfalfa caterpillar, Bean leaf beetles, Cucumber beetles, Flea beetles, Green cloverworm, Japanese beetle, Leafhoppers, Three cornered alfalfa hopper, Thrips, Velvetbean caterpillar, Western bean cutworm - 1 quart Sevin 4L per acre.
Armyworm, Corn earworm, Cutworms, European corn borer, Fall armyworm, Stink bugs, Tarnished plant bug, Webworms - 1 to 1 1/2 quarts Sevin 4L per acre.
Alfalfa Looper - 1 1/2 quarts Sevin 4L per acre.
Cowpea curculio - 2 quarts Sevin 4L per acre.
Corn earworm, Limabean podborer, Lygus bugs, Stink bugs (CALIFORNIA ONLY) - 2 quarts Sevin 4L per acre. Observe plant response precautions.
Grasshoppers - Refer to general grasshopper heading above.

CABBAGE, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER, KOHLRABI (3):
Flea beetles, Harlequin bug - 1/2 to 1 quart Sevin 4L per acre.
Armyworm, Corn earworm, Diamondback moth, Fall armyworm, Imported cabbageworm - 1 to 2 quarts Sevin 4L per acre.

HORSERADISH, RADISHES, RUTABAGAS AND TURNIP ROOTS (3):
CHINESE CABBAGE, COLLARDS, HANOVER SALAL, KALE, MUSTARD GREENS, AND TURNIP TOPS (14):
Flea beetles, Harlequin bug, Leafhoppers - 1/2 to 1 quart Sevin 4L per acre.
Aster leafhopper - 1 to 1 1/2 quarts Sevin 4L per acre.
Armyworm, Corn earworn, Fall armyworm, Imported cabbageworm, Stink bugs, Tarnished plant bug - 1 to 2 quarts Sevin 4L per acre.

CARROTS (0)
CELERY, PARSLEY (14)
PARSNIPS (3):
(Do not use on Celery in California)
Flea beetles, Leafhoppers - 1/2 to 1 quart Sevin 4L per acre.
Aster leafhopper, Lygus bugs, Spittlebugs - 1 to 1 1/2 quarts Sevin 4L per acre.
Armyworm, Corn earworm, Fall armyworm, Stink bug, Tarnished plant bug - 1 to 2 quarts Sevin 4L per acre. Treat on a 5 to 7 day schedule.

CORN (Field, Sweet, Pop) (1):
Armyworm, Chinch bugs, Corn earworm, Corn rootworm adults, Fall armyworm, Flea beetles, Japanese beetle, Sap beetles, Southwestern corn borer, Leafhoppers - 1 to 2 quarts Sevin 4L per acre. Observe bee caution.
For insects attacking silks and ears apply at 1 to 6 day 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.
For optimum chinch bug control, apply at least 20 gallons of water per acre by ground and direct spray toward stalk to provide thorough coverage.
European Corn borer - 1 1/2 to 2 quarts Sevin 4L per acre.
For optimum control, do not apply in less than 3 gallons of water per acre by air and 15 gallons of water per acre by ground.
Western bean cutworm - 2 quarts Sevin 4L per acre.
Cutworms - 2 to 3 quarts Sevin 4L per acre. For optimum control, apply in a 12 inch band, over the row, using sufficient volume of water to obtain thorough coverage. For broadcast application use at least 20 gallons (ground) and 5 gallons (air) of water per acre.

Grasshoppers - Refer to general grasshopper heading above.

COTTON (7):
Cotton fleahopper, Cotton leafworm, Flea beetles, Striped blister beetle, Thrips - 1/2 to 1 quart Sevin 4L per acre.
Boll weevil, Cotton bollworm, Fall armyworm, Leafrollers, Leafhoppers, Tarnished plant bug, Yellowstriped armyworm (cotton cutworm) - 1 to 2 quarts Sevin 4L per acre. Treat on a 5 to 7 day schedule for as long as control is necessary. Mid and late season insect control. May be applied after bolls open.
Lygus bugs - 1 to 2 quarts Sevin 4L per acre. For light to moderate populations in Western irrigated cotton.
Pink bollworm - 1 1/2 to 2 1/2 quarts Sevin 4L per acre.
Cutworms, Stink bugs, Saltmarsh caterpillar - 2 quarts Sevin 4L per acre. Aphid populations will be suppressed by repeated applications of this insecticide.

CUCUMBER, MELONS, PUMPKIN, SQUASH (0):
Pickleworm, Melonworm - 1/2 to 1 quart Sevin 4L per acre.
Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs - 1 quart Sevin 4L per acre. Observe plant response precautions.

DANDELION, ENDIVE (ESCAROLE) (14),
LETTUCE, SALSIFY (3):
Flea beetles, Harlequin bug, Leafhoppers - 1/2 to 1 quart Sevin 4L per acre.
Aster leafhopper, Lygus bugs, Spittlebugs - 1 to 1 1/2 quarts Sevin 4L per acre.
Armyworm, Corn earworm, Fall armyworm, Imported cabbageworm, Stink bugs, Tarnished plant bug - 1 to 2 quarts Sevin 4L per acre. Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.

FLAX, PROSO MILLET (DO NOT USE IN CALIFORNIA) (42):
Armyworm - 1 to 1 1/2 quarts Sevin 4L per acre.
Do not graze treated areas or harvest for dairy feed prior to crop maturity.
Grasshopper - Refer to the general grasshopper heading above.

PASTURE aerial application (0), ground application (14):
Armyworm, Chinch bugs, Essex skipper, Fall armyworm, Striped grass looper, Thrips, Range caterpillar, Range crane fly - 1 to 1 1/2 quarts Sevin 4L per acre. To control thrips in grasses grown for seed, use high spray pressure to improve penetration into boot. Apply a minimum of 2 applications per year. Allow at least 14 days between applications. Do not allow foraging or cut for hay within 14 days of last application by ground. Aerially treated pastures may be grazed or cut for hay on day of treatment. Carefully mark swaths to avoid overapplication.

Grasshoppers - Refer to the general grasshopper heading above.

RANGELAND
Ground application (14)
Aerial application (0)
Black grass bug, Mormon cricket, Range caterpillar, Range crane fly - 1/2 to 1 quart Sevin 4L per acre.

FOR AERIAL APPLICATIONS ONLY.

Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Carefully mark swaths to avoid overapplication.

Grasshoppers - Refer to the general grasshopper heading above.

WASTELAND, RIGHTS-OF-WAY, HEDGEROWS, DITCH BANKS, ROADSIDES
Aerial application (0)
Ground application (14):
Black grass bug, Mormon cricket, Range caterpillar, Range crane fly - 1/2 to 1 quart Sevin 4L per acre. Apply a maximum of 2 applications per year. Allow at least 14 days between applications. Do not allow foraging or cut for hay within 14 days of last application by ground. Aerially treated areas may be grazed or cut for hay on day of treatment. Carefully mark swaths to avoid overapplication.

Grasshoppers - Refer to the general grasshopper heading above.

GARDEN BEET ROOTS (3)
GARDEN BEET TOPS, SPINACH, SWISS CHARD (14):
Flea beetles, Harlequin bug, Leafhoppers - 1/2 to 1 quart Sevin 4L per acre.
Aster leafhopper - 1 to 1 1/2 quarts Sevin 4L per acre.
Armyworm, Corn earworm, Fall armyworm, Stink bugs, Tarnished plant bug - 1 to 2 quarts Sevin 4L per acre. Treat on a 5 to 7 day schedule.

OKRA (0):
Corn earworm, Stink bugs - 1 to 2 quarts Sevin 4L per acre. Treat on a 5 to 7 day schedule.

PEANUTS (0):
Blister beetles, Mexican bean beetle - 1/2 to 1 quart Sevin 4L per acre.
Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Green cloverworm, Japanese beetle, Leafhoppers, Rednecked peanutworm, Three cornered alfalfa hopper, Thrips, Velvetbean caterpillar - 1 quart Sevin 4L per acre.
Armyworm, Corn earworm, Fall armyworm, Stink bugs, Webworms - 1 to 1 1/2 quarts Sevin 4L per acre.
White-fringed beetle adults, Cutworms - 2 quarts Sevin 4L per acre. Observe plant response precautions.

PEAS (3):
Colorado potato beetle, Leafhoppers - 1 quart Sevin 4L per acre.
Armyworm - 1 to 1 1/2 quarts Sevin 4L per acre.
Alfalfa caterpillar, Cutworms, Pea leaf weevil, Pea weevil, Yellowstriped armyworm - 1 1/2 quarts Sevin 4L per acre.
Alfalfa looper - 2 1/2 quarts Sevin 4L per acre. (WASHINGTON STATE ONLY).

POTATO, TOMATO, EGGPLANT, PEPPER (0):
Colorado potato beetle, Flea beetles, Leafhoppers - 1/2 to 1 quart Sevin 4L per acre.
European corn borer, Fall armyworm, Lace bugs, Stink bugs (suppression), Tarnished plant bug, Tomato fruitworm, Tomato hornworm, Tomato pinworm - 1 to 2 quarts Sevin 4L per acre.
Cutworms - 2 quarts Sevin 4L per acre. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs.

PRICKLY PEAR CACTUS (1):
Cochineal scale (crawlers) - 2 quarts Sevin 4L per acre. Apply as needed at 7 to 10 day intervals. Do not make more than 7 applications per season.

RICE (14):
Armyworm, Chinch bugs, Fall armyworm, Stink bugs - 1 to 1 1/2 quarts Sevin 4L per acre.

MISSISSIPPI DELTA AND TEXAS CAUTION:
May kill shrimp and crabs. Do not use in areas where these are important resources. Do not use on rice fields in which crayfish and catfish farming are included in the cultural practice.

DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT.

Armyworm, Leafhoppers, Tadpole shrimp - 2 quarts Sevin 4L per acre.

CALIFORNIA ONLY
For optimum tadpole shrimp control apply to water when pest first appears. Grasshoppers - Refer to the general grasshopper heading above.

SORGHUM (MILO, GRAIN SWEET AND HYBRID) GRAIN (21), FORAGE (0):
Sorghum midge - 3/4 to 1 quart Sevin 4L per acre.
Armyworm, Chinch bugs, Corn earworm, Fall armyworm, Stink bugs, Webworms - 1 to 2 quarts Sevin 4L per acre.
Southwestern corn borer - 1 1/2 quarts Sevin 4L per acre.
Cutworms - 2 quarts Sevin 4L per acre. Direct spray into forming heads for optimum insect control. Treat for sorghum midge when 25 to 30 percent of heads have emerged from boot and are in bloom. Repeat application 3 to 5 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.

Grasshoppers - Refer to general grasshopper heading above.

SOYBEANS (0):
Bean leaf beetle, Blister beetle, Cucumber beetles, Grape colaspis, Green cloverworm, Japanese beetle, Mexican bean beetle, Velvetbean caterpillar - 1/2 to 1 quart Sevin 4L per acre.
Corn earworm - 1/2 to 1 1/2 quarts Sevin 4L per acre.
DO NOT APPLY A COMBINATION OF THIS PRODUCT AND 2,4 DB HERBICIDES TO SOYBEANS AS CROP INJURY MAY RESULT.
Use lower rates for light to moderate populations and smaller instars and to provide maximum survival of beneficial insects and spiders. Use the higher rates for heavy populations and larger instars.
Alfalfa caterpillar, Leafhoppers, Three cornered alfalfa hopper, Thrips - 1 quart Sevin 4L per acre.
Armyworm, Cutworms, Fall armyworm, Webworms - 1 to 1 1/2 quarts Sevin 4L per acre.
Painted lady (Thistle caterpillar), Saltmarsh caterpillar, Woollybear caterpillar, Yellowstriped armyworm - 1 1/2 to 2 quarts Sevin 4L per acre.

Grasshoppers - Refer to general grasshopper heading above.

SUGAR BEETS (14):
Armyworm, Beet leaf beetle, Fall armyworm, Lea beetles, Leafhoppers, Webworms - 1 to 1 1/2 quarts Sevin 4L per acre.
Cutworms - 1 1/2 quarts Sevin 4L per acre.

Grasshopper - Refer to general grasshopper heading above.

SUNFLOWER (DO NOT USE IN CALIFORNIA) (60):
Cutworms - 1 1/2 quarts Sevin 4L per acre.
Armyworm, Fall armyworm, Sunflower moth - 1 1/2 to 2 quarts Sevin 4L per acre.
Stem weevil, Sunflower beetle - 1 to 2 quarts Sevin 4L per acre.

Grasshopper - Refer to general grasshopper heading above.

SWEET POTATO (DO NOT USE IN CALIFORNIA) (0):
Corn earworm, Cucumber beetles, Flea beetles, Sweet potato hornworm, Tortoise beetles - 1 to 2 quarts Sevin 4L per acre.
Yellowstriped armyworm - 2 quarts Sevin 4L per acre. Apply as a foliar spray as needed.
Sweet potato weevil - 1 to 2 quarts Sevin 4L per acre. Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.

TOBACCO (PLANT BED TREATMENT) (0):
Flea beetle - 1 quart Sevin 4L per acre. Observe plant response precautions. For flea beetle control, use 4 tsps. (0.7 fl oz) in 6 gallons of water and apply to 100 square yards.
Green June beetle grubs - 8 quarts Sevin 4L per acre. For green June beetle grub control mix 11 tablespoons (5.5 fl oz) in 50 to 100 gallons of water and apply to 100 square yards. Applications should be made to areas that larvae have uprooted by sprinkling mixture as a drench treatment.

(FIELD TREATMENT) (0):
Budworms, Fall armyworm, Flea beetles, Hornworms, Japanese beetle, June beetle, Suckfly - 1 to 2 quarts Sevin 4L per acre. Use lower rate on young plants (up to knee height). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small.

WHEAT (INCLUDING TRITICALE) (DO NOT USE IN CALIFORNIA) FORAGE (0) GRAIN (21):
Flea beetles - 1/2 to 1 quart Sevin 4L per acre.
Cereal leaf beetle - 1 quart Sevin 4L per acre. Application is effective against eggs, larvae and adult of the cereal leaf beetle.
Armyworm, Fall armyworm - 1 to 1 1/2 quarts Sevin 4L per acre.
Grasshoppers - Refer to the general grasshopper heading above.

TREE FRUIT AND NUT CROPS

REMINDER: Preharvest interval days indicated in ( ) after each crop.

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays, maintain the recommended rate per acre equivalent to that used in a dilute spray. The optimum spray gallonage will depend on tree size, density and stage of growth. Typical spray gallonages per acre range from 200 to 300 gallons for dilute sprays, 30 to 100 gallons for concentrate sprays and 5 to 25 gallons of aerial sprays. Do not exceed maximum label rate per acre per application.

APPLE THINNING APPLES (1):
1/4 to 1/2 quarts Sevin 4L per 100 gallons of water.
Observe bee caution. Apply 1 full coverage dilute spray between 10 and 25 days after full bloom. Factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with this product. Exercise caution to avoid possible yield reduction. Rates may vary depending on variety and local orchard conditions. Consult with your County Extension Service or other experts for advice on the proper use of this product. In Eastern apple growing areas, tank mix combinations of Sevin and Naphthaleneacetic Acid (NAA) or Naphthaleneacetamide (NAD) have successfully thinned several early-maturing, heavy-setting varieties, as well as hard-to-thin varieties such as Golden Delicious and Rhode Island Greening. The

higher rate of Sevin and reduced rates of NAA or NAD are recommended for the combination. Also, a petal fall application of NAA or NAD followed 7 to 10 days later by an application of Sevin has improved thinning on these varieties. 1/2 to 1 quart Sevin 4L per 100 gallons of water.
For difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent, and York Imperial.

ALMOND (28):
Peach twig borer, San Jose scale, Fruittree leafroller - 1 quart Sevin 4L per 100 gallons of water.
Observe bee caution. 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.
Navel orangeworm - 1 quart Sevin 4L per 100 gallons of water. Time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of hull split or up to 10% hull split. Do not apply more than 5 quarts per acre.

APPLES, PEARS (1):
Apple aphid, Apple maggot, Apple rust mite, Apple sucker, Bagworms, California pearslug (pear sawfly), Eastern tent caterpillar, European apple sawfly, Eyespotted bud moth, Forbes scale, Fruit tree leafroller, Green fruitworm, Gypsy moth, Lygus bugs, Orange tortrix, Oystershell scale, Pear leaf blister mite, Pear psylla, Pear rust mite, Periodical cicada, Plum curculio, Redbanded leafroller, Rosy apple aphid, San Jose scale, Tarnished plant bug, Tentiform leafminers, Woolly apple aphid, Yellowheaded fireworm - 3/4 to 1 quart Sevin 4L per 100 gallons of water.
Apple mealybug, Apple aphid, Codling moth, White apple leafhopper - 1/2 quart Sevin 4L per 100 gallons of water. Observe bee caution. 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.
To control scale insects, apply when crawlers are present. Apply dilute sprays in 200 to 400 gallons per acre.

CHESTNUTS (DO NOT USE IN CALIFORNIA) (0):
Chestnut weevil - 2 to 3 quarts Sevin 4L per 100 gallons 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.

CITRUS FRUITS (SUCH AS GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, CITRUS CITRON, KUMQUATS, AND HYBRIDS) (5):
Avocado leafroller, California orangedog, Citrus cutworm, Citrus root weevil, Fruittree leafroller, Orange tortrix, Western tussock moth, West Indiana sugarcane borer (adults) - 1 quart Sevin 4L per

100 gallons water.
Black scale, Brown soft scale, California red scale, Citricola scale, Citrus snow scale, Yellow scale - 3/4 to 1 quart Sevin 4L per 100 gallons water.
Observe bee caution. Do not apply more than 20 quarts of this product per acre per application. To insure thorough coverage, do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus. Apply dilute sprays in 300 to 500 gallons per acre.

FILBERT (0):
Filbert aphid, Filbert leafroller, Filbertworm - 1 quart Sevin 4L per 100 gallons of water.
Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later. Apply dilute sprays in 300 to 400 gallons per acre.

OLIVES (0):
Olive scale - 3/4 to 1 quart Sevin 4L per 100 gallons of water. For optimum scale control add 1 1/2 gallons of summer oil and apply mixture when crawlers are present. Do not exceed 2 applications per year. Do not apply more than 15 quarts of this product per acre per application.

PEACHES (1),
APRICOTS, NECTARINES (3):
Apple pandemis, Codling moth, Cucumber beetles, European earwig, Fruittree leafroller, Gypsy moth, Japanese beetle, June beetle, Lecanium scales, Lesser peachtree borer, Olive scale, Orange tortrix, Oriental fruit moth, Peach twig borer, Periodical cicada, Plum curculio, Redbanded leafroller, San Jose scale, Tarnished plant bug, Tussock moths, Variegated leafroller - 1 quart Sevin 4L per 100 gallons of water. Do not apply more than 6 quarts of this product per acre per application to apricots. For optimum scale control apply when crawlers are present. Spray limbs and trunk thoroughly at weekly intervals during moth flight. Apply dilute sprays in 200 to 400 gallons per acre.

PECANS (0):
Black margined aphid, Fall webworm, Hickory shuckworm, Lesser webworm, Peach leaf phylloxera, Pecan stem phylloxera, Pecan nut carebearer, Pecan spittlebug, Pecan weevil, Twig girdler, Walnut caterpillar - 1 to 2 1/2 quarts Sevin 4L per 100 gallons of water. Do not apply more than 7.2 quarts of this product per acre per application. Apply dilute sprays in 200 to 400 gallons of water per acre.

PISTACHIOS (14):
Navel orangeworm - 1/2 to 2 quarts Sevin per 100 gallons of water. Apply dilute volumes of 150 to 300 gallons of mixed spray per acre for full coverage.

PLUMS, PRUNES, CHERRIES (1):
Codling moth, Eastern tent caterpillar, Orange tortrix, Tussock moth - 3/4 quarts Sevin 4L per 100 gallons of water.
Black cherry aphid, Brown soft scale, Cherry fruitworm, Cherry maggot, Eyespotted bud moth, Forbes scale, Fruittree leafroller, Green fruitworm, Gypsy moth, Japanese beetle, Lecanium scales, Lesser peachtree borer, Mealy plum aphid, Oystershell scale, Peach twig borer, Plum curculio, Prune leafhopper, Redbanded leafroller, Rose chafer, San Jose scale, Variegated leafroller - 1 quart Sevin 4L per 100 gallons of water. Do not apply more than 6 quarts of this product per acre per application. For optimum scale control apply when crawlers are present. For lesser peachtree borer control spray limbs and tree trunks thoroughly at weekly intervals during moth flight. Apply dilute sprays in 200 to 400 gallons of water per acre.

WALNUT (0):
Calico scale, European fruit lecaium, Filbertworm, Fruittree leafroller, Frosted scale - 1/2 quart Sevin 4L per 100 gallons water.

WALNUT ~~(0)~~:
Apply 1000 gallons of dilute spray per acre for mature trees. Codling moth - 1/2 quart Sevin 4L per 100 gallons of water. European earwig - 2 quarts Sevin 4L per 100 gallons of water. For codling moth apply first spray when average cross-sectional diameters of developing nuts are 1/2 to 3/4 inch. Repeat during middle or late June as needed. Apply dilute sprays in 200 to 500 gallons of water per acre. Spray tree trunks to point of run-off.

SMALL FRUIT CROPS

Recommended dosages refer to quarts of Sevin 4L per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonage per acre range from 100 to 300 gallons for dilute sprays, 30 to 100 gallons for concentrate sprays and 5 to 25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

BLACKBERRIES, RASPBERRIES, DEWBERRIES (INCLUDING BOYSENBERRIES AND LOGANBERRIES) (7):
European raspberry aphid, Japanese beetle, Leafhoppers, Leafrollers, Rose chafer, Snowy tree cricket - 1 to 2 quarts Sevin 4L per acre.
Omnivorous leafroller, Raspberry sawfly (California Only) - 2 quarts Sevin 4L per acre.

BLUEBERRIES (0):
Blueberry maggot, Cherry fruitworm, Cranberry fruitworm, European fruit lecanium, Japanese beetle - 1 1/2 to 2 quarts Sevin 4L per acre. Apply 3 weeks before harvest and repeat as necessary.

CRANBERRIES (1):
Cutworms, Cranberry fireworms, Cranberry fruitworms, Cranberry twig girdler, Elm spanworm, Japanese beetle, Leafhoppers, Rose chafer, Spaganothus worm - 1 1/2 to 3 quarts Sevin 4L per acre.

CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Apply in late bloom and as needed at 7 to 10 day intervals.

STRAWBERRIES (1):
Flea beetles, Meadow spittlebug (strawberry fruitworm), Omnivorous leaftier, Strawberry clipper, Strawberry bud weevil, Strawberry leafroller, Strawberry weevil - 1 to 2 quarts Sevin 4L per acre. Sevin may injure Early Dawn and Sunrise varieties.

IMPORTED FIRE ANT CONTROL

LAWNS, CEMETERIES, AND RECREATIONAL AREAS (INCLUDING TURF, GOLF COURSES, AND PARKS), PASTURES, RANGELAND, FORESTED LANDS AND WASTELAND:

1 1/2 quarts Sevin 4L per 100 gallons of water or 1 1/2 tablespoons Sevin 4L per gallon of water. Apply a total of 2 gallons of the 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 three feet to give sufficient force to break mound apex and flow into ant tunnels. For best results apply in cool weather, 65 to 80 degrees 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.
DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

NURSERY STOCK, VEGETABLE TRANSPLANTS, FOLIAGE PLANTS AND BEDDING PLANTS:
1 1/2 quarts Sevin 4L per 100 gallons water. DO NOT USE ON ANY FOOD CROP NOT LISTED ON LABEL. Do not make more than one application, either as a root-dip or a drench treatment (applied to the point of saturation). Avoid contact with foliage and treat only the growing media when using on bedding plants.

TREES AND ORNAMENTALS

NOTE: When applying this product aerially to forest trees (including shade trees, shelter belts, plantations, parks and recreational areas) and commercially grown ornamentals, woody plants and shrubs apply the specified dosage per acre in sufficient water to provide thorough coverage. AVOID DIRECT APPLICATION TO LAKES, STREAMS, PONDS, AND OTHER BODIES OF WATER.

For control of certain insects on trees, ornamentals, woody plants and shrubs, apply the recommended rates specified below. Use sufficient spray volume to provide thorough coverage. Do not use on Boston Ivy, Virginia creeper and maidenhair fern. During early season it may also injure Virginia and sand pines.

INSECTS:
Ants, Apple aphid, Armyworm, Azalea leafminer, Bagworms, Birch leafminer, Blister beetle, Boxelder bug, Boxwood leafminer, Brown tail 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, Hackberry nipplegall maker, Holly bud moth, Holly leafminer, Jackpine budworm, Japanese beetle, Jeffrey pine needleminer, June beetles, Lace bugs, Leafhoppers, Locust borer, Maple leafcutter, Mealy bugs, Mimosa webworms, Nantucket pine tip moth, Oak leafminers, Oak leaf skeletonizer, Oakworm complex, Oleander caterpillar, Olive ashborer, Orange stripped oakworm, Orange tortrix, Periodical cicada, Pine sawfly, Pine spittlebug, Pitch pine tip moth, Plant bugs, Poinsettia hornworm, Psyllids, Puss caterpillar, Redhumped oakworm, Rose aphid, Rose chafer, Roseslug, Saddled prominent, Sawflies (exposed), Scale insects, Sowbugs, Spiny elm caterpillar, Springtails, Spruce budworm, Spruce needleminer, Subtropical pine tip moth, Tent caterpillars, Thornbug, Thrips (exposed), Ticks, Walnut caterpillar, Webworms, Western hemlock looper, Western spruce budworm, Willow leaf beetles, yellow poplar weevil - 1 ounce/3 gallon, 1 quart/ 100 gallon.

Observe plant response precautions, Use sufficient spray volume to obtain thorough coverage of upper and lower leaf surfaces. 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. Applications for control of Maple leadcutter on sugar maple should be made when larvae are in 2nd instar, after mining, and as cases are being formed.

INSECTS:
Lps engraver beetle, Mountain pine beetle, Roundheaded pine beetle, Western pine beetle - 18 fluid ounces/3 gallon or 4 gallon/100 gallon.
Elm bark beetle - 23 1/2 fluid ounces/3 gallons or 20 quarts/100 gallon.

Effective as a preventive treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gallon of spray per 50 square feet of bark in late May to early July, or prior to beetle attack. Treat tree trunks from ground level up, until trunk diameter is less than 5 inches. Applications for control of Elm

bark beetle should consist of 20 to 30 gallons of spray for 50 foot height of elm tree for thorough coverage of all bark surfaces on trunks, limbs, and twigs.

LAWNS AND RECREATIONAL AREAS

TURF GRASSES:
Ants, Armyworm, Bluegrass billbug, Centipedes, Chiggers, Chinch bugs, Cutworms, Earwigs, Essex skipper, European chafer, Fall armyworm, Fiery skipper, Fleas, Grasshoppers, June beetles, Leafhoppers, Lucerne moth, Millipedes, Mosquitoes, Sod webworm (lawn moths), Sowbugs, Springtails, Ticks, White grubs, Yellowstriped armyworm - Use 6 fl. oz. of Sevin per 1000 square feet (8 quarts per acre) of turf grass. Make application in sufficient spray volume for thorough coverage and turf thatch penetration. Repeat treatment as necessary.

For Armyworm, Cutworm, Fall Armyworm and Sod Webworm Control: Do not irrigate treated areas following insecticide application.
For Chinch Bug Control: Treat entire turf grass area rather than just damaged areas. Irrigation of turf grass area before insecticide application will aid in penetration into turf grass.
For White Grub Control: Applications should be made when grubs are feeding near the soil surface, usually during the late March through May or July to early September, or as recommended by local Agricultural Extension Service agents. Water or irrigate turf grasses thoroughly soon after treatment.

ADULT MOSQUITO CONTROL

For dilute-spray ground applications to trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply the specified dosage per 100 gallons of water. For concentrate-spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. To prepare small volumes of spray, use 1 tablespoon (1/2 fluid ounce) of Sevin 4L per gallon of water, where rates of 1 quart are indicated.

PASTURES, RANGELANDS, PARKS, RECREATIONAL AREAS, LOGGING CAMPS, MILITARY POSTS AND ADJACENT FORESTED LANDS OR WASTELANDS 1/4 to 1 quart (1/2 to 1 tablespoonful per gallon) per 100 gallons water.

DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATION OR UNTIL SPRAYS HAVE DRIED.

CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Observe bee caution. Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early mornings or late evenings. Repeat at 7 to 10 day intervals. Use 1/4 to 1/2 quart per 100

gallons in mistblowers, 1/2 to 1 quart per acre in aerial sprays and 1 quart per acre in low pressure ground sprayers. 25 quarts Sevin 4L per 100 gallons water. For residual control in subtropical regions apply 4 gallons of prepared spray per 2000 square feet of surface area. Repeat in 3 to 6 months or when necessary.

POULTRY ROOSTS AND BUILDINGS ONLY

Bed bugs, Chicken mite, Fleas, Lice, Northern fowl mite - 4 quarts Sevin 4L per 100 gallons water. DO NOT TREAT POULTRY OR GAME BIRDS. Apply 1 to 2 gallons of spray mixture per 1000 square feet of wall, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid spraying nests, eggs and feeding and watering troughs.
Fowl tick - 16 quarts Sevin 4L per 100 gallons water. Ventilate while spraying. Do not treat premises within 7 days of slaughter.
Lesser mealworms - 50 quarts Sevin 4L per 100 gallons water. Apply 2 gallons of spray mixture per 1000 square feet of floor space or litter surface. Repeat as needed. Ventilate while spraying. Do not treat premises within 7 days of slaughter.

DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system.
SPRAY PREPARATION: First prepare a suspension of Sevin 4L in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of Sevin 4L and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of Sevin per 1 to 4 gallons of water are recommended). Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of Sevin 4L into the irrigation water line so as to deliver the desired rate per acre. The suspension of Sevin 4L should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
NOTE: When treatment with Sevin 4L has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time. The system must

contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution of treated water. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

PEST CONTROL IN AND AROUND BUILDINGS

General Information

NOTE:
Staining may occur on certain surfaces such as stucco, brick, cinder block, and wood. Therefore, applications of Sevin 4L to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics. Do not use this product in commercial food areas of food handling establishments, restaurants or other places where food is prepared or processed. Do not use in serving areas while food is exposed.

INDOORS

ANTS, CRICKETS, FIREBRATS, SILVERFISH
Mix 3 oz. of this product per gallon of water and apply as fine, low pressure (20 psi) spot spray or as crack and crevice application to areas where these pests hide, such as baseboards, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas. For ants, apply to ant trails, around doors and windows and other places where ants enter premises.

BEES AND WASPS

Mix 3 oz. of this product per gallon of water and thoroughly spray nest and entrance and surrounding areas where insects alight. It is generally advisable to spray the nests in the evening when the insects are less active and have returned to the nest. For best results, check nest carefully one or two days after spraying to ensure complete kill, then remove and destroy nest to prevent emergence of newly hatched insects.

BROWN DOG TICKS AND FLEAS

Mix 3 oz. of this product per gallon of water and thoroughly spray infested areas such as nearby cracks and crevices, between and under cushions of upholstered furniture, along and behind baseboards, window and door frames and other areas where these pests may be present.

CARPENTER ANTS

Mix 3 oz. of this product per gallon of water and apply to ant trails, around doors and windows and other places where ants enter premises. Where possible, apply this product directly to ant nest or infested wood.

CENTIPEDES, EARWIGS, MILLIPEDES, SCORPIONS

Mix 3 oz. Sevin 4L. per gallon of water and apply around water pipes, doors, and windows, and other places where these pests may enter premises. Spray baseboards, storage areas, garages, carports, basements and other areas where these pests are found.

COCKROACHES

Efficacy varies with species sensitivity. This product is generally not highly effective in controlling German cockroaches. However, the following may be controlled with the rates as stated. American roach, Australian roach, Brown roach, Smoky brown roach, and others. Mix 3 oz. this product per gallon of water and apply as a fine, low pressure (psi) spot spray or as a crack and crevice

application to areas where pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas.

SPIDERS

Mix 3 oz. of this product per gallon of water and apply to infested baseboards, window and door frames, corners, pipes, storage areas, attics and under eaves. Make spot applications to other areas where these pests are present.

OUTDOORS PERIMETER TREATMENT

Residual spray for control of ants, bees and wasps, brown dog ticks, carpenter ants, centipedes, cockroaches, crickets, earwigs, firebrats and silver fish, fleas, millipedes, scorpions and spiders. Mix 16 oz. this product per 50 gallons of water and apply via power spray or other spray methods. To help prevent infestations of buildings by the above pests, outside perimeter treatment should be in a band 6 to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Direct application to structures should be minimal and restricted to cracks and crevices and other areas where insects tend to congregate.

CONDITIONS OF SALE

All statements concerning the sue of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.

EPA

COMPANY NUMBER 264

PRODUCT SERIAL NO. 396

LABEL APPROVAL DATE 3-2-93

pm23 264-396 1/5

RHÔNE-POULENC

RHÔNE-POULENC AG COMPANY

Certification of Compliance Statement

I, being an authorized representative of Rhône-Poulenc Ag Company, certify that all containers of WEEDONE® DPC Ester Herbicide, EPA Reg. No. 264-396, produced by June 15, 1994, will bear revised labeling in accordance with the revised labeling required for Task Force technical and manufacturing-use products. I further certify that all containers of said product sold or distributed by this company by January 1, 1995 will bear revised labeling in accordance with the revised labeling required for Task Force technical and manufacturing-use products.

Company Representative: Karen S. Shearer

Title: Registration Manager

Signature: Karen S. Shearer Date: February 26, 1993

PO BOX 12014, 2 TW ALEXANDER DRIVE
RESEARCH TRIANGLE PARK, N.C. 27709
(919) 549-2000
INTERNATIONAL TELEX NUMBER 4999378–ANSWERBACK APC RTP
INTERNATIONAL DISTRIBUTION SERVICES TELEX NUMBER 4999377–ANSWERBACK APC IDS

Excellence in Performance
Pride in Achievement

WEEDONE® DPC Ester Herbicide

For Professional Weed Control in Ornamental Turf

Contains the butoxyethyl ester of dichlorprop (2,4-DP) and 2,4-D. For controlling annual and perennial broadleaf weeds in lawns and other ornamental turf areas in golf courses, parks, athletic fields and similar sites.

ACTIVE INGREDIENTS:

*2-(2,4-Dichlorophenoxy)propionic acid, butoxyethyl ester	29.3%
**2,4-Dichlorophenoxyacetic acid , butoxyethyl ester	29.9%
INERT INGREDIENTS:	40.8%

*2-(2,4-Dichlorophenoxy)propionic acid equivalent 20.6% by weight or 1.85 pounds per gallon.

**2,4-Dichlorophenoxyacetic acid equivalent 20.6% by weight or 1.85 pounds per gallon.

*Isomer specific by AOAC Method No. 6-D01-5

EPA Reg. No. 264-396 **EPA Est. No. 264-MO-01**

KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-334-9745

STATEMENT OF PRACTICAL TREATMENT

In case of contact, wash skin with soap and water. For eyes, flush with water for at least 15 minutes and get medical attention. Never give anything by mouth to an unconscious person. Get medical attention.

PRECAUTIONARY STATEMENTS

CAUTION
HAZARD TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or clothing. Avoid breathing vapors or spray mist. When mixing, loading, or applying this product, wear long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves.

After using this product, rinse gloves before removing; remove clothing and launder separately before reuse; and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

Note: (1) For containers over 1 gallon, but less than 5 gallons; persons engaged in pouring of this product must also wear coveralls or chemical-resistant apron. (2) For containers of 5 gallons or more; a mechanical transfer system (probe and pump) must be used for transferring the contents of the container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

ENVIRONMENTAL HAZARDS

This product is toxic fish and aquatic invertebrates. Drift or runoff may adversely affect fish, aquatic invertebrates and non-target plants. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water when disposing of equipment washwaters.

IMPORTANT: Avoid spray drift to susceptible plants such as ornamentals, cotton, beans, tomatoes and tobacco as this product may cause injury. Coarse sprays are less likely to drift. Under very high temperature of use, vapors from this product may injure susceptible plants in the immediate vicinity. Do not contaminate water used for irrigation or domestic purposes.

MIXING AND LOADING: Most cases of ground water contamination involving phenoxy herbicides such as 2,4-D or 2,4-DP have been associated with mixing/loading and disposal sites. Caution should be exercised when 2,4-D or 2,4-DP pesticides at such sites to prevent contamination of ground water supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent ground water contamination.

CLEANING OF EQUIPMENT: Do not use same spray equipment for other purposes unless thoroughly cleaned. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

BEST AVAILABLE COPY

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

STORAGE AND DISPOSAL

PESTICIDE STORAGE

Do not contaminate water, food or feed by storage or disposal. Store in original container in a dry secured storage area. Keep container tightly closed when not in use.

PESTICIDE DISPOSAL

Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Do not reuse empty container. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities. When burning container, stay out of smoke.

GENERAL CAUTIONS AND RESTRICTIONS

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treated areas until spray has dried.

Do not apply WEEDONE® DPC Herbicide through any type of irrigation system.

Do not use in or near a greenhouse.

Avoid treatment when ornamental turf is stressed, as from drought or high summer temperatures

A separate sprayer should be kept for killing weeds because 2,4-D and related chemicals are difficult to clean from equipment. Spray when the air is calm to avoid spray drift that might injure nearby desirable plants.

IMPORTANT: Do not use WEEDONE® DPC Herbicide to control weeds in flower or vegetable beds, in shrub or ornamental plantings, or on lippia or dichondra lawns.

GENERAL INFORMATION

FOR SALE TO, USE AND STORAGE BY PROFESSIONAL TURF MAINTENANCE PERSONNEL ONLY.

WEEDONE® DPC Ester Herbicide for professional weed control in ornamental turf is a concentrated 50-50 combination of 2,4-D and dichlorprop (2,4-DP) as the low volatile butoxyethyl.

This material forms an emulsion in water, not a solution. This tends to separate on standing. Provide agitation to prevent such separation and ensure a uniform spray mixture.

Use WEEDONE® DPC Ester Herbicide on lawns, golf courses, athletic fields, parks and other similar ornamental turf areas.

WEEDONE® DPC Ester Herbicide for professional weed control in ornamental turf is also effective on many noxious perennial weeds, poison ivy, honeysuckle and brambles in rough areas such as along driveways, roadsides, fencerows and drainage ditchbanks.

Apply WEEDONE® DPC Ester Herbicide for professional weed control in ornamental turf any time broadleaf weeds are growing actively. Dandelion, plantain, ground ivy and clovers respond best to treatment in fall or spring before flower heads develop. To control wild garlic, spray it in early spring and late fall for two consecutive treatments.

Winter weeds such as chickweed and henbit should be treated in very early spring.

Summer weeds such as knotweed and spotted spurge are most easily controlled while they are small. In areas with extended growing seasons, treatment in both spring and fall may be needed to control more resistant species.

For established ornamental turf, fall treatment fits into a good management program. Proper fertilization and mowing should be combined with chemical weed control to thicken the turf after weeds have died and to discourage more weeds from invading.

On ornamental turf to be over-seeded in the fall, treatment should be scheduled for at least 4 weeks before the seeding date. A good rain (1/4 inch or more) or deep watering should occur during this period.

Fall-seeded ornamental turf may be treated the following spring. Spring-seeded ornamental turf may be treated after the grasses have sprouted and been cut at least twice, generally 6 to 10 weeks after seeding, depending on germination and growth rate.

AMOUNTS TO USE

To control most annual and perennial broadleaf weeds in ornamental turf, apply WEEDONE® DPC Ester Herbicide professional ornamental turf weed control at the rate of 3 to 4 pints per acre (1.12 to 1.5 oz per 1000 sq ft) in enough water for good wetting (25 to 100 gallons per acre).

Treatment at this rate may injure bentgrass, St. Augustine grass, centipede grass, carpetgrass and newly seeded ornamental turf. If it is necessary to control weeds in these grasses, use half the rate recommended and make a second half-rate treatment 2 to 3 weeks later. Do not use WEEDONE® DPC Herbicide on bentgrass greens or tees.

The maximum number of broadcast applications per treatment site is 2 per year. This does not exclude spot treatments.

BEST AVAILABLE COPY

WEEDS CONTROLLED BY WEEDONE® DPC ESTER HERBICIDE FOR PROFESSIONAL ORNAMENTAL TURF WEED CONTROL

bindweed	false dandelion	mustards	sowthistle
black medic	fleabane	oxalis (yellow woodsorrel)	speedwell (annual)
brambles	Florida pusley	pennywort	spurge
buckhorn plantain	frenchweed	peppergrass	sumac
bull thistle	ground ivy	pigweed	vervain
burdock	hawkweed	plantains (narrow or buckhorn; broadleaf)	vetch
buttercups	healall	poison ivy	violet
Canada thistle	henbit	poison oak	wild aster
Carolina geranium	honeysuckle	poorjoe	wild blackberry
chickweeds (common, mouseear)	jimsonweed	povertyweed	wild carrot
chicory	knotweed	purslane	wild garlic
clovers	kochia	ragweed	wild geranium
cocklebur	kudzu	sheep sorrel	wild lettuce
cudweed	lambsquarters	shepherdspurse	wild onion
dandelion	little starwort	smartweeds	wild radish
dock	mallow	soliva	wild raspberry
evening primrose	morningglory		yarrow

- This product is not effective on perennial veronicas or on weed grasses.
- Resistant weeds such as oxalis (yellow woodsorrel), bindweed and yarrow should be retreated whenever new growth appears. Control of difficult weeds such as sheep (red) sorrel, soliva and violets may be only partial.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions and that the directions, warnings and other statements on this label are based upon responsible experts evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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