

24-516 01/15
MAY 21 1987

Mr. J.S. Lovell
Union Carbide Agricultural Products
Company, Inc.
P.O. Box 17610
Jacksonville, FL 32216

Dear Mr. Lovell:

Subject: Sevin Brand 80S Carbaryl Insecticide
EPA Registration No. 264-316
Your Application Dated February 5, 1987

The labeling referred to above, submitted in connection with
registration under the Federal Insecticide, Fungicide, and Rodenticide
Act, as amended, is acceptable. A stamped copy is enclosed for your
records.

Sincerely yours,

Dennis Edwards
Acting Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TF-767C)

Enclosure

92622:P/I:Edwards:E-11:KENCO:5/13/87:5/21/87:kim:VO:EK:kim

CONCURRENCES

SYMBOL	ORIGINATOR							
SURNAME								
DATE								

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Sevin® brand 80S

Carbaryl Insecticide

For Agricultural or Commercial Use Only

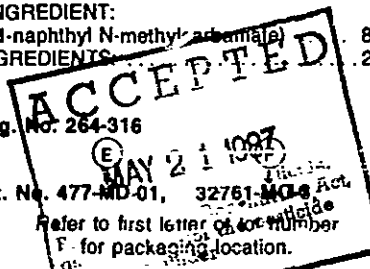
ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate) 80% by wt.

INERT INGREDIENTS 20% by wt.

E.P.A. Reg. No. 264-316

E.P.A. Est. No. 477-MD-01, 32761-MD-01, 477-TX-01



**KEEP OUT OF REACH OF CHILDREN
WARNING AVISO**

PRECAUTIONARY STATEMENTS:

See Inside Booklet.

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

**IN CASE OF EMERGENCY TELEPHONE
(24 HOURS A DAY) IN U.S.A. 1-800-UCC-HELP
FOR GENERAL PRODUCT INFORMATION CALL 800-334-8745.**

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P. O. Box 12014, T. W. Alexander Drive, Research Triangle Park, NC 27709
SEVIN is a registered trademark of Union Carbide Corporation for carbaryl insecticides.
Made in U.S.A.

APC 2100-004-17

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ti 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 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. Analyses will be arranged by Union Carbide Agricultural Products Company, Inc.

Consultation on therapy can be obtained at all hours by calling the Union Carbide emergency number 1-800-UCC-HELP.

ENVIRONMENTAL HAZARDS

Do not apply when weather conditions favor drift from the area treated.

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water and wetlands, except under the forest canopy and use on rice. Discharge from rice trucks may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wastes.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS. 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. Contact your Cooperative Agricultural Extension Service or your local Union Carbide Agricultural Products Company representative for further information.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Wheat	Carrot leaf beetle	1½	0 (forage) 21 (grain)	DO NOT USE IN CALIFORNIA. Do not make more than two applications after grain heads emerge from boot. Application is effective against eggs, larvae and adults.
	Armyworm Fall armyworm	1½ to 2		

TREE FRUIT AND NUT CROPS

For dilute sprays apply the specified dosage per 100 gallons of water. For concentration and aerial sprays increase the concentration of SEVIN® brand 80S Carbaryl insecticide in the spray mixture to apply an amount per acre equivalent to that 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 200-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	POUNDS OF SEVIN® BRAND 80S/100 GAL.	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
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 this product, exercise caution to avoid possible yield reduction. Consult with your County Extension Service or other experts for advice on the proper use of this product. For easily thinned varieties including Cortland, Grimes, Jonathan, Winesap, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.
Apple only	½ to ¾	1	
	¾ to 1½		For difficult to thin varieties including Baldwin, Ben Davis, Cortland, Spyside, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Starke Late Turkey, Wealthy, Yellow Transparent and Yellow Newtown.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/100 GAL	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach twig borer San Jose scale Fruitree leafroller	1½	28	Apply in "popcorn" or petal fall stages when the May brood of the peach twig borer begins to hatch or thereafter as needed.
	Nevel orangeworm			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 8½ pounds per acre.
Apples Pears	Apple aphid Apple rust mite Apple sucker Bagworms California pearling (pear sawfly) Codling moth Eyedotted bud moth Green fruitworm Lecanium scales Lesser appleworm Apple mealybug Apple aphid Codling moth	1 to 1½	1	WEST OF THE ROCKY MOUNTAINS. 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.
	White apple leafhopper	½		EAST OF THE ROCKY MOUNTAINS.
	Apple maggot Apple rust mite Bagworms Eastern tent caterpillar European apple sawfly Eyedotted bud moth Forbes scale Fruitree leafroller Green fruitworm Japanese beetle Lecanium scales Lesser appleworm Oystershell scale	1½	1	To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control apply when crawlers are present.
	Pear psylla Pear leaf blister mite Pear rust mite Periodical cicada Plum curculio Redbanded leafroller Rory apple aphid San Jose scale Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowheaded fireworm			

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Soybeans	Bean leaf beetle Cucumber beetles Green cloverworm	½	0	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. Use the higher rates for heavy populations and larger instars.
	Corn earworm	½ to 1 1½ to 1½		
	Blister beetles Grape colaspis Mexican bean beetle	½ to 1½		
	Aflala caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	1½		
	Armyworm Cutworms Fall armyworm	1½ to 1½		
	Printed lady (Thistle caterpillar)	2½ to 3		
	Stink bugs Webworms	1½ to 1½		
Sugar beets	Flax beetles Leafhoppers Webworms	1½ to 1½	14	
	Cutworms	1½		
Sunflower	Cutworms	1½		DO NOT USE IN CALIFORNIA. Do not allow animals to graze on treated crops.
	Armyworm Fall armyworm	1½ to 2½	60	
	Stem weevil Sunflower beetle	1½ to 2½		

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sweet potato	Sweet potato weevil	8 Tbsp./gal.	0	DO NOT USE IN CALIFORNIA.
	Corn earworm Cucumber beetles Flea beetles Sweet potato hornworm Tortoise beetles	1½ to 2½		PREPLANT DIP Just prior to planting, dip sweet potato cuttings in a suspension of this product (9 Tbsp./gal. of water).
	Sweet potato weevil	1½ to 2½		Apply as a foliar spray as needed.
Tobacco	Tobacco flea beetle	2½ Tbs./gal. or 1½ lbs/50 gal. and apply 8 gal/100 sq. yards	0	FOLIAR APPLICATION Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
	Green June beetle grubs	¾ lb/100 gallons		IN PLANT BEDS. To prevent plant injury, avoid excessive applications.
	Budworms Fall armyworm Flea beetles Hornworms	Japanese beetle June beetle Suckley		Apply only to areas that larvae have uprooted by springing as a drench with 50 to 100 gallons per 100 square yards.
		1½ to 2½		IN FIELDS 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. If late season applications are necessary, allow three days before pruning or curing.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Garden beet Spinach Swiss chard	Flea beetles Harlequin bug	Leathoppers 1½ to 1½	3 (garden beet roots)	Treat on a 5 to 7 day schedule.
	Aster leathopper	1½ to 1½	14 (garden beet tops, spinach, Swiss chard)	
	Armyworm Corn earworm	Stink bugs Tarnished plant bug	1½ to 2½	
	Fall armyworm	1½ to 2½	0	
Okra	Corn earworm Stink bugs	1½ to 2½	0	Treat on a 5 to 7 day schedule.
Peanuts	Blister beetles Mazoean bean beetle	¾ to 1½	0	Observe plant response precautions.
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leathoppers	Red-necked peanut worm Three cornered alfalfa hopper Thrips Velvetbean caterpillar		
	Armyworm Corn earworm Fall armyworm	Stink bugs Webworms		
	Whitefringed beetle adults Cutworms	2½		
	Colorado potato beetle Leathoppers	1½		
	Armyworm	1½ to 1½		
	Alfalfa caterpillar Cutworms Pea leaf weevil	Pea weevil Yellowstriped armyworm		
Peas	Colorado potato beetle Leathoppers	1½	3	
	Armyworm	1½ to 1½		
	Alfalfa caterpillar Cutworms Pea leaf weevil	1½		

Pepper	European corn borer Fall armyworm Lace bugs Stink bugs Tomato hornworm Tomato pinworm Cutworms	Tarnished plant bug Tomato fruit worm Tomato hornworm Tomato pinworm	1 1/4 to 2 1/4 2 1/4	0	
*For application to Potatoes via Center Pivot Irrigation Systems refer to "Directions for Use Through Center Pivot Irrigation Systems."					
Rice	Armyworm Chinch bugs Fall armyworm Stink bugs Armyworm Leafhoppers	Fall armyworm Stink bugs Tadpole shrimp	1 1/4 to 1 1/2 2 1/4	14	MISSISSIPPI DELTA & 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/or catfish farming are included in the cultural practice. DO NOT APPLY PROPAZIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT. CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when pest first appears.
Sorghum (milo, grain sorghum, sweet sorghum and hybrids)	Armyworm Chinch bugs Corn earworm Sorghum midge Southwestern corn borer Cutworms	Fall armyworm Stink bugs Webworms	1 1/4 to 2 1/2 1 1/2 2 1/4	21 (grain) 0 (forage)	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 base of plants.

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CROP	INSECT		POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Carrots Celery Parsnips Parsley	Flies beetles	Leafhoppers	1/2 to 1 1/4	0 (carrots) 3 (parsnips) 14 (celery & parsley)	DO NOT USE ON CELERY IN CALIFORNIA. Treat on a 5 to 7 day schedule.
Corn* (field, sweet, pop)	Armyworm Chinch bugs Corn earworm Corn rootworm adults European corn borer Fall armyworm Flies beetles	Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 1/4 to 2 1/2	0	OBSERVE BEE CAUTION. For insects attacking silks and ears apply at 1 to 8 day intervals starting when first silks appear and continuing until silks begin to dry. For larvae in whorl and foliage feeders, apply as necessary. For chinch bugs use high gallonage ground application directed at the base of plants. Optimum timing and good coverage are essential for effective control.
	Western bean cutworm		2 1/2		Treat when infestation averages 15% and at 90% to 100% tassels emergence. Treatment after 100% silk emergence will reduce effectiveness.
	Cutworms		2 1/2 to 8		Apply in a 12 inch band, using 1/4 pound (4 ounces) per 1000 linear feet of row, in at least 15 gallons of water per acre. For broadcast application use up to 8 pounds in at least 20 gallons (ground) or 5 gallons (air) of water per acre.
*For application to Corn via Center Pivot Irrigation Systems refer to "Directions for Use Through Center Pivot Irrigation Systems."					
Cotton	Cotton leafhopper Cotton rootworm Flies beetles	Striped blister beetle Thrips	1/2 to 1 1/4	7	Early season insect control.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cotton (cont.)	Boll weevil Beltworm Cotton leafworm Fall armyworm Leafrollers	Leafhoppers Tarnished plant bug Yellow-striped armyworm (cotton cutworm)	1 1/4 to 2 1/2	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 1/4 to 2 1/2	For light to moderate populations in Western irrigated cotton.
	Pink bollworm		1 1/2 to 3	Aphid populations will be suppressed by repeated applications of this insecticide.
	Stink bugs Saltmarsh caterpillar	2 1/2		
Cucumber	Pickworm	Melworm	1/2 to 1 1/4	Observe plant response precautions.
Melons	Cucumber beetles	Leafhoppers Squash bugs	1 1/4	Avoid excessive applications.
Pumpkins	Flea beetles			
Squash				
Dandelion Endive (Escarole) Lettuce Salsify	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1 1/4	3 (head lettuce & salsify roots) Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.
	Aster leafhopper Lygus bugs	Spittlebugs	1 1/4 to 1 1/2	14 (dandelion, endive (escarole) leaf lettuce & salsify tops)
	Armyworm Corn earworm Fall armyworm	Imported cabbageworm Stink bugs Tarnished plant bug	1 1/4 to 2 1/2	
Forage grasses Pasture	Armyworm Black grass bugs Chinch bugs Essex skipper Fall armyworm	Range caterpillars Range crane fly Striped grass looper Thrips	1 1/4 to 1 1/2	0 To control thrips in grasses grown for seed use high spray pressure to improve penetration into boot.
	White grubs (green June beetle)		1 1/4 to 2 1/2	

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FORAGE, FIELD AND VEGETABLE CROP

Use at least 1 gallon of finished spray per acre for aerial application and at least 3 gallons of finished spray per acre for concentrate ground application.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
All Forage, Field and Vegetable Crops	Grasshoppers	1/2 to 1 1/4	See specific Forage, Field or Vegetable Crop	Use 1/2 to 1 1/4 pounds for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditch banks and borders. Use 1 1/4 to 1 1/2 pounds for adult grasshoppers or applications to dense vegetation.
Alfalfa Clovers	Blister beetles Mexican bean beetle	1/2 to 1 1/4	0 (clovers) 3 (alfalfa)	Observe plant response precautions.
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1 1/4	
	Alfalfa weevil larvae Armyworm Cloverhead weevil Corn earworm Cutworm Egyptian alfalfa weevil larvae Essex skipper	European alfalfa beetle Fall armyworm Lygus bugs Webworms Yellow-striped armyworm	1 1/4 to 1 1/2	For alfalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble. Use higher rate in areas east of the Rocky Mountains. On dense growth use 25 to 40 gallons per acre with ground equipment to ensure adequate coverage.
*For application to Alfalfa via Center Pivot Irrigation Systems, refer to "Directions for Use Through Center Pivot Irrigation Systems."				
Asparagus	Asparagus beetle	1 1/2 to 2 1/2	1	
	Apache cicada Asparagus beetle	2 1/2 to 5	Pre harvest application only	Treat ferns or bruen growth. Do not treat more than once every 3 days.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Beans (including black-eyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Beet beetles Mexican bean beetle	1/4 to 1 1/4	0 (except cowpeas) 3 (cowpeas)	Observe plant response precautions.
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Flea beetles Green cloverworm Japanese beetle	1 1/4		
	Armyworm Corn earworm Cutworm European corn borer	1 1/4 to 1 3/4		
	Cowpea curculio	2 1/2		
	Corn earworm Limbean pod borer	2 1/2		
Cabbage Broccoli Brussels Sprouts Cauliflower Kohlrabi	Flea Beetles Harlequin bug	1/4 to 1 1/4	3	CALIFORNIA ONLY
	Armyworm Corn earworm Fall armyworm	1 1/4 to 2 1/2		
Chinese cabbage Collards Hanover salad Horse radish Kale Mustard greens Radishes Rutabagas Turnips	Flea beetles Harlequin bug	1/4 to 1 1/4	3 (Horse radish, radishes, rutabagas and turnip roots) 14 (Chinese cabbage collards, Hanover salad, kale, mustard greens, and turnip tops)	
	Aster leafhopper	1 1/4 to 1 3/4		
	Armyworm Corn earworm Fall armyworm	1 1/4 to 2 1/2		
	Imported cabbageworm Sink bugs Tarnished plant bug			

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FOR CONTROL THROUGH CENTER PIVOT IRRIGATION SYSTEMS
Recommended dosages refer to pounds of SEVIN® brand 80S Carbaryl insecticide per acre. Consult the Directions for Use and General Precautions Through Center Pivot Irrigation Systems before application.

CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Alfalfa	Alfalfa caterpillar	1 1/4 to 2 1/2	0	Observe plant response precautions.
	Grasshoppers	2 1/2		
	Leafhoppers	1 1/4 to 2 1/2		
Corn (field sweet, pop)	Corn earworm	2 1/2	0	OBSERVE BEE CAUTION. Apply when first silks appear. If local populations warrant, a second application should be made 5 to 7 days after the first. Optimum timing is essential for effective control.
	European corn borer			Apply as necessary. Optimum timing is essential for effective control.
	Southwestern corn borer			
	Western bean cutworm			Make 2 applications. 1st application should be made at 60% egg hatch. Second application should be made at 98% egg hatch. Optimum timing is essential for effective control.
	Corn rootworm beetles Grasshoppers			Treat as necessary.
Potato	Colorado potato beetle European corn borer Flea beetle	2 1/2	0	Treat as necessary.

STORAGE AND DISPOSAL

STORAGE

Store unused SEVIN® brand 80S Carbaryl insecticide in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100°F.

PESTICIDE DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If bag is burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) 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 (c) 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 on food crops, 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.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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INSECT CONTROL

Apply when insects or their damage appear. To maintain control repeat at 7 to 14 day intervals or as necessary unless a shorter interval is specified below. Where a dosage range is indicated, use lower rate on young plants and early instars and higher rate on mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

SEVIN® brand 80S Carbaryl Insecticide does not control spider mites. If spider mites are a problem, use a registered miticide.

Regional differences have been noted in the susceptibility of certain strains of fall armyworm to SEVIN® brand 80S Carbaryl Insecticide. If your experience indicates inadequate control, use an alternative pesticide.

DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL WORKER PROTECTION STATEMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

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 treated area or in an area about to be treated with this product. Advise workers to stay out of fields during application and until sprays have dried. Regular long-sleeved work clothing should be worn when working in treated fields. See PRECAUTIONARY STATEMENTS, STATEMENT OF PRACTICAL TREATMENT and NOTE TO PHYSICIAN for information on accidental exposure. 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: appropriate signal word (WARNING), area treated with SEVIN® brand 80S Carbaryl Insecticide, date of application, appropriate clothing, and re-entry interval (i.e., until sprays have dried).

GENERAL INFORMATION

SEVIN® brand 80S Carbaryl Insecticide is a dry powder for dispersion in water and application as an insecticidal spray in hydraulic sprayers, mist blowers, low gallonage ground equipment and aircraft. READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL, AND STATE REGULATIONS.

PREHARVEST AND GRAZING USE INFORMATION AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing probable carbaryl residues when this product is used in accordance with 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. Application may be made without removing livestock from area being treated.

Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

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

PLANT RESPONSE PRECAUTIONS

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

Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury will result. During early season, it may also injure Virginia and sand pines.

Observe label instructions on apple thinning and on combinations with certain herbicides on rice and soybeans.

SPRAY PREPARATION

TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR OR RECIRCULATE ALL SEVIN® BRAND 80S CARBARYL INSECTICIDE SPRAY MIXTURES PRIOR TO AND DURING 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 $\frac{1}{4}$ to $\frac{1}{2}$ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SEVIN® brand 80S Carbaryl Insecticide, and then the remaining volume of water. 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 MIXTURES FOR PROLONGED PERIODS.

COMPATIBILITY

SEVIN® brand 80S Carbaryl Insecticide has been used without plant injury with most common insecticides, miticides, fungicides, nutrients, adjuvants and petroleum oil as used on citrus. If compatibility of SEVIN® brand 80S Carbaryl Insecticide with another product and the resulting crop response is unknown, it 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 mechanical difficulties or plant injury. Observe all cautions and limitations on labeling of all products used in mixtures. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD SEVIN® 80S CARBARYL INSECTICIDE TO AT LEAST $\frac{1}{4}$ THE DESIRED AMOUNT OF WATER, MIX THOROUGHLY, AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE, AND THEN THE REMAINING VOLUME OF WATER. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICATION PROBLEMS, EXCESSIVE RESIDUES OR PLANT INJURY.

Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein-lime spreaders.

APPLICATION

On all crops, use sufficient gallonage to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. Use 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles. Avoid applications just before rainfall as poor insect control may result. To clean spray system after use, drain and flush with water. Refer to the Storage and Disposal directions for proper disposal of rinse water.

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.

Avoid application to surfaces where visible spray residues are objectionable.

POULTRY INSECT CONTROL

POULTRY	INSECT	SPECIFIC DIRECTIONS
Chickens, Ducks, Geese, Gamebirds, Pigeons, and Turkeys	Chicken mite Fleas Lice Northern fowl mite	For use as a direct spray on birds by: 1. Misting with Electric Fog Machine: Mix $\frac{1}{4}$ pound (8 ounces) of this product in 1 gallon of spray. Use 1 $\frac{1}{2}$ gallons per 1000 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary, or 2. Spraying with knapsack or cylinder type compressed air sprayers: Mix $\frac{1}{4}$ pound (8 ounces) of this product in 8 gallons of spray. Use 1 gallon per 10 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. Direct mist spraying for chicken mite and fleas is a supplement to spraying roosts and buildings for control of these pests. Do not apply to poultry and game birds until 7 days of slaughter.

POULTRY QUARTERS	INSECT	SPECIFIC DIRECTIONS
Roosts and Buildings	Bedbugs Chicken mite Fleas Fowl tick Lesser mealyworms Lice Northern fowl mite	Spray roosts and buildings with conventional power spray or knapsack equipment. For chicken mite, fleas and bedbugs, use 5 pounds of this product per 100 gallons of water. For fowl ticks, use 20 pounds of this product per 100 gallons of water. For lesser mealyworms, use 62 $\frac{1}{2}$ pounds per 100 gallons. Spray 1 to 2 gallons per 1000 square feet of wall, bedding, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid spraying of nests, eggs and feeding and watering troughs until after while spraying. Do not treat premises within 7 days of slaughter.

WHERE SPRINKLER DISTRIBUTION PATTERNS DO NOT OVERLAP SUFFICIENTLY, UNACCEPTABLE INSECT CONTROL MAY RESULT. WHERE SPRINKLER DISTRIBUTION PATTERNS OVERLAP EXCESSIVELY, PLANT INJURY MAY RESULT ON SENSITIVE CROPS.

ALLOW SUFFICIENT TIME FOR PESTICIDE TO BE FLUSHED THROUGH ALL LINES AND ALL NOZZLES BEFORE TURNING OFF IRRIGATION WATER.

DIRECTIONS FOR USE THROUGH CENTER PIVOT IRRIGATION SYSTEM

Spray Preparation: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS:

Prepare a suspension of SEVIN® brand 80S Carbaryl Insecticide in a mix tank. Fill tank with $\frac{1}{2}$ or $\frac{3}{4}$ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product, and then the remaining volume of water. Suspension concentrations of 1½ to 2½ pounds of this product per 1 to 4 gallons of water are recommended.

Set sprinkler to deliver 0.1 to 0.3 inches of water per acre. Start sprinkler and then uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Note: When treatment with this product 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.

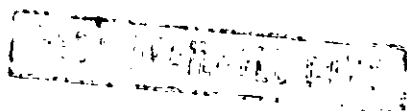
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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S	SPECIFIC DIRECTIONS
	be engraver beetle Mountain pine beetle Roundheaded pine beetle Western pine beetle	25	Effective as a preventive treatment only. Repeat annually as required to prevent beetle attacks. Apply 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.
	Elm bark beetle ✓		Apply approximately 20 to 30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunk, limbs, and twigs.

RECREATIONAL AREAS

CROP	INSECT	SPECIFIC DIRECTIONS
Turf grasses	Anla Armyworm Bluegrass bill up Caterpillars Chiggers Chin'th bug Cute ants Earwigs Essex skipper European chafar Fall armyworm Flary skipper Fleas Grasshoppers June beetles Leafhoppers Lucerne moth Maltipes Mosquitoes Sod webworm (green moths) Sowbugs Springtails Ticks White grubs Yellow-striped armyworm	Use 4 ounces of SEVIN® brand 80S Carbaryl Insecticide per 1000 square feet (10½ pounds per acre) of turf grass. Make applications in sufficient spray volume for thorough coverage and turf (soil) penetration. Repeat treatment as necessary. For Armyworm, Cutworms, Fall Armyworm and Sod Webworm Control: Do not irrigate treated areas following insecticide application. For Chin'th 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 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.

SITE	BRAND 80S/ 100 GALLONS OF WATER	SPECIFIC DIRECTIONS
Cemeteries, and Recreational Areas (including turf, golf courses, and parks) Pastures Rangeland Forested Lands and Wetlands	2	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, 65-80° F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized spray may disturb the ants and cause migration, reducing product effectiveness.



SMALL FRUIT CROPS

Recommended dosages refer to pounds of SEVIN® brand 80S Carbaryl insecticide per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonages per acre range from 100-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	INSECT		POUNDS OF SEVIN® BRAND 80S/ACRE	PRE- HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (including boysen- berries and loganberries)	European raspberry aphid Japanese beetle	Leafhoppers Leafrollers Rose chaffer Snowy tree cricket	1½ to 2½	7	
	Omnivorous leafroller Raspberry sawfly		2½		CALIFORNIA ONLY.
Blueberries	Blueberry maggot Cherry fruitworm Cranberry fruitworm	European fruit lecanium Japanese beetle	1½	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworm Cranberry fruitworm Cranberry fruitworm	Japanese beetle Leafhoppers Rose chaffer	1½ to 3½	1	CAUTION! May kill shrimp and crabs. Do not use in areas where these are impor- tant resources. Apply in late bloom and as needed at 7 to 10 day intervals.
Grapes	European fruit lecanium Grape leafroller Grape leafhopper	Western grapeleaf skateborer Western yellow/and armyworm	1½ to 2½	0	Apply before first brood leaf- folder larvae emerge from rolls.
	Cutworm Eight spotted forester Grape berry moth Japanese beetle June beetles	Orange tortrix Omnivorous leafroller Redbanded leafroller Sawtooth caterpillar	2½		
Strawberries	Flea beetles Meadow spittlebug Omnivorous leafroller (strawberry fruitworm)	Strawberry leafroller Strawberry weevil	1½ to 2½	1	Carbaryl may injure Early Dwarf and Sunco varieties or the larvae Partheno.

7. 14

For aerial applications 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 spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds.

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CROP	INSECT	POUNDS OF SEVIN® BRAND 80S/100 GAL	15-20 DAY HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Chestnuts	Chestnut weevil	2 1/4 to 3 1/4	0	DO NOT USE IN CALIFORNIA. 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)	Avocado leafroller California orange dog Citrus cutworm Citrus root weevil Fruitree leafroller Black scale Brown soft scale California red scale	Orange tortrix Western tussock moth West Indian sugarcane borer (adults) 1 1/4 1 to 1 1/4	5	Do not apply more than 25 pounds of this product per acre per application. Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.
Fibbert	Fibbert aphid Fibbert leafroller Fibbertworm	1 1/4	0	Apply when leafroller eggs are hatching. Repeat on first appearance of adult Fibbert moths and again 3 to 4 weeks later.
Olive	Olive scale	1 to 1 1/4	0	For optimum scale control add 1 1/4 gallons of summer oil and apply mixture when crawlers are present. Do not exceed 2 applications per year. Do not apply more than 18 1/4 pounds of this product per acre per application.
Peaches Apricots Nectarines	Apple pomonid Codling moth Cucumber beetles European sawfly Fruitree leafroller Japanese beetle June beetles 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 leaf-eater	1 1/4 1 (peaches) 3 (apricots and nectarines)	Do not apply more than 7 1/2 pounds of this product per acre per application to apricots. For optimum scale control apply when crawlers are present. Spray trunks and trunk thwarts 1/2 to 1 inch during mid-July.

CROP	INSECT	POUNDS OF SEVIN [®] BRAND 80S/100 GAL	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Pecans	Black margined aphid Fall webworm Hickory shuckworm Lesser webworm Pecan leaf phylloxera Pecan nut casebearer Pecan applebug Pecan stem phylloxera Pecan weevil Twig girdler Walnut caterpillar	1 1/4 to 3	0	Do not apply more than 9 pounds of this product per acre per application.
Pistachios	Naval orangeworm	3/4 to 2 1/2	14	Apply dilute volumes of 150 to 300 gallons of mixed spray per acre for full coverage at onset of hull split.
Plums Prunes Cherries	Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot European sawfly Eyedotted bud moth Forbes scale Fruitree leafroller Green fruitworm Japanese beetle Lecanium scales Lesser peach tree borer Mealy plum aphid Oystershell scale Peach twig borer Plum curculio Prune leafhopper Redbanded leafroller Rose chaler San Jose scale Variegated leafroller Orange tortrix Tussock moth caterpillar	1 1/4	1	Do not apply more than 7 1/2 pounds 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, weekly during moth flight.
Walnut	Calico scale European fruit lecanium Fibbertworm Fruitree leafroller Frosted scale Coddling moth European sawfly	1/2 2 1/2	0	Apply 1000 gallons of dilute spray per acre for mature trees. For coddling 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. Spray tree trunks to point of run-off.

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Sevin[®] brand **80S**

Carbaryl Insecticide

For Agricultural or Commercial Use Only

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate)80 % by wt.

INERT INGREDIENTS:20 % by wt.

E.P.A. Reg. No. 264-316

E.P.A. Est. No. ^(E)477-MD-01, ^(F)32761-MO-3, ^(T)477-TX-01

Refer to first letter of lot number
for packaging location.

KEEP OUT OF REACH OF CHILDREN
WARNING **AVISO**

PRECAUTIONARY STATEMENTS:
See Inside Booklet.

PRECAUCION AL USARIO: Si usted no lee ingles, no use este
producto hasta que la etiqueta le haya sido explicada
ampliamente.

IN CASE OF EMERGENCY TELEPHONE:
(24 HOURS A DAY) IN U.S.A. 1-800-UCC-HELP
FOR GENERAL PRODUCT INFORMATION CALL 800-334-8745.

UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.
P. O. Box 12014, T. W. Alexander Drive, Research Triangle Park, NC 27709
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