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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS	EPA REGISTRAT NO. 264-423	DATE OF ISSUANCE				
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	TERM OF ISSUANCE					
NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION	NAME OF PESTICIDE PRODUCT Sevin Brand FL Ca	ırbaryl				
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	Insecticide	·				
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)						
⊢	٦					
Union Carbide Agricultural Products P.O. Box 12014	CO., Inc.					
T.W. Alexander Drive						
Research Triangle Park, NC 27709	T					
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NOTE: Changes in labeling formula differing in substance fr submitted to and accepted by the Registration Division prior product always refer to the above U.S. EPA registration num	to use of the label in commerce.					
On the basis of information furnished by the registrant, the the Federal Insecticide, Fungicide, and Rodenticide Act.	above named pesticide is hereby l	Registered/Reregistered under				
A copy of the labeling accepted in connection with this Reg	istration/Reregistration is return	ed herewith.				
Registration is in no way to be construed as an indorsement health and the environment, the Administrator, on his motion icide in accordance with the Act. The acceptance of any nat Act is not to be construed as giving the registrant a right to by others.	n, may at any time suspend or can me in connection with the registra	cel the registration of a pest- tion of a product under this				
This product is conditionally regis $3(c)(7)(A)$ provided that you:						
 Submit and/or cite all data red of your product under FIFRA sec. 3(c)(*	•				
registrants of similar products to subm	nit such data.					
Add the phrase "EPA Registration you release the product for shipment.	on No. 264-423" to your	c label before				
3. Submit five (5) copies of your	•	= = = = = = = = = = = = = = = = = = = =				
release the product for shipment. Refe description of final printed labeling.	er to the A-79 Enclosu	ce for a further				
It these conditions are not complications	ed with, the registrati	ion will be				
subject to cancellation in accordance w						
shipment of the product constitutes acc A stamped copy of the label is encl						
	•					
Jav	y S. Ellenberger					
pro	oduct Manager (12)					
	secticide-Rodenticide gistration Division (TS					
IN.	draffer we transfer the	, , , , , ,				
Enclosure						
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ATTACHMENT IS APPLICABLE						
SIGNATURE OF APPROVING OFFICIAL		DATE				
EPA Form 8570-6 (Rev. 5-76) PREVIOUS EDITION	MAY BE USED UNTIL SUPPLY IS E	[[]],-				

92950:Ellenberger:154787:RD-84:KENCO:11/5/85:11/15/85:DKD:VO

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SEVIN® brand FL Carbaryl Insecticide

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For Agricultural or Commercial Use Only		
ACTIVE INGREDIENT: Carbaryl (1-naphthyl N-methylcarbamate)	43	.4% by wt.
INERT INGREDIENTS (Contains 4 Pounds Carbaryl Per Gallon)	56	.6% by wt.
E.P.A. Reg. No. 264-	E.P.A. Est. No.	264-M0-02
KEEP OUT OF REACH OF	CHILDREN	
CAUTION		
See page 2 for additional PRECA	UTIONARY STATEMENTS.	
IN CASE OF EMERGENCY TELEPHONE COLLECT	(24 HOURS A DAY) IN U.S.	Α.
(304) 744-348	7.	
FOR GENERAL PRODUCT INFORMATIO	N CALL 800-334-9745.	
NET CONTENTS:		
Made in U.S.A.		
©UNION CARBIDE AGRICULTURAL PRO P. O. Box 12014, T. W. A Research Triangle Par	lexander Drive	
SEVIN is a registered trademark of Union Carinsecticides.	bide Corporation for carb	paryl
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	ACCEPTED with COMMENTS	
APC Form No	in EPA Letter Bated:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
·	NOV 0 8 1985	t 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Under the Federal investigit. Fungicide, and it is to be as amended. registered upder EVA 19.	
0327G/PENDING/04-23-85		

PRECAUTIONARY STATEMENTS

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CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

MAY BE HARMFUL IF SWALLOWED. Avoid breathing spray mist. Do not take internally. Avoid contact with eyes, skin or clothing. Wear regular long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling.

ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. See NOTE TO PHYSICIAN below.

STATEMENT OF PRACTICAL TREATMENT

GENERAL.

Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN.

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

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

IF ON SKIN. Wash thoroughly with soap and water.

IF INHALED: Move from contaminated atmosphere and call a physician.

NOTE TO PHYSICIAN

Carbaryl is a carbamate insecticide, which is a chloinesterase 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.

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 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.

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Consultation on therapy can be obtained at all hours by calling the Union Carbide emergency number (304) 744-3487.

ENVIRONMENTAL HAZARDS

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 fields may kill aquatic and estaurine invertebrates. Do not apply when weather conditions favor drift from area treated. 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 on blooming crops or weeds. However, field studies have shown that SEVIN® brand FL Carbaryl Insecticide is less hazardous to honeybees than other carbaryl products when direct application to bees is avoided and the spray residues have dried. For maximum honeybee hazard reduction, apply SEVIN® brand FL Carbaryl Insecticide from late evening to early morning or when bees are not foraging. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area. However, applications may be made during foraging periods if the beekeeper takes one of the following precautionary measures prior to bee flight activity on the day of treatment: (1) Confine the honeybees to the hive by covering the colony or screening the entrance or; (2) locate hives beyond bee flight range from the treated area. Precautionary measures may be discontinued after one week. Contact your cooperative Agricultural Extension Service or your local Union Carbide Agricultural Products Company representative for further information.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

SEVIN® brand FL Carbaryl Insecticide is a suspension of microfine SEVIN carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by air or ground. READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS, AND APPLICABLE FEDERAL AND STATE REGULATIONS.

GENERAL WORKER PROTECTION 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.

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. Advise workers to stay out of fields during application and until sprays have dried. Regular long-sleeved work clothing shou doe worn when working in treated fields. See PRECAUTIONARY STATEMENTS, STATEMENT OF PRACTICAL TREATMENT and NOTE TO PHYSICIAN for information on accidental exposures. 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 (CAUTION), area treated with SEVIN® brand FL Carbaryl Insecticide, date of application, appropriate clothing, and re-entry interval (i.e, until sprays have dried).

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 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. 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 incarbaryl 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 PRODUCT, AGITATE, STIR OR RECIRCULATE ALL CONTAINERS OF "SEVIN®" BRAND FL CARBARYL INSECTICIDE 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® brand FL Carbaryl Insecticide, 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.

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WASHOFF RESISTANCE AND COVERAGE

Dilution of 1 volume of SEVIN® brand FL Carbaryl Insecticide with 1 volume of water will allow maximum resistance to washoff by rainfall or overhead irrigation. Dilutions higher than 1:39 are not recommended when washoff resistance is desired.

SEVIN® brand FL Carbaryl Insecticide must be diluted as stated above, and droplets must dry on the foliage before they become washoff resistant. When atmospheric humidity is low, a drying time of at least one hour is generally adequate. Under high humidity a longer drying time may be required. Washoff resistance cannot be expected if SEVIN® brand FL Carbaryl Insecticide is applied to wet foliage which does not dry adequately 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, dry weather, or when humidity is low, higher spray gallonage per acre may be required to minimize 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® brand FL Carbaryl Insecticide, when diluted with 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 of SEVIN® brand FL 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 al! cautions and limitations on labeling of all products used in mixtures. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD "SEVIN®" BRAND FL CARBARYL INSECTICIDE 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, 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. The flow rate of SEVIN® brand FL Carbaryl Insecticide 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 a water and detergent mixture. Rinse thoroughly with clean water. Refer to the Storage and Disposal directions for proper disposal of this water and detergent mixture and rinse water.

INSECT CONTROL

Apply when insetts 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 FL 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 FL Carbaryl Insecticide. If local experience indicates inadequate control, use an alternative pesticide.

FORAGE, FIELD AND VEGETABLE CROPS

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Apply in sufficient spray volume to obtain thorough coverage. Where maximum washoff resistance is needed, use (vol/vol) dilution with water. Do not dilute greater than 1:39 where washoff resistance is desired. To prespray, use 1 tablespoonful (1/2 fluid ounce) of SEVIN brand FL Carbaryl Insecticide per gallon of water where per acre or 1 quart per 100 gallons are indicated in the tables below.

CROP	INSECT		QUARTS OF "SEVI BRAND FL 100 GALS	INTERVAL	SPECIFIC DIRECT
All Forage, field and Vegetable Crops in This Section	Grasshoppers		1/2 to 1 1/	/2 See specific Forage, Field or Vegetable Crop	Use 1/2 to 1 qu small plants or wasteland, rang and borders. U for adult grass applications to
Alfalfa Clovers	Blister beetles Mexican bean beetl	e	1/2 to 1	0 (clovers)	Observe plant r
	Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	(alfaifa)	
	Alfa'fa weevil larvae Armyworm Cloverhead weevil Corn earworm Cutworms Egyptian alfalfa weevil larvae Essex skipper	European alfalfa beetle Fall armyworm Lygus bugs Stink bugs Webworms Yellowstriped armyworms	1 to 1 1/2		For alfalfa wee pretreatment da alfalfa and cre higher rate in Rocky Mountains 25 to 40 gallon equipment to en coverage.
Asparagus	Asparagus beetle		1 to 2	1	Treat ferns or
	Apache cicada Asparagus beetle		2 to 4	Post harvest apapplication only	Do not treat mo days.

CROP	INGECT		QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Beans (including	Blister beetles Mexican bean beetl	e	1/2 to 1		Observe plant response precautions
blackeyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Alfalfa caterpilla: Bean leaf beetles Cucumber beetles Flea beetles Green cloverworm Japanese beetle	Leafhoppers Three cornered alfalfa hopper Thrips Velvetbean caterpillar Western bean cutworm	1	(except cowpeas) 3 (cowpeas)	
	Armyworm Corn earworm Cutworms European corn borer	Fall armyworm S;ink bugs Tarnished plant bug Webworms	1 to 1 1/2	_	
	Cowpea curculio		2	-	
	Corn earworm Limabean pod borer	Lygus bugs Stink bugs	2	_	CALIFORNIA ONLY

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CROP	INSECT		QUARTS OF "SEVIN" BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cabbage Broccoli	Flea beetles	Harlequin bug	1/2 to 1	3	
Brussels sprouts Cauliflower Kohlrabi	Armyworm Corn earworm Fall armyworm	Imported cabbage- worm	1 to 2	-	
Chinese cabbage Collards Hanover salad Horseradish	fica beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (horseradish, radishes, ruta- bagas and turnip roots)	
Kale Mustard greens	Aster leafhopper		1 to 1 1/2	- 14 (Chinese cab-	
greens Radishes Rutabagas Turnips	Armyworm Corn earworm Fall armyworm	Imported cabbage worm Stink bugs Tarnished plant bug	1 to 2	bage, collards, Hanover salad, kale, mustard greens, and turnip tops)	
Carrots Celery Parsley	fiva beetles	Leafhoppers	1/2 to 1	(carrots)	DO NOT USE ON CELERY IN CALIFORNIA.
Parsnips	Aster leafhopper Lygus bugs	Spittlebugs	1 to 1 1/2	3 (parsnips)	Treat on a 5 to 7 day schedule.
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	14 (celery & parsley)	

CROP	INSECT		QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPE-:IFIC DIRECTIONS
Corn (field, sweet, pop)	Armyworm Chinch bugs Corn earworm Corn rootworm adults European corn borer Fall armyworm	rmyworm flea beetles hinch bugs Japanese beetle orn rootworm Southwestern adults corn borer uropean corn Leafhoppers	1 to 2	0	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 follage 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.
	Western bean cutworm		2		Treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
	Cutworms		2 to 6 1/2		Apply in a 12 inch band, using 6 fluid ounces per 1000 linear feet of row, in at least 15 gallons of water per acre. For broadcast application use 6.5 quarts in at least 20 gallons (ground) or 5 gallons (air) of water per acre.

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Port 74. OUARTS OF "SEVIN " PREHARVEST BRAND FL INTERVAL CROP INSECT ACRE (DAYS) SPECIFIC DIRECTIONS Cotton fleshoppen Cotton Striped blister 1/2 to 1 Early season insect control. Cotton leafworm beetle Flea beatles Thrips Boll Veevil Tarnished plant Treat on a 5 to 7 day schedule for as long as control is necessary. Mid Bolivorms bua Yelloystriped Cotton leaf-1 to 2 and late season insect control. May perforator armvvorm be applied after bolls open. Fall armyworm icotton Leafrollers cutworm) Leafhoppers For light to moderate populations in 1 to 2 Lyaus buas Western irrigated cotton. Pink bollvorm 1 1/2 to 2 1/2 Aphid populations will be suppressed by repeated applications of this Saltmarsh cater-2 insecticide. Stink bugs pillar Observe plant response precautions. Cucumber Pickleworm Melonyorm 1/2 to 1 Melons O Cucumber beetles Leathonners Avoid excessive applications. Pumpkin Squash Fina benties Squash bugs Observe plant response precautions. Dandelion Flea beetles Leafhoppers 1/2 to 1 (head lettuce & End ive Halequin bug salsify roots) (Escarole) Lettuce Treat on a 5 to 7 day schedule after Salsify heads begin to form. Aster leafhopper Spittlebugs 1 to 1 1/2 Lyous bus 14 (dandelion, endive (escarole). Armyworm Imported Corn earworm cabbage worm 1 to 2 leaf lettuce & Fall armyworm Stink bugs salsify tops) Tarnished plant bug Range catern To control thrips in grasses grown Forage Grasses Armyworm pillars for seed use high spray pressure to Pasture Black grass bugs 1 to 1 1/2 Chinch bugs Range crane fly improve penetration into boot. Rangeland

Essex skipper

Fall armyworm

White grubs (green June beetle)

Striped grass

looper Thrips

1 1/2 to 2

CROP	INSECT		QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST) NTERVAL (DAYS)	SPECIFIC DIRECTIONS
Garden beet Spinach Swiss chard	Flea beetles Harlequin bug	Leafhoppers	1/2 to 1	3 (garden beet	Treat on a 5 to 7 day schedule.
	Aster leafhopper		1 to 1 1/2	roots) 14	
	Armyworm Corn earworm Fall armyworm	Stink bugs Tarnished plant bug	1 to 2	(garden beet tops, spinach, Swiss chard)	
Okra	Corn earworm	Stink Bugs	1 to 2	0	Treat on a 5 to 7 day schedule.
Peanuts	Blister beetles	Mexican bean beetle	1/2 to 1		Observe plant response precautions
	Alfalfa cater- pillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Rednecked peanutworm Three cornered alfalfa hopper Thrips Velvetbean cater- pillar		- 0	
	Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 to 1 1/2	_	
	Whitefringed beet Cutworms	le adults	5	_	
Peas	Colorado potato beetle Leafhoppers		1	3	
	Armyworm		1 to 1 1/2	_	
	Alfalfa catur- pillar Cutworms Pea leaf weevil	Pea weevil Yellowstriped armyworm	1 1/2	_	
	Alfalfa looper		2 1/2		WASHINGTON STATE ONLY

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CROP	INSECT		QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Potato Tomato Eggplant Pepper	Colorado potato beetle Flea beetles Leafhoppers		1/2 to 1		
	European corn borer Fall armyworm Lace bugs Stink bugs	Tarnished plant bug Tomato fruitworm Tomato hornworm Tomato pinworm	1 to 2	0	
	Cutworms		2	-	
Rice	Armyworm Chinch bugs	fall armyworm Stink bugs	1 to 1 1/2	14	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	- 	CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when pest first appears.
Sorghums (milo, grain sorghum, sweet sorghum and	Armyworm Chinch bugs Corn earworm	fall armyworm Stink bugs Webworms	1 to 2	21 (grain)	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
hybrids)	Sorghum midge Southwestern corn borer		1 1/2	0	are in bloom. Repeat application 3 to 5 days later if adults are still
	Cutworms		2	(forage)	active. A third application may be necessary in late planted sorghum if midge are abundant. For chinch bugs use high gallonage ground application directed at the base oplants.

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CROP	INSECT		OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Soybeans	Bean leaf beetle Cucumber beetles Green cloverworm	Mexican bean beetle Velvetbean caterpillar	1/2	0	DO NOT APPLY A COMBINATION OF THIS PRODUCT and 2,4 DB HERBICIDES TO SOYBEANS AS CROP INJURY MAY RESULT.
	Corn earworm		1/2 to 3/4 1 to 1 1/2		Use lower rates for light to mode- rate populations and smaller instars. Use the higher rates for heavy populations and larger instars.
	Blister beetles Grape colaspis Mexican bean beetl	e	1/2 to 1		•
	Alfalfa cater- pillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1		
	Armyworm Cutworms	Fall armyworm Stink bugs Webworms	1 to 1 1/2		
	Painted lady (Thistle cater- pillar)	Saltmarsh cater- pillar Yellowstriped armyworm	2 to 2 1/2		
Sugar beets	Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 to 1 1/2	14	
	Cutworms		1 1/2	•	
Sunflower	Cutworms		1 1/2	60	DO NOT USE IN CALIFORNIA.
	Armyworm Fail armyworm	·	1 1/2 to 2	-	
	Stem weevil	Sunflower beetle	1 to 2	•	

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CROP	INSECT	QUARTS OF "SEVIN " BRAND FL ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Sweet Potato	Corn earworm Cucumber beetles Flea beetles Sweet potato	1 to 2		DO NOT USE IN CALIFORNIA. Apply as a foliar spray as needed.
	hornworm Tortoise beetles		0	
	Yellowstriped armyworm	2		•
	Sweet potato weevil		1 to 2	FOLIAR APPLICATION Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
Tobacco	Tobacco flea beetle	2 Tbs/gallon or 1 qt/50 gal. and apply 6 gal/100 sq. yards	0	IN PLANT BEDS To prevent plant injury, avoid excessive applications.
	Green June beetle grubs	1/2 qt/100 gallons		Apply only to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per 100 square yards.
	Budworms Japanese beetle Fall armyworm June beetle Flea beetles Suckfly Hornworms	1 to 2		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 priming or cutting.
Wheat	Cereal leaf beetle	1	0 (forage)	DO NOT USE IN CALIFORNIA. Application is effective against eggs, larvae and adults.
	Armyworm Fail armyworm	1 to 1 1/2	21 (grain)	

TREE FRUIT AND NUT CRCPS

for dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays increase the concentration of SEVIN brand FL 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 of aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	QUARTS OF "SEVIN" BRAND FL 100 GAL.	PREHARVEST 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.
Apples only	1/4 to 1/2	1	For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.
	1/2 to 1	1	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.

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CROP	INSECT		QUARTS OF "SEVIN BRAND FL 100 GALS,	11	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach twig borer San Jose scale Fruittree leafroller		1		28	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					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	Apple aphid Apple rust mite	Lygus bugs Orange Tortrix				WEST OF THE ROCKY MOUNTAINS
	Bagworms Pear I California pearsing bilst (pear sawfly) Pear p Codling moth Pear r Eyer Sted bud San Jo moth Tentfo Green fruitworm miner	Oystershell scale Pear leaf blister mite	3/4 to 1		1	To avoid undesired apple thinning, delay use until at least 30 days after full bloom.
		Pear psylla Pear rust mite San Jose scale Tentform leaf- miners Woolly apple	le f-			For psylla control apply when eggs hatch or young nymphs are present.
	<u>Lesser appleworm</u> Apple mealybug Apple aphid	aphid White apple leafhopper	1/2		1	EAST OF THE ROCKY MOUNTAINS
	Codling moth Apple maggot Apple rust mite Bagworms Eastern tent	Pear psylla Pear leaf blister mite Pear rust mite	1 oda			To avoid undesired apple thinning, delay use until at least 30 days after full bloom. For optimum scale control apply when crawlers are present.
	caterpillar European apple sawfly Eyespotted bud moth	Periodical cicada Plum curculio Redbanded leaf- roller Rosy apple aphid				
	Forbes scale Fruittree leafrolier Green fruitworm Japanese beetle	San Jose scale Tarnished plant bug Tentiform leafminers				
	Lecanium scales Lesser appleworm Oystershell scale	Woolly apple aphid Yellowheaded fireworm				

CROP	INSECT		QUARTS OF "SEVIN " BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Chestnuts	Chestnut weevil		2 to 3	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 grape- fruit, lemons, limes, oranges,	Avocado leafroller California orangedog Citrus cutworm	Orange tortrix Western tussock moth West Indian	1		Do not apply more than 20 quarts of this product per acre per application.
tangelos, tangerines, citrus citron,	Citrus root weevil Fruittree leafroller	sugarcane borer (adults)		5	Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum
kumquats and hybrids) Black scale	Brown soft scale California	Citricola scale Citrus snow scale Yellow scale	3/4 to 1		oils commonly used on citrus.
Filbert	Filbert aphid Filbert leafroller Filbertworm		1	0	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.
Olives	Olive scale	3/4 to 1	0		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 Apricots Nectarines	Apple pandemis Codling moth Cucumber beetles European earwig	Orange tortrix Oriental fruit moth Peach twig borer		1	Do not apply more than 6 quarts of this product per acre per application to apricots.
	Fruittree leafroller Periodical cleads Japanese beetle Plum curculio Redbanded leaf- Lecanium scales roller Lesser peachtree borer Tarnished Olive scale plant bug Tussock moths Variegated Leafroller	1	(peaches) 3 (apricots & nectarines)	For optimum scale control apply when crawiers are present. Spray limbs and trunk thoroughly, weekly during moth flight.	

CROP	INSECT		QUARTS OF "SEVIN" BRAND FL 100 GALS.	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Pecans	Black margined aphid	Pecan stem phylloxera			Do not apply more than 7.2 quarts of this product per acre per
application.	Fall webworm Hickory shuck- ' worm Lesser webworm P(can leaf phylloxera	Pecan nut casebearer Pecan spittlebug Pecan weevil Twig girdler Walnut caterpillar	1 to 2 1/2	0	
Pistachios	Navel orangeworm		1/2 to 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 earwig	Lesser peachtree borer Mealy plum aphid Oystershell scale Peach twig borer	1		Do not apply more than 6 quarts of this product per acre per application. For optimum scale control apply when
	Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Japanese beetle Lecanium scales	Plum curculio Prune leafhopper Redbanded		1	for lesser peachtree borer control spray limbs and tree trunks thoroughly, weekly during moth flight.
	Codling moth Eastern tent caterpillar	Orange tortrix Tussock moth	3/4		

CROP	INSECT		QUARTS OF "SEVIN " BRAND FL 100 GALS,	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Wa I nut	Calico scale European fruit lecanium	Filbertworm Fruittree leafroller Frosted scale	1/2	0	Apply 1000 gallons of dilute spray per acre for mature trees.
	Codling moth	,	1/2	_	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.
	European earwig		2	-	Spray tree trunks to point of run-off.

SMALL FRUIT CROPS

Recommended dosages refer to quarts of SEVIN brand FL Carbaryl insecticide per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonage 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		QUARTS OF "SEVIN " BRAND XLR PLUS ACRE	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (including boy- senberries and loganberries)	European raspberry aphid Japanese beetle	Leafhoppers Leafrollers Rose chafer Snowy tree cricket	1 to 2	7	
	Omnivorous leafroll Raspberry sawfly		2		CALIFORNIA ONLY
Blueberries	Blueberry maggot Cherry fruitworm Cranberry fruitworm	European fruit lecanium Japanese beetle	1 1/2 to 2	0	Apply 3 weeks before harvest and repeat as necessary.
Cranberries	Cutworms Cranberry fireworms Cranberry fruitworms	Japanese beetle Leafhoppers Rose chafer	1 1/2 to 3	1	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.

CROP	INSECT		QUARTS OF "SEVIN BRAND FL ACRE	11	PREHARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Grapes	European fruit lecanium Grape leaffolder Grape leafhopper	Western grapeleaf skeletonizer Western yellow- striped army- worm	1 to 2		0	Apply before first brood leaffolder larvae emerge from rolls.
	Cutworms Eight-spotted forester Grape berry moth Japanese beetles June beetles	Orange tortrix Omnivorous leafroller Redbanded leafroller Saltmarsh cater- pillar	2		Ü	
Strawberries	Fies beetles Meadow spittlebug Omnivorous leaftier (strawberry fruit- worm)	Strawberry leaf- roller Strawberry weevil	1 to 2		1	Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.

TREES AND ORNAMENTALS

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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 brand FL Carbaryl Insecticide per gallon of water, where rates of 1 quart are indicated. For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreations 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.

			QUARTS O Brand Fl	L SEATH	n
CROP	INSECT		A or 100		SPECIFIC DIRECTIONS
GROUND APPLICATION: Trees (Including shade trees, shelter belts, forests, planttions, parks and recreational areas). Ornamentals (including roses, flowers and other herbaceous plants.), Woody Plants and Shrubs. AERIAL APPLICATION: forest Trees (including shade trees, shelter belts, forests, plantations, parks and receational areas) and Commercially Grown Ornamentals (including roses, flowers and other herbaceous plants), Woody Plants and Shrubs	Ants Apple aphid Armyworm Azalea leaf- miner Bagworms Birch leafminer Blister beetle Boxelder bug Boxwood leaf- miner Brown tall 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 aphid Elm leaf aphid Elm leaf beetle Elm spanworm Eriophyid mites European pine shoot moth Fall armyworm Flea beetles Fuller rose beetle Gall midges	Grasshoppers Gypsy moth Hackberry nipplegall maker Holly bud moth Holly leafminer Jackpine bud- worm Japanese beetle Jeffrey pine needleminer June beetles Lace bugs Leafhoppers Leafrollers Locust borer Maple leaf- cutter Mealybugs Mimosa webworm Nantucket pine tip moth Oak leafminers Oak leaf skeletonizer Oakworm complex Oleander cater- pillar Olive ash borer Orange-striped oakworm Orange tortrix Periodical cicada	Plant bugs Poinsettia horn- worm Psyllids Puss caterpillar Redhumped oakworm Rose aphid Rose chafer Roseslug Saddled prominent Sawflies (exposed) Scale insects Sowbugs Spiney elm caterpillar Springtalls Spruce budworm Spruce needle- miner Subtropical pine tip moth Tent cater- pillars Thorn bug Thrips (exposed) Ticks Walnut cater- pillar Webworms Western hemlock looper Western spruce budworm	1	Observe plant response precautions. Apply dilute sprays 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.

CROP	INSEC	э т		QUARTS OF "SEVIN " BRAND FL	SPECIFIC DIRECTIONS
Trees and ornamentals (cont.)	Gall wasps Green striped mapleworm	Pine sawfly Pine spittlebug Pitch pine tip moth	Willow leaf beetles Yellow poplar weevil		
	ips engraver bee Mountain pine be Roundheaded pine Western pine bee	eetle e beetle		20	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 20-30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs.

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LAWNS AND RECREATIONAL AREAS

CROP	INSECT		SPECIFIC DIRECTIONS
Lawns and Rec- reational areas (including turf, golf courses and parks)	Ants Armyworm Bluegrass billbug Centipedes Chiggers Cutworms Earwigs Essex skipper European ch fer Fall armyworm Fleas Grasshoppers	June beetles Leafhoppers Lucerne moth Millipedes Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks Yellowstriped armyworm	Use 1 quart of this product in 150 to 200 gallons of spray mixture per 5000 square feet of established lawn, recreational area, roadway or path border. For best results, mow lawn and apply after watering or rain. Insure good penetration of turf. Carden hose or pressure applications may be used. Repeat 2 to 3 weeks later if necessary.
	Chinch bugs White grubs		Use 1 1/2 quarts of this product in 150 to 200 gallons of spray per 5000 square feet.

IMPORTED FIRE ANT CONTROL

To prepare small amounts, use 1 tablespoon (1/2 fluid ounce) of SEVIN brand FL Carbaryl Insecticide per gallon of water.

SITE	QUARTS OF "SEVIN" BRAND FL 100 GALLONS OF WATER	SPECIFIC DIRECTIONS
Lawns, Cemeteries and Recreational	1 1/2	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,
Areas (including		or other appropriate equipment. Thoroughly wet mound and surrounding area
to turf, golf course:	s ,	a 4 ft. diameter (12 sq. ft). Do not disturb mounds prior
to treatment. and parks) Pastures		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 Rangeland		weather, 65-80 degrees F, or in early morning or late evening hours.
Repeat Forested Lands and Wasteland		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.

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 brand FL Carbaryl Insecticide per gallon of water, where rates of 1 quart are indicated.

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.

	QUARTS OF "SEVIN " BRAND FL/100 GAL.	SPECIFIC DIRECTIONS
		ADULT MOSQUITOES
Pastures, Rangelands, Parks, Recreational Areas,	1/4 to 1 (1/2 to 1 tablespoonful per gallon)	CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. OBSERVE BEE CAUTION
Logging Camps, Military Posts and Adjacent Forested Lands or Wastelands	•	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	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.

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PEST CONTROL AROUND BUILDINGS LIMITED TO PEST CONTROL OPERATORS ONLY

INSECT	QUARTS OF "SEVIN " BRAND FL/100 GAL,	SPECIFIC DIRECTIONS
		For external use around buildings only. Do not treat animals.
Ants Cockroaches	20 (20 tablespoonsful/ gallons)	Apply as a course wet spray or with a paint brush to outdoor sleeping quarters of pets, outside perimeter of dwellings and other areas where insects tend to congregate.
Brown dog tick Earwigs Fleas Millipedes Silverfish Spiders	10 (10 tablespoonsful/ gallon)	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 ROOSTS AND BUILDINGS ONLY			
POULTRY QUARTERS	QUARTS OF "SEVIN " BRAND FL/100 GAL,	SPECIFIC DIRECTIONS	
Bed bugs Chicken mite Fleas Lice Northern fow! mite	ц	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.	
Fow1 tick	16	Ventilate while spraying. Do not treat premises within 7 days of slaughter.	
Lesser mealworms	50	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.	

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

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If container 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.

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