

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number: 829-290

Date of Issuance:

Until

Term of Issuance:

APR 1 2 1995

NOTICE OF PESTICIDE:

<u>x</u> Registration Reregistration

Name of Pesticide Product:

Name of Pesticide Product:

SA-50 Dursban 1E Insecticide

Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Southern Agricultural Insecticides, Inc.

P.O. Box 218

Palmetto, Florida 34220

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 829-290".
- 3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Signature of Approving Official:

Date:

Dennis H. Edwards, Jr.

Product Manager (19)
Insecticide-Rodenticide Branch

Registration Division (7505C)

EPA Form 8570-6

1

APR 1 2 1995



Dursban* 1-E Insecticide



Controls numerous pests around homes and various pests injurious to trees, turf, ornamental plants and shrubs, and certain vegetables, fruits, and fruit and nut trees.

Active Ingredients:

Chlorpyrifos: [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl)
phosphorothioate] 12.9%
Inert Ingredients 87.1%
(contains xylene range aromatic solvents)
Contains 1 pound of chlorpyrifos per gallon

 $\hbox{^*Dursban} \ and \ the \ Dursban \ logo \ are \ registered \ Trademarks \ of \ Dow Elanco$

Keep Out Of Reach Of Children WARNING

Notice: Read and understand the entire label before using. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet. Agricultural Chemical: Do not ship or store with food, feeds, drugs or lothing.

E.P.A. Est. No. 829-FL-1 (3); 829-NC-1 (4); 829-NC-2 (5) Number following Est. No. corresponds to first digit in Lot No.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607

E.P.A. Reg. No. 829- Net Contents Liquid: 8 oz., Pt., Qt., Gl.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING: Harmful if Swallowed Or Absorded Through Skin * Avoid Breathing Vapors Or Spray Mist * Avoid Contact With Eyes, Skin, Or Clothing * Causes Substantial But Temporary Eye Injury * May Cause Skin Irritation

Wear eye protection. Handle concentrate in a ventilated area. Keep away from food, feedstuffs and water supplies. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

*tatement of Practical Treatment:

. 'Swallowed: Call a physician or poison control center immediately. Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Contains aromatic solvent. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

If On Skin; Immediately wash with plenty of soap and water. Get medical attention.

If In Eyes: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention immediately.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine, only by injection is the preferable antidote. Oximes, such as 2PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine.

ACCEPTED
with COMMENTS
In EPA Letter Deted

APR 1 2 1995

Under the Federal Insecticide, Fungicide, and Rostenticide Act as amended, for the pesticide registered under EPA Reg. No.

Environmental Hazards

This pesticide is toxic to birds, fish and aquatic invertebrates. Birds feeding in treated area may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Physical or Chemical Hazards

Combustible. Do Not Use or Store Near Heat or Open Flame

Directions For Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all directions for use before applying this product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in original container out of the reach of children and pets. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Partially filled bottle may be disposed of by securely wrapping original container in several layers of newspaper and discarding in trash.

Container Disposal: Do not reuse empty container. Rinse thoroughly before discarding in trash.

General Use Information

SA-50 Dursban 1-E Insecticide is an emulsifiable concentrate designed for use as a spray to control various pests around households and various pests injurious to trees, turf, ornamental plants and shrubs, and certain vegetables, fruits, and fruit and nut trees. The pests controlled are listed in the accompanying tables.

Handling Procedures for General Use:

* Do not allow spray to contact food, feedstuffs, or water supplies

- * Do not allow spray to contact food or food contacting surfaces. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated through application of this product.
- * Remove pets before spraying.
- * Keep out of fishpools or other bodies of water
- * Do not use in poultry houses.
- Do not use as a space spray.
- * Do not allow adults, children or pets on treated areas until spray has dried.

Mixing Instructions: When diluting SA-50 Dursban 1-E Insecticide, first, add approximately one half of the water to the spray tank; add the proper amount of SA-50 Dursban 1-E. Close the tank and shake for 5 to 10 seconds; then add the remaining water slowly.

Note: 1 fluid ounce = 2 tablespoonfuls = 6 teaspoonfuls = 29.6 milliliters

Pest Control on Outside Surfaces and Around Buildings

Apply SA-50 Dursban 1-E Insecticide by application as a residual spray to outside surfaces of buildings and surrounding areas, including porches, window frames, doorways, foundations, eaves, patios, garages, refuse dumps, garbage cans and garbage areas, and other areas where pests congregate or have been seen or where they can gain entrance. Repeat treatment as needed to maintain effectiveness.

Use a band treatment to help prevent infestation of buildings. Treat a band of soil 6 to 10 feet wide around and adjacent to buildings, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Apply as a coarse spray at the rate of about 10 yallous spray mixture per 1,000 square feet to thoroughly and uniformly we'the bond areas

Amount of SA-50 Dursban 1-E to Mix in Water to Make:							
Pest*	1 gal	3 gals	5 gals				
Ants	1/3 fl. oz.	1 fl. oz	1-2/3 fl. oz				
Beetles (1)							
Box Elder Bugs							
Carpenter ants (1)							
Centipedes							
Clovermites	•						
Cockroaches (Ameri	can, Smokey Brown)						
Crickets							
Earwigs							
Elm Leaf Beetles							
Fleas							
Millipedes							
Scorpions (2)							
Silverfish							

Specific Directions:

Sowbugs

Springtails

Spiders

Ticks

(1) For additional information, see section on Control of Wood Infesting yesets.

*Numbers in parenthesis refer to Specific Directions

,½) For scorpions remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat areas beneath and adjacent to infested areas.

On Outside Surfaces:

Pest*	1 gal	3 gais	5 gals
Ants	5-1/3 fl. oz.	1 pt.	2-2/3 pts.
Bees			
Beetles (1)			
Box Elder Bugs			
Carpenter ants (1)			
Carpenter bees (1)			
Centipedes			
Clovermites			
Cockroaches			
Crickets	•		
Earwigs im Leaf Beetles			
r leas			
Flies			
Hornets			
House Flies			
Millipedes			
Mosquitoes			
Scorpions (2)			
Silverfish			
Sowbugs			
Spiders			
Springtails			
Ticks			
Wasps			
Yellowjackets			
*Numbers in parenthes	is refer to Specific Dir	rections.	

Specific Directions:

(1) For additional information, see section on Control of Wood Infesting Insects.

(2) For scorpions remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat areas beneath and adjacent to infested areas.

Control of Ticks Outdoors:

Amount of SA-50 Dursban 1-E to Mix in Water to Make						
Pest*	1 gal	50 gals				
Ticks (1) Such As:	1 fl. oz.	3 pts				
American dog tick						
Brown dog tick						
Cattle fever tick						
Deertick						
Gulf coast tick						
Lone star Tick						
*Numbers in parenthesis re	fer to Specific Directi	ons.	•			

Specific Directions:

(1) For control of ticks infesting areas around houses and in yard areas. Tuck pant legs into socks to avoid tick bites. An insect repellent sprayed onto lower legs and socks should give additional protection from possible bites. Wearing light colored pants and socks will aid in spotting ticks that may attach during treatment.

Treat perimeter of house by applying under shrubbery, in and around ground cover surrounding house, and around and under patios. Treat edges or perimeter of yard area where grass and other ground cover plants and other areas that appear likely to serve as harborage sites for ticks that have removed themselves from their host. Spray surfaces to be treated until wet, but do not create runoff. Prior to and following treatment, weeds and high grasses should be kept trimmed to reduce tick harborage sites. Rodents can serve as hosts for ticks. Rock piles, wood piles, and other rodent habitats should be removed or reduced. Key months for deer tick control are April through November in most parts of the country. For specific timing of application in your geographic area, contact your local extension service.

NOTE: This application is intended as a premise spray only. Do not use as a direct spray on pets or people. Take care to avoid creating mist or drift which may find its way to nontarget areas or bodies of water. Pets and children should not be allowed in treated areas until spray deposits have dried.

Control of Wood Infesting Insects Outdoors

Use SA-50 Dursban 1-E Insecticide for the control of wood Infesting insects found around homes and other structures. For treatment of small areas, apply by brushing or spraying the diluted spray evenly on wood surfaces. For large or overhead areas, use a coarse, low-pressure spray, being careful to avoid dripping or runoff. Suitable protective clothing should also be worn in confined or overhead areas to help avoid exposure to eyes and skin. As a minimum, eye protection, protective head covering, chemically resistant gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended.

Do not permit people or pets to contact treated surfaces until spray has dried. Treated areas (especially those which are confined) should be ventilated during and immediately following application before the areas are reoccupied.

Amount of SA-50 Dursban 1-E to Mix in Water to Make:							
Pest*	1 gai	3 gals					
Beetles (1) Such as:	5-1/3fl. oz.	16 fl. oz.					
Anobiidae - Furniture be	etles						
- Deathwatch	beetles						
- False powder	post beetles						
Bostrichidae - Apple twic	borer						
Cerambycidae - Longhori	ned beetles						
Lyctidae -Powderpost b	eetles						
Carpenter ants and other wood							
Carpenterbees (3)		•					
Termites (4,5,6,7)							
*Numbers in parenthesis refer	to Specific Directions	1.0					

Specific Directions:

(1) For beetles, spray infested areas and areas where infestations are likely to occur, including, but not limited to, wood surfaces, voids and channels in damaged wood, in spaces between wooden members of a structure, and between wood and foundations. Applications may be made to inaccessible areas by drilling and by then injecting the solution.

4/10

- (2) For wood Infesting ants, apply the spray around doors and windows and other places where these ants enter the premises and where they crawl and hide. Also spray into cracks and crevices or through openings or small, newly drilled holes into wall voids or other areas where these ants or their nests are present. Do not spray water based sprays into electrical outlets or utilities
- (3) For carpenter bees, spray or inject insecticide into holes and tunnels already made by carpenter bees, or spray onto localized areas where carpenter bees are beginning to build tunnels in wood.
- (4) For termites, spray localized areas of structures, including voids and channels in damaged wood, in spaces between wooden members of a structure and between wood and foundations where infestation is likely to occur. Treatment of localized areas is intended to kill workers and winged reproductive forms of termites in the treated areas and to prevent infestation for a temporary period. This type of application is not intended to be a substitute for soil treatment or mechanical alteration to control subterranean termites.
- (5) For termites (outdoors): Remove all wood debris and wood forms. Determine the extent of termite infestation. For prevention and light infestation, treat soil adjacent to both sides of infested foundations of poured concrete, pipes, or piers by digging a trench 6 inches wide and 4 inches deep or down to the top of the footing (whichever is less). For brick and block foundations dig the trench about 12 inches deep. If footing is more than 12 inches deep, make holes with a crowbar, pipe or a rod about one foot apart that extend from the trench bottom to the top of the footing. Make holes closer in hardpacked clay soils. NEVER DIG BELOW THE TOP OF THE FOOTING. Avoid contamination of public and private water supplies by bllowing these precautions. Do not allow a hose or any type of faucet extension to reach into the termite chemical solution while filling or mixing this material with water. Use anti-backflow or anti-siphonage equipment on all filing equipment. These devices can be purchased at hardware or plumbing supply stores. Use of anti-backflow equipment will help insure that the user of this product will not contaminate domestic water supplies. Refer to FHA (Federal Housing Administration), state, and local specifications for safe distances of treatment areas from wells. Soil in the vicinity of wells, cisterns or ponds should not be treated. Do not treat structures that contain cisterns or wells. NOTE: When conditions will not permit trenching, surface application adjacent to interior foundation walls may be made but the treated strip should not exceed 18" in width. Apply solution with a sprinkling can. Mix 5 1/3 fl. oz. pergallon of water and treat 2 1/2 linear feet of trench or foundation (one quart of SA-50 Dursban 1-E will make 6 gallons of diluted solution and treat 15 linear feet). Mix solution into soil as it is replaced in the trench. Cover treated soil with a layer of untreated soil. Be sure to treat the interiors of accessible hollow block foundations at same rate as above. Be careful to have adequate ventilation when treating areas under structure. For severe infestations or treatment under slabs, in basements and buildings with insufficient crawl space, etc., contact a licensed pest control operator or termité control service.

Retreatment for subterranean termites should only be made when there is evidence of reinfestation subsequent to the initial treatment, or there has been a disruption off the chemical barrier in the soil due to construction, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas

Annual retreatment of the entire premises must be avoided.

(6) To prevent termites in fence posts, apply one gallon of diluted SA-50 Dursban 1-E per post hole. Pour one half of solution into hole and add the remaining 1/2 gallon diluted solution to the soil when filling the hole so that all the fill soil is treated to form a protective barrier.

NOTE: Do not treat structures that contain cisterns or wells. Do not treat soil that is water saturated or frozen. Consult state and local specifications for recommended distances of treatment from well.

(7) For killing wood destroying insects in wood piles and stored lumber, apply 5 1/3 fl. oz. pergallon of water. Use a sprinkling can or hose-end sprayer and deliver a coarse drenching spray. Do not use in structures occupied by animals, to be used for food purposes or which produce products for human consumption. DO NOT TREAT WOOD WHICH WILL BE USED FOR FIREPLACES OR INDOOR HEATING OR WHICH WILL BE USED FOR HEATING IN FOOD PREPARATION.

Turf and Other Outdoor Uses

Apply SA-50 Dursban 1-E Insecticide to control the pests listed in the following table by applying at the recommended dosages and in accordance with the directions given below. Dilute the dosage of SA-50 Dursban 1-E Insecticide given below in water (1 to 3 gallons of water per 1,000 sq. ft.) and apply as a coarse, low-pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment. Spray when pests first appear; retreat when needed.

Attention: Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fishpools and other bodies of water.

	Amount of SA-50	
Pest*	1,000 sq. ft.	5000 sq. ft.
Ants (including foraging fire ants) Armyworms (Such as: Beet, Fall, Yel Centipedes Chiggers(1)	3 fl. oz. lowstriped)	15 fl. oz.
Chinch bugs		
Clover mites Crickets		
Cutworms		
Deer Ticks(2)		
Earwigs		
Fiery skipper		
Fire ants (mounds)(3)		
Fleas (1)		
Grasshoppers		
Greenbugs		
June beetles		
Leafhoppers		
Lucerne moths		
Millipedes)^{;-1	
Mites (Such as: Clover, Formula gra Mosquitoes(4)	ss, winter grain)	
Sod webworms(lawn moths)(5)		
Sowbugs		
Springtails		
Ticks(1)		
European crane fly	4 fl. oz.	20 fl. oz.
Turfgrassweevils (Hyperodes)(6)	6 fl. oz.	2 pts.
White grubs (Such as: Black	6 to	2 pts. to
turfgrass, ataenius, European	12 fl. oz.	4 pts.
chafer, Southern masked	~ .	
chafer, and Japanese beetle larvae)(7)	
Bluegrass billbugs (8)	3 to	1 pt. to
	12 fl. oz.	1 qt.
*Numbers in parentheses refer to Sp	pecific Directions	
0		

Specific Directions

- (1) Use SA-50 Dursban 1-E Insecticide for area control of Fleas, Ticks and Chiggers infesting areas such as lawns, yards, around house and perimeter of yard, footpaths, and trails, picnic and camping sites, and other areas where these pests are present and create a nulsance or a possible public health problem. Treat perimeter of house by applying under shrubbery, in and around ground cover surrounding house, and around and under patios. Treat edges or perimeter of yard area where grass and other ground cover plants and other areas that appear likely to serve as harborage, sites for ticks that have removed themselves from their host. When treating other areas away from house, treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 1 to 3 gallons per 1,000 sq. ft. (5 to 15 gallons per 5000 sq. ft.). A maximum of 3 fl. oz. of SA-50 Dursban 1-E insecticide may be applied per 1,000 square felet. Apply SA-50 Dursban 1-E Insecticide in water using a hydraulic sprayer, knapsacksprayer, or other suitable hand or power operated spray equipment. Spray surfaces to be treated until wet, but do not create runoff. Do not allow use of treated areas by pets or people during application or until spray has dried.
- (2) For control of deer ticks infesting areas such as lawns, yards, around

1 2/3 fl. oz.

house and perimeter of yard, footpaths, and trails, picnic and camping sites, and other areas where these pests are present and create a nuisance or a possible public health problem, tuck pant legs into socks to avoid tick bites. An insect repellent sprayed onto lower legs and socks should give additional protection from possible bites. Wearing light colored pants and socks will aid in spotting ticks that may attach during treatment.

Treat perimeter of house by applying under shrubbery, in and around ground cover surrounding house, and around and under patios. Treat edges or perimeter of yard area where grass and other ground cover plants and other areas that appear likely to serve as harborage sites for ticks that have removed themselves from their host. Apply SA-50 Dursban 1-E Insecticide in water using a hydraulic sprayer, knapsack sprayer, or other suitable hand or power operated spray equipment. Spray surfaces to be treated until wet, but do not create excessive runoff. Use enough spray volume to obtain thorough coverage, usually 5 gallons per 1,000 sq. ft. (20 to 25 gallons per 5000 sq. ft.). A maximum of 3 fl. oz. of SA-50 Dursban 1-E Insecticide may be applied per 1,000 square feet.

Do not allow use of treated areas by pets or people during application or until spray has dried.

Prior to and following treatment, weeds and high grasses should be kept trimmed to reduce tick harborage sights. Rodents can serve as hosts for ticks. Rock piles, wood piles, and other rodent habitats should be removed or reduced. Key months for deer tick control are April through November in most parts of the country. For specific timing of application in your geographic area, contact your local extension service.

NOTE: This application is intended as a premise spray only. Do not use as a direct spray on pets or people. Take care to avoid creating mist or drift which hay find its way to nontarget areas or bodies of water. Pets and children should not be allowed in treated areas until spray deposits have dried.

- (3) For individual fire ant mounds, apply SA-50 Dursban 1-E Insecticide as a drench, diluted at the rate of 1 fl. oz. per 1 gallon of water. Sprinkle a total of 1 gallon of the diluted spray over the surface of each mound using a gentle spray (such as a sprinkler can). Thoroughly wet mound and surrounding areas to a 4 ft. diameter (12 sq. ft.). For best results, apply in cool weather, 65-80 degrees F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing control.
- (4) Mosquitoes coming to rest on areas treated for control of turfpests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.
- (5) For sod webworms, delay watering and mowing the treated area for 12 to 24 hours after treatment.
- (6) For turfgrass weevils, spray suspected problem areas in mid-April and again in mid-May or as recommended by your Local Agricultural Extension Service specialist.
- (7) For white grubs, spray when grubs are young and actively feeding near the soil surface, usually during late July and August or as recommended by rour local Agricultural Extension Service specialist. For best results: irrigate atreated area with 1/2 to 1 inch of water immediately after spraying towash the insecticide into the underlying soil where these pests congregate.
- (8) For bluegrass billbugs spray early in the season when adults first appear. Retreat as needed.

Ornamentals (Outdoor)

Use SA-50 Dursban 1-E Insecticide to treat flowers, shrubs, evergreens, vines, shade and flowering trees, and other ornamental plants found to be infested with pests listed in the following table. Dilute SA-50 Dursban 1-E Insecticide with water according to directions given in the table and apply using suitable hand or power operated spray equipment in a manner to provide complete and uniform coverage. For best results apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

Consult your Extension Service specialist for application timing.

Note: Environmental factors can have effects on plant damage when the plants have been treated with an insecticide. SA-50 Dursban 1-E Insecticide has been tested on numerous ornamental plants without causing significant damage. However, do not use on azaleas, camellias, poinsettias, rose bushes, or variegated by because of possible injury to these plants.

Amount of SA-50 Dursban 1-E to Mix in Water to Make: 1 gal 3 gals 5 gals

1 fl. oz.

Adelgids (Such as: Cooley and 1/3 fl. oz.

Eastern spruce galls, and Pine bark)

Ants (including foraging fire ants)

Aphids (Such as: Apple,

Chrysanthemum, Cottonwood,

Elmleaf, Peach, Rose, Spirea, Woolly)

Armyworms (Such as: Fall, Yellowstriped)

Bagworms(1)

Pest*

Boxelder bugs

Cankerworms

Catalpa sphinx

Chiggers

Citrus mealybugs

Elm spanworms

Fall webworms

Grasshoppers

Green fruitworms

Hornworms

Jackpine budworms

Juniper webworms

Katydids

Lace bugs

Leafhoppers

Leafrollers(2)

Maple leafcutters(3)

Mites (Such as: Clover, Red

Spider, Southern red)(4)

Oleander caterpillars

Orange tortrix

Periodical cicada

Plant bugs

Psyllids

Poplar tentmakers

Puss caterpillars

Rose chafers

Sawflies, exposed (Such as:

Pine, Pinoak, Redheaded)

Sowbugs

Spittlebugs

Spring elm caterpillars

Springtails

Spruce budworms

Tent caterpillars (Such as:

Eastern, Forest, Western)

Thornbug

Walnut caterpillars

Western spruce budworms

Whiteflies

Yellownecked caterpillars

*Number in parentheses refer to Specific Directions

Specific Directions:

- (1) For bagworms treat when insects are in the crawler stage.
- (2) For effective control of **leafrollers** spray should be applied before leaves are tightly rolled.
- (3) For effective control of maple leafcutter on maple trees apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup production.
- (4) For effective control of **spider mites** when large numbers of eggs are present, apply a second spray 3 to 5 days in the South or 7 to 10 days in the North after initial treatment to control newly hatched hymphs.



Pest* 1 ga	al	3 gals	5 gals
Armyworms (Beet) 2/3	fl. oz.	2 fl. oz.	3 1/3 fl. oz
Beetles (Fullerrose,	02.	L UL.	0 11011.01
Native elmbark)(1)			
Cutwoms			
Leafhoppers			
Mahogany webworms			
Mealybugs	•		
Mimosa webworms			
Moths (Such as: Browntail,			
Cypress tip, Douglas fir tussock,			
European pine shoot, Gypsy(2),			
Holly bud, Nantucket pine tip,			
Pandora, Pitch pine tip, Subtropic	cal		
pinetip, Tussock)			
Oakworms (Such as: California,			
Orangestriped, Redhumped)			
Redhumped caterpillars			
Thrips (exposed)			
Weevils (Such as: Blackvine(3)			
Yellow Poplar, Pine reproduction	,		
Beetles (Such as:	2/3 to	2 to	3 1/3 to
Cottonwood leaf(4), Elm leaf,	1 fl. oz.	4 fl. oz.	5 fl. oz.
Flea, Willow leaf)	711. 02.	4 11. 02.	J 11, UZ.
Tiob. Timovically			
Borers(5): Clearwing moths	1 1/3 fl. oz.	4 fl. oz.	6 2/3 fl. o
(Such as: Ash, Dogwood,			
Lesserpeachtree, Lilac,			
Oak, Rhododendron), Metallic			
wood (Such as: Bronze birch,			
Flatheaded appletree, Twolined			
Chestnut), Longhorned beetles			
(Such as: Locust, Red oak)			
Cranberry girdler larvae(6)			
Leafminers			
Needleminers (Such as:			
Jeffrey pine, Lodgepole pine, Spi	ruce)		
Scale crawlers (Such as:			
Cottonycushion, Cottony-maple,	_		
Euonymus, Fletcher, Florida wax	ζ,		
Golden oak, Hemispherical,			
Lecanium, Magnolia, Oak kermes Oystershell, Pine needle,	٠,		
San Jose, Tea, White birch)			
roam sose, rea, writte biterij			
Borers (Such as: Cottonwood,	4 fl. oz.	12 fl. oz.	20 fl. oz.
Peachtree)(7)			
Beetles(8) (Such as: cottonwood	5 1/3 fl. oz.	1 pt.	1 2/3 pts
I eaf, elm leaf, Flea, Fuller rose,			
Native elmbark(9), willowleaf)			
Bootles (Such as: Ambronia	10 2/3 fl. o	. 1.0+	1 2/3 ata
Beetles (Such as: Ambrosia, Anobiidae, Black turpentine,	10 2/3 11. 02	z. 1 qt.	1 2/3 qts
European elmbark, Japanese,			
June, Southern pine, Spruce)(10	11		
Carpenter ants	,,		
*Numbers in parentheses refer to S	Specific Direct	lions	
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- (1) To reduce twig and branch feeding by bark beetles applications should be made in the spring or early summer.
- (2) To kill migrating and invading gypsy moth larvae treat trunks and
- (3) Blackvine weevils are night feeders. Late afternoon spraying will give
- control in some areas. (4) For cottonwood leaf beetles use SA-50 Dursban 1-E Insecticide in
- water to control larvae and adults infesting cottonwoods. (5) For borers, apply SA-50 Dursban 1-E Insecticide to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Extension Service specialist for proper time to treat. Apply uniformly as a coarse low-pressure spray.

- (6) For cranberry girdler larvae direct spray at the base of plants. Irrigate immediately after application for soil penetration of 12 inches. Treat after egg laying during the summer.
- (7) For peachtree borers apply SA-50 Dursban 1-E Insecticide in water to flowering trees and shrubs of the genus Prunus as a trunk spray before newly hatched larvae enter the trees. Apply as a coarse, low-pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs.
- (8) For preventive treatment apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment apply the spray to the main trunk of infested trees or logs when damage occurs but before adult beetles begin to emerge.
- (9) To prevent native elm bark beetles from overwintering in uninfested trees, apply SA-50 Dursban 1-E Insecticide in water to the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not spray to runoff. Apply the spray right to the base of the root flare. Application can be made from spring through
- (10) For preventive treatment apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment apply the spray to the main trunk of infested trees when damage occurs but before adult beetles begin to emerge.

Control of Insects Infesting Fruit And Nut Trees

Use and Dosage Recommendations

Use SA-50 Dursban 1-E Insecticide at the dosages indicated by application as a foliar spray to control pests listed in the following tables. Treat the entire tree by application up to the point of runoff. Where a rate range is listed in the use directions, use the higher rate for more severe infestations. Treat when pests appear or consult your local Extension Service Specialist for best times to treat for the pests described.

Mow or beat down or chard blooming weed cover crops before applying spray to tree fruit crops to reduce hazard to bees, or treat late in the evening so that spray has a chance to dry before honeybees return to forage the next morning.

	Amount of SA-50 Dursban 1-E in Water to Make				
Crop	Insects Controlled*	1 gal	3 gals	5 gals	
Apples	Apple aphid (1)	2 fl. oz.	6 fl. oz.	10 fl. oz.	
	Apple Maggot				
	Codling moth				
	European apple sawfly				
	Eyespotted bud moth				
	European corn borer				
	Fruit tree leafroller				
	Green fruitworm				
	Lesserappleworm				
	Obliquebanded leafroller				
	Orange tortrix				
	Pandemis leafroller				
	Oriental fruit moth				
	Periodical cicada				
	Plum curculio				
	Redbanded leafroller				
	Rosy apple aphid				
	San Jose scale				
	Tarnished plant bug				
	Tufted apple budmoth				
	Variegated leafroller				
	Woolly apple aphid				
	Dogwood borer (trunk spr	ay)			

*Numbers in parentheses refer to Specific Directions.

(1) To control apple aphid infesting apples, spray every 13 to 14 days on a preventative schedule.

Restrictions: Make no more than 8 applications per season; Do not apoly last treatment within 28 days before harvest or apply last two treatments closer than 21 days apart.

	Amount of SA	4-50 Dur	sban 1-E in W	ater to Make
Crop	Insects Controlled	1 9	gal 3 gals	5 gals
Almonds	Navel Orangeworm Peach twig borer San Jose scale	2 2/3 fl. oz.	8 fl. oz.	13 1/3 fl. oz.
Walnuts	Codling moth Walnut husk fly Walnut scale	2 2/3 fl. oz.	8 fl. oz.	13 1/3 fl. oz.
Filberts	Eyespotted bud moth Filbert aphid Filbert Leafroller Filbertworm Obliquebanded leafroller Omniverous leaf tier Winter moth	2 to 3 fl. oz.	6 to 8 ff. oz.	10 to 15 fl. oz.

SA-50 Dursban 1-E Insecticide will perform best in an almond or walnut pest control program that includes winter sanitation (removal of mummy nuts) and regular monitoring of target pests.

Restrictions: Make only one dormant/delayed dormant spray application and no more than three foliar spray applications on almonds per season, one riormant/delayed dormant spray application and no more than two foliar spray pplication on walnuts per season, and no more than three foliar spray applications on filberts per season. Do not apply within 14 days of harvest.

	Amount of SA-50) Dursban	1-E in Wat	ter to Make:
Crop	Insects Controlled*	1 gal	3 gals	5 gals
Pecans	Black pecan aphid	1 1/3	4	6 2/3
	Hickory shuckworm	fl. oz.	fl. oz.	fl. oz.
	Pecan leaf scorch mite (1)			
	(suppression)			
	Pecan nut casebearer			
	Phylloxera spp. (2)			
	Fallwebworm			
	Spittlebug			
	Fire ants and other ant			
	species (orchard floor) (3)			

^{*}Numbers in parentheses refer to Specific Directions.

(1) To suppress pecan leaf scorch mite on pecans, use in a preventative program.

2) For best pecan Phylloxera control, use two applications 7 to 10 days part starting at bud swell and ending by early leaf expansion.

(3) For ant control on pecans, do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor.

Restrictions: Make no more than 5 applications per season. Do not apply within 28 days of harvest.

Amount of SA	\-50 Dursban '	1-E in Wat	er to Make
Crop Insects Controlled	1 gal	3 gals	5 gals
Sour Cherries	1 1/3 to	4 to	6 2/3 to
Borers: (American plum,	2 fl. oz.	6 fl. oz.	10 fl. oz.
Lesser peachtree, Pacific fla	theaded,		
Peach twig, Peachtree, Shot	hole)		
Climbing cutworm			
Green fruitworm			
Leafrollers:			
(Fruittree, Obliquebanded	t		
Pandemis, Redbanded)			
Lesserappleworm			
Tarnished plant bug			
Eyespotted bud Moth			
Mineola Moth			
Scale: (European fruit,			
lecanium, San Jose)			
Stink bug			

Black cherry aphid Cherry fruit fly

6 fl. oz. 10 fl. oz

Plum curculio Rose chafer

Restrictions: Make no more than 8 applications per season. Do not apply within 14 days of harvest.

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Amount of SA-50 Dursban 1-E in Water to Make:						
Crop	Insects Controlled	1 gal	3 gals	5 gals		
Sweet	Cherries	2 to 4	6 to 12	10 to 20		
Le	esser peachtree borer,	fl. oz.	fl. oz.	fl. oz.		
G	reat peachtree borer,					
Αı	nerican plum borer					

Specific Directions

Apply as a coarse, low-pressure spray to give uniform coverage of tree trunks and lower limbs. Avoid contact with foliage (leaves) in sweet cherries as premature leaf drop may result.

Make a second application two weeks after the first one and a third application after harvest. Consult your Extension Service Specialist for proper time to treat in your area.

The third application can be substituted for a dormant or delayed dormant spray for control of San Jose scale, peach twig borer and climbing cutworms. For control of these pests mix 1 2/3 to 3 1/3 fluid ounces of SA-50 Dursban 1-E Insecticide with 1/2 to 1 pint of a petroleum oil recommended for dormant use in 5 gallons of water and spray the entire tree up to the point of runoff using a coarse spray. Use oil as recommended by your local Extension Service.

Restrictions: Make only 3 applications per year. Do not apply within 6 days of harvest.

•	Amount of SA-5	0 Dursban 1	1-E in Wate	r to Make:
Crop	Insects Controlled	1 gal	3 gals	5 gals
Nectarines Peaches	Peachtree borers	4 fl. oz.	12 fl. oz.	20 fl. oz

Specific Directions

Use SA-50 Dursban 1-E Insecticide for the control of peach tree borers by application as a trunk spray before newly hatched borers enter the trees. Mix the proper amount of SA-50 Dursban 1-E Insecticide with appropriate water and apply as a coarse, low-pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark areas from ground level to scaffold limbs. Do not allow spray to contact fruit. Consult your Extension Service Specialist for proper time to treat in your area.

Restrictions: Make only one application per season. Do not apply within 14 days before harvest.

Dormant Spray (Tree Pests)

Specific Directions

Use SA-50 Dursban 1-E Insecticide as a dormant or delayed dormant spray at the rates indicated to control the listed insects. Tank mix with 2 1/2 to 5 fl. oz. of petroleum spray oil recommended for dormant use in 1 gallon of water (12 1/2 to 25 fl. oz. of dormant oil per 5 gallons of water). Spray the entire tree up to the point of runoff. Use the higher dosage of SA-50 Dursban 1-E Insecticide for severe infestations. Use oil as recommended by your Extension Service specialist.

	Amount of SA-50 Dursban 1 E in Water to Make:				
Crop	Insects Controlled	1 gal	3 gals	5 gals	
Apples	Rosy apple aphid, San Jose scale, Lygus, Pandemis leafroller, Climbing cutworms	1/3 to 2/3 fl. oz.	1 to 2 ft. oz.	1 2/5 to 3 1/3 fl. oz	
Pears	San Jose scale, Climbing cutworms, Pear psylla adults				

Plums. Prunes San Jose scale,

Mealy plum aphid,

1/3 to 1 to 1 2/3 to 2/3 fl. oz. 2 fl. oz. 3 1/3 fl. oz.

Climbing cutworms, Peach twig borer

Almonds, San Jose scale, Peaches, Peachtwig borer, Climbing cutworms

Precautions: Because cold or dry conditions may cause sprays containing SA-50 Dursban 1-E Insecticide and dormant oil to penetrate the bark of trees, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated. The penetration of SA-50 Dursban 1-E Insecticide and dormant oils into the bark can result in bud damage or

Restrictions: Make only one application during the dormant season.

Control of Insects Infesting Citrus Fruit Trees

Treat when insects become a problem or in accordance with the local spray schedule recommended by your Extension Service Specialist, Donot apply when temperature exceeds 95°F. SA-50 Dursban 1-E Insecticide is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively visiting the area. Apply late in evening or early morning (when Bes are not actively foraging) to allow insecticide to dry before honey bees are expected to visit.

	Amount of SA-50 Dursban 1-E in Water to Make:				
Crop	Insects Controlled	1 gal	3 gals	5 gals	
Grapefruit	Aphids, Katydids,	1/3 to	1 to	1 2/3 to	
Lemons	Lepidopterous larvae	1/2	1 1/2	2 1/2	
Oranges	Cutworms	fl. oz.	fl. oz.	fl. oz.	
and Other	Fruit tree leafroller				
Citrus .	Orange tortrix				
Fruits	Western tussock moth				
	Citrus thrips, Mealy bugs				
	Scale insects:(Black scale,				
	Brown soft scale,				
	California red scale,				
	Snow scale, Chaff scale)				

Precautions: Do not apply SA-50 Dursban 1-E Insecticide in combination with any other product.

estrictions: Do not apply more than 2 applications per fruit year or more than 6 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. per fruit year. Do not make second application within 30 days of first application. Do not treat within 21 days before harvest.

Control of Insects Infesting Fruits and Vegetables

	Amount of SA-50 Dursban 1-E in Water to Mak			
Crop	Insects Controlled	1 gal	3 gals	5 gals
Grapes	Grape root borer	2 2/3	8 fl. oz.	13 1/3
•		fl. oz.		fl. oz

Specific Directions

Apply SA-50 Dursban 1-E Insecticide as a soil treatment for control of grape root borer by application just before the pest emerges from the soil. Contact your Extension Service Specialist to determine proper timing of pest emergence in your area. Mix the appropriate amount of SA-50 Dursban 1-E Insecticide with appropriate water as given in table above. Apply 2 quarts of the diluted spray mixture to the soil surface on a 15 square foot area around the base of each vine. Do not allow spray to contact fruit or foliage.

Restrictions: Do not make more than one application per season or apply within 35 days before harvest. Based upon available residue data, the use of SA-50 Dursban 1-E Insecticide grapes is restricted to states east of the Rocky Mountains.

	Amount of SA-50 Dursban 1-E in Water to Make:			
Crop	Insects Controlled	1 gal	3 gals	5 gals
Strawberries	Strawberry bud weevil	1 fl. oz.	3 fl. oz.	5 fl. oz.

Specific Directions

Use SA-50 Dursban 1-E Insecticide by application as a broadcast foliar spray to control strawberry bud weevil at the rate of 3 fl. oz. of SA-50 Dursban 1-E per 1,000 sq. ft. Apply in a minimum of 3 gallons of spray per 1,000 sq. ft. when buds first appear and 10 to 14 days later. Do not apply after berries start to form or when berries are present. SA-50 Dursban 1-E Insecticide should not be mixed with any other pesticides, surfactants, or fertilizer formulations. Phytotoxicity may occur when SA-50 Dursban 1-E Insecticide is applied to strawberries experiencing high temperature and drought stress.

Restrictions: For pre-bloom use only. Do not make more than two applications per season or apply within 21 days before harvest.

	Amount of SA-50 Dursban 1-E in Water to Make:				
Crop	Insects Controlled	1 gal	3 gals	5 gals	
Mint	Cutworms	1 1/2 to	3 to 6	7 1/2 to	
		3 fl. oz.	fl. oz.	15 fl. oz.	
	Mintrootborer	2 fl. oz.	6 fl. oz.	10 fl. oz.	

Specific Directions

Use SA-50 Dursban 1-E Insecticide by application as a broadcast, foliar spray to control cutworms at the rate of 3 to 6 ft. oz. per 1,000 sq. ft. and mint root borer at the rate of 6 fl. oz. per 1,000 sq. ft. Mix the specified dosage in water to give no less than 3 gallons of spray per 1,000 sq. ft. For cutworm control, treat during May and June when damaging insect populations are developing or present. For mint root borer control, apply post-harvest when insect populations are developing or present. When larvae are less than 3/4 inches in length, use the 3 fl. oz. rate. When larvae are 3/4 inch or more in length, use the higher rate. Contact your Extension Service Specialist for proper timing in your area. For best results against both insect pests, follow treatment with approximately 1 inch of sprinkler watering immediately after application to incorporate the insecticide into the soil.

Restrictions: Make only one application during the growing season. Do not apply within 90 days before harvest. Make only one post-harvest application perseason.

VEGETABLES:

Onions (dry bulb):

Specific Directions

Use SA-50 Dursban 1-E Insecticide to control onion maggot by application as an in-furrow drench. Mix 1/2 fl. oz. SA-50 Dursban 1-E Insecticide in 1 gallon of water and apply to 100 linear feet of row. Incorporate to a depth of 1 to 2

Restrictions: Do not make more than one application per year.

Use SA-50 Dursban 1-E Insecticide to control root maggets on the following crops at the dosages indicated;

To avoid damage to leaves in vegetable crops, do not mix with other pesticide products or treat plants that are under extreme heat and drought stress.

Cauliflower, Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Collards, Kale, Kohlrabi, Turnips......1/2 to 1 fl. oz. per 100 linear feet of

For direct seeded crops, mix the designated amount of CA-50 Dursban 1-E Insecticide in 1 gallon of water and apply as a 4-inch wide band over the row at planting time. Incorporate into the soil using a hoe or other suitable equipment.

For transplanted crops, use the same mix but direct the spray to the base of the plants immediately after setting. Do not apply as a foliage application.

Restrictions: Do not apply more than 6 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. to cauliflower. Do not apply more than 7 1/2 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. to broccoli, Brussels sprouts, cabbage, Chinese cabbage, collards, kale, kohlrabi, and turnip plants. Do not make more than one application per season or apply within 30 days before harvest.

Radishes 1/2 fi. oz. per 100 linear feet of row.

Mix The SA-50 Dursban 1-E Insecticide in 1 gallon of water. Apply the specified dosage as a waterbased drench in the seed furrows with the seed at planting time.

Restrictions: Do not apply more than 8 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. or make more than one application per season.

Mix The SA-50 Dursban 1-E Insecticide in 1 gallon of water. Apply the pecified dosage in a water-based spray as a 4-inch wide band over the row at planting time. Incorporate into the soil using a hoe or other suitable implement.

Restrictions: Do not apply more than 5.5 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. or make more than one application per season. Do not use rutabaga tops for food or feed purposes.

Asparagus: Use SA-50 Dursban 1-E Insecticide to control cutworms, asparagus aphids, and asparagus beetles. Mix 1 fl. oz. of SA-50 Dursban 1-E Insecticide in 1 gallon of water and apply as a broadcast, foliar spray.

For cutworms, it is preferable to apply SA-50 Dursban 1-E Insecticide when the soil is moist and worms are active on or near the soil surface. Applications may be made during the fern stage for control of asparagus beetles and asparagus aphids.

Restrictions: Do not apply more than 5.5 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. feet. Do not make more than one pre-harvest application per season or apply within one day of harvest. Do not make more an two post-harvest applications during the fern stage. Based on available residue data, the use of SA-50 Dursban 1-E Insecticide on asparagus is limited to the Midwest and Pacific Northwest.

Sweet Corn, Field Corn, Popcorn:

For use to control cutworms, armyworms, corn earworm, corn rootworm adults, chinch bugs, grasshoppers, wireworms, flea beetle larvae and adults, aphids, billbugs, grubs, western bean cutworm, corn borers, symphylans, common stalk borer, and lesser cornstalk borer.

Preplant Incorporation Treatment: Use SA-50 Dursban 1-E Insecticide at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

Use recommended rate in not less than 3 gallons of water per 1,000 sq. ft. and apply as a broadcast spray to the soil surface using suitable equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a garden tiller or hoe.

Cultivation Time Treatment: Use SA-50 Dursban 1-E Insecticide at the rate of 3 fl. oz. per 1,000 sq. ft. to control corn rootworm larvae. Apply SA-

50 Dursban 1-E Insecticide in sufficient water and spray on both sides of the row at the base of the plants. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of SA-50 Dursban 1-E Insecticide may be made in addition to an at-planting application of a granular formulation of SA-50 Dursban Brand Insecticide.

Post-emergence Treatment: Use SA-50 Dursban 1-E Insecticide at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

Grasshoppers 3/4 to 1 1/2 fl. oz. per 1,000 sq. ft.

European and southwestern corn borer, corn earworm . . 2 to 3 fl. oz. per 1,000 sq. ft.

Cutworms, billbugs, lesser cornstalk borer, flea beetle adults, common stalk borer....3 to 4 1/2 fl. oz. per 1,000 sq. ft.

Note: The recommended dosage will control silk clipping by corn rootworm adults.

Treat when pests become a problem. For best billbug, chinch bug, and flea beetle control, apply in 12 to 15 gallons of water per 1,000 sq. ft. using suitable spray equipment. On corn less than 6 inches tall, apply the insecticide spray in a 9 to 12 inch wide band over the row. On corn greater than 6 inches tall, apply the insecticide spray directed to the base of the plant. When chinch bugs continue to immigrate to corn over a prolonged period, a second application of SA-50 Dursban 1-E Insecticide may be needed.

For cutworm, webworm, western bean cutworm, armyworm, aphid, European and southwestern corn borer, grasshopper, lesser cornstalk borer, corn rootworm adult, corn earworm, and common stalk borer control, apply as a broadcast spray. For cutworms, it is preferable to apply SA-50 Dursban 1-E Insecticide when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy or crusty at time of treatment, worms may be protected from the spray and effectiveness will be reduced. If such conditions exist, shallow incorporation using a hoe or other suitable equipment immediately before or soon after treatment may improve control. Consult your Extension Service specialist for additional information concerning control practices in your area. For webworm control, shallow incorporation using a hoe or other suitable equipment immediately after treatment is necessary. For first generation European corn borer control, treat when damage becomes evident. Applications should be directed into the corn whorls. For second generation European corn borer control, treat when pests become a problem. A second application may be applied 10 to 14 days later, if needed due to reinfestation. Do not use SA-50 Dursban 1-

Restrictions: Do not apply within 35 days before harvest. Do not apply more than a total of 22 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. per season.

E Insecticide in combination with any herbicide.

Peanuts:

Use SA-50 Dursban 1-E Insecticide for control of the following pests at the dosages indicated. Mix the required dosage in enough water to ensure thorough coverage. To minimize chemical injury, do not apply SA-50 Dursban 1-E Insecticide to drought stressed peanuts within adays following irrigation or rain.

Restrictions: Do not make more than one application genseason as a

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directed spray. Directed and foliar sprays should not exceed 6 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 square feet. Do not harvest within 21 days after treatment.

Sweet Potatoes:

Use SA-50 Dursban 1-E Insecticide to control Conoderus wireworms, Systema flea beetles and the sweet potato flea beetle by preplant application at the rate of 6 fl. oz. per 1,000 sq. ft. as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage of the treated area and apply as a coarse spray. After application, incorporate the insecticide into the soil to a depth of 4 to 6 inches using a hoe, or other suitable equipment. Plant the crop in the usual manner as soon as possible after treatment.

Restrictions: Do not make more than one application per season. Do not harvest within 125 days of treatment.

Sunflowers:

For use to control cutworms, sunflower beetle larvae and adults, stem weevil, sunflower moth, banded sunflower moth, woollybears, seed weevil, and grasshoppers.

Preplant Incorporation Treatment: Use SA-50 Dursban 1-E Insecticide at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

Cutworms 3 to 6 fl. oz. per 1,000 sq. ft.

Use recommended rate in not less than 3 gallons of water per 1,000 sq. ft. and apply as a broadcast spray to the soil surface. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil.

Postemergence Treatment: Use SA-50 Dursban 1-E Insecticide for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants:

Cutworms 3 to 4 1/2 fl. oz. per 1,000 sq. ft.

Grasshoppers 1 1/2 fl. oz. per 1,000 sq. ft.

Apply as a broadcast spray when pests become a problem. For cutworm control, a second treatment may be made 7 to 10 days later, if needed. For item weevil control, optimal treatment time is within 5 to 7 days after adult weevils begin to appear. For sunflower moth control, make first application during early 1 to 5 percent bloom stage. A second treatment may be made 7 days later, if needed. Additional treatments should be made at successive 7 to 10 day intervals if field counts indicate need to re-treat.

Restrictions: Do not apply more than 13 1/2 fl. oz. of SA-50 Dursban 1-E Insecticide per 1,000 sq. ft. per season. Do not apply within 42 days before harvest.

Warranty Disclaimer: Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Manufacturer Makes No Other Express or Implied Warrant of Merchantability or Fitness for a Particular Purpose or Any Other Express or Implied Warranty.

Inherent Risks of Use: It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Manufacturer or the seller. All such risks shall be assumed by Buyer.

Limitation of Remedies: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Manufacturer's election, one of the following:

- (1) Refund of purchase price by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing. In no case shall Manufacturer be liable for consequential or incidental damages or losses.

The terms of this Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.