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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

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Robert F. Bischoff DOWELANCO Quad IV 9002 Purdue Road Indianapolis, IN 46268

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

SUBJECT:

Label Amendment Submission of 08/03/93 in Response to PR Notice 93-7

EPA Reg. No. 62719-72

DURSBAN 50W IN WATER SOLUBLE PACKETS

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully REMOVES THE PRODUCT FROM THE SCOPE of PR Notice 93-7 once the comments on the attached sheet are addressed. Other than the alterations listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.



WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

James Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Enclosures

3922

(Epa copy dated 4/30/93; datapack, base label, Dursban 50W):

(logo) DowElance

Dursban* 50W in Water Soluble Packets

To be applied only by or under the supervision of pest control operators or other trained personnel responsible for insect control programs

Active Ingredient:

Keep Out of Reach of Children WARNING

Refer to inside of tabel booklet for additional precautionary information and Directions for Use including STORAGE AND DISPOSAL.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label bookiet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-72
01638
*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268, U.S.A.

EPA Est. 464-MI-1 900-001634

Specialty Insecticide

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB | 6 1994

Under the Federal Insecticide, Pendicide, and Redenticide Act as amended, for the posticide registered under EPA Reg. No.

Revisions:

1) Product label amended to remove it from the scope of the Worker Protection Standard.

4) 22

(datapack, cover, Dursban 50W):

(logo) DowElasco

Dursban* 50W in Water Soluble Packets

To be applied only by or under the supervision of pest control operators and other trained personnel responsible for insect control programs

Active Ingredient:

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Specialty Insecticide

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Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet. In case of emergency endangering health or the environment involving this product, call collect 517-636-4400. Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-72 01638 *Trademark of DowElanco DowElanco • Indianapolis, IN 46268, U.S.A. EPA Est. 464-MI-1 900-001/34

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Hazards to Humans and Domestic Animals

WARNING

AVISO:

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

May Be Fatai If Swallowed • Harmful If Inhaled Or Absorbed Through Skin • Causes Eye Irritation

Do not get in eyes, on skin or clothing. Avoid breathing dust and spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs, and water supplies.

First Aid

If swallowed: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. If on skin: Wash with plenty of soap and water. Get medical attention.

If in eyes: Flush with plenty of water for 5 minutes. Get medical attention if irritation persists.

If inhaled: Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention

immediately.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. 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.

Directions for Use

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

Do not apply this product through any type of irrigation system.

Do not formulate this product into other end-use products.

STORAGE AND DISPOSAL

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

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 122°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. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: When all packets are used, dispose of empty package in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

This canister contains eight 4 oz water-soluble packets. Do not allow packets to become wet prior to adding to the spray tank. Wear gloves when handling water-soluble packets. Do not handle with wet gloves. Do not excessively handle water-soluble packets since this may cause breakage. Reseal outer package to protect remaining packets. Packets may become brittle when stored below 32F. Handle carefully to avoid breakage.

Dursban 50W inserticide is a formulation designed for use as a spray to control various pests injurious to trees, turf and ornamental plants. The pests controlled are listed in the accompanying tables. Dursban 50W is compatible with inserticides, miticides and fungicides commonly recommended except for alkaline materials such as Bordeaux mixture and lime. A small amount of spray mixture should be prepared to check for compatibility before a large volume of spray is mixed. Dursban 50W mixes readily with water to form a suspension. Dursban 50W contains a wetting agent. Do not use additional wetting agents, spreaders or stickers.

Chemigation: Do not apply this product through any type of irrigation system.

Applicator Safe Handling Procedures

When exposure to spray mist is likely to occur, wear protective equipment and clothing (eye protections, long-sleeved coveralls and waterproof gloves) to prevent exposure of eyes and skin. To prevent breathing of spray mist during application in confined areas, wear a respirator and cartridge(s) approved by NiOSH/MSHA for pesticides.

Attention: Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fishpools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed acreenings to livestock nor use hay for livestock bedding. Do not use in poultry houses.

Mixing Directions.

For paddle, sparger and bypass agitation systems.

Fill the spray tank 1/3 full or water.

Note: For paddle agitation systems, paddles should be covered with water.

Activate agitation system.

- Add required number of water-soluble packets to obtain desired dilution.
- Complete tank filling while the packet dissolves and Dursban 50W disperses.
- Before beginning to spray, make sure Dursban 50W has dispersed and water-soluble packet has dissolved.

Note: Depending on the water temperature and the degree of agitation, the prockets and Dursban 50W should be completely dispersed within approximately 5 minutes from the time they were added to the water.

Approved Uses

(Hyperodes)

7925

Use Dursban 50W to control pests infesting lawns, golf courses, parks, perennial turf grasses grown for seed or sod, etc., listed in the following table by application at the recommended dosages. Dilute Dursban 50W in enough water to obtain complete and uniform coverage of pest-infested areas and apply 40 to 200 gallons of water per acre in a manner to obtain complete and uniform coverage of pest-infested areas. Use 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; re-treat when needed, but not more often than once every 7 days.

(sixteen 4 oz packets)

Pest†	Amount of Dursban 50W per Acre	
ants (including foraging	2 lb	1. 1
fire ants	(eight 4 oz packets)	con
armyworms		infe
(beet)		road
(fall)		pics
(yellowstriped)		othe
centipedes		pes
chiggers 1		nui
chinch bugs		pro
clover mites		of t
cutworms		unti
crickets		Dш
carwigs		1/2
fiery skipper		270
fleas		mis
gnats	•	oth
grasshoppers	•	ope
green bugs		URC
June beetles		gro
leashoppers		tho
Lucerne moths		100
millipedes		100
mites		2.
(clover)		د. عو
(Bermuda grass stunt)		wi
(winter grain)		tim
mosquitoes ²		ध्य
pill bugs		WC.
sod webworm ³		WC
(lawn moths)		3.
sowbugs		J.
springtails		me
ticks I		ho
	3 lb	
European crane fly	(twelve 4 oz packets)	
1	4 lb	1.
turfgrass weevill	(cirtaen A on sackets)	ni Mi

Specific Directions

- Use Dursban 50W for area urol of ticks and chiggers esting non-cropland areas such as dsides, footpaths, and trails, nic and cauthing sites, parks and er recreational areas where these its are present and create a isance or a possible public health blem. Do not allow public use treated areas during application or til spray has dried. Apply ersban 50W in water at the rate of lb/acre (equivalent to 1/2 oz per 00 sq ft) using a hydranlic sprayer. st applicator, knapeack sprayer, or ner suitable hand- or powererated spray equipment. Treat low derbrush, grassy areas, weeds, ound surfaces and debris using ough spray volume to obtain prough coverage, usually 40 to O gallons per acre.
- Mosquitoes coming to rest on areas treated for control of turf pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.
- 3. For best results in controlling sod webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment.
- 1. Spray suspected problem areas in mid-April and again in mid-May or as recommended by your Local Agricultural Extension Service Specialist.

" "

white grubs 1
(black turfgrass attenius)
(European chafer)
(southern masked chafer)
(Japanese beetle larvae)

4 to 8 lb (sixteen to thirty-two 4 oz packets)

1. 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 your Local Agricultural Extension Service Specialist. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.

bluegrass billbugs !

2 to 8 lb (eight to thirty-two 4 oz packets)

1. For bluegrass billbugs, spray early in the season when adults first appear. Re-treat as needed.

mole crickets

4 to 6 lb (sixteen to twenty-four 4 oz packets)

1. Mole Crickets: Apply
Dursban 50W in a minimum spray
volume of 50 gallons of water per
acre using broadcast or suitable hand
held application equipment. Apply
when early stage nymphs
are active. Efficacy may be enhanced
by spraying late in the afternoon or
early evening and irrigating the turf
prior to treatment to move mole
crickets close to the soil surface.

1. Imported fire ants: Apply Durshan 50W as a spray to the area of sod to be cut. Immediately after applying the spray soak in with at least 1/2 acre-inch of water or a sufficient volume to thoroughly soak below the cut line. Do not apply a volume or rate of water to cause ranoff. Sod can be cut when vegetation has dried and when soil is moist but not wet.

Precaution: Personnel handling treated sod should wear elbow-length charactally resistant gloves and apron. Protective clothing and boots should be worn to prevent repeated skin exposure to treated sod.

Certification Period: 42 days from day of application.

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chiggers l (turkey pens)

8 lb (thirty-two 4 oz packets)

1. For control of chiggers infesting outdoor turkey pens, apply Dursban 50W as a spray to the soil using 100 to 150 gallons of water per acre.

To prevent turkeys from becoming infested with chiggers, spray the soil in pens just before turkeys are transferred to them. For turkeys already infested with chiggers, spray the soil in pens thoroughly. Allow at least three weeks for chigger lesions on the turkeys to heal before turkeys are slaughtered. For optimum results, spray a 10 to 15 ft protective area around the periphery of the treated pens.

Treatment is limited to 2 applications to the soil in turkey pens at intervals of not less than 4 weeks. Do not treat soil in turkey pens later than 7 days before turkeys are to be slaughtered. Avoid getting the spray on feed or in waterers. Open feed should be covered during spraying operations, and water troughs should be flushed out immediately after the spraying operations. Do not spray Durshan 50W directly on the turkeys.

Pest Control on Outside Surfaces, Around and Under Structures or in Crawl Spaces
Apply Dursban 50W by application as a residual spray to outside surfaces, around and under structures or buildings
including porches, window frames, eaves, patios, crawl space areas, garages, refuse dumps and other areas where
pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness. Avoid application to
surfaces where visible residues are objectionable.

[†]Superscripts refer to "Specific Directions".

ants

bees

boxelder bugs

carpenter ants

clover mites

cockroaches

eim leaf beetles (adults)

cnckets

carwigs

firebrats

fleas

flies

homets

millipedes mosquitoes

pillbugs

scorpions²

silverfish

sowbugs.

springtails symphylans

yellowjackets

spiders

ticks

wasps

Pest †

Amount of Dursban 50W in Water to Make 50 Gallons of Diluted Spray

Perimeter Treatment

1/4 to 1 lb (one to four 4 oz packets)

On Outside Surfaces

4 lb (sixteen 4 oz packets)

Under Structures or in Crawl Spaces³

> 1/4 to 1 lb (one to four 4 oz packets)

Specific Directions

- 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. Use 4 to 16 ounces (one to four 4 oz packets) of Durshan 50W per 50 gallons of water and apply as a coarse spray at the rate of about 10 gallons spray mixture per 1.000 sq ft to thoroughly and uniformly wet the band area.
- 2. For scorpions, remove accumulations of lumber, firewood and other materials which serve as harborage sites. Dursban 50W may be applied as a residual suray to surfaces immediately below such materials. Perimeter treatments may reduce pest immigration from SUFFOUNDING areas.
- 3. Apply spray to foundation areas. cracks and crevices, along sill line. foundation vents, door frames and other areas where pests may find entry or harborage. Apply up to 10 galions per 1000 sq ft depending on surface texture and type of surface. Use low pressure to minimize spleshback. Avoid puddling.

Ornamentals - (Outdoor, Greenhouse, Shadebouse, Nurseries, etc.) Use Dursban 50W to treat flowers, shrubs, evergreens, vines and shade and flowering trees found to be infested with pests listed in the following table. Dilute Dursban 50W 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 course 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 State Agricultural Experiment Station or Extension Service Specialist for application timing and other specific use information.

^{*}Superscripts refer to "Specific Directions".

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Note for Greenhouse Grown Ornamentals: Environmental factors significantly affect physioloxicity. While Dursban 50W has been lested on numerous ornamental plants without causing serious physioloxicity, because of the numerous varieties grown, it is recommended that a small group of plants be treated at the recommended rate under the anticipated growing conditions and observed for physioloxic symptoms. Two test sprays should be made 7 days apart and the plants observed for another 7 days after the second treatment. Significant physioloxicity has been observed in the following species following treatment with Dursban 50W.

Apply to these species at your own risk.

Plant Species

Common Name copperieaf zebra plant schefflera black olive Daggyas cissus croton ficus weeping fig Cuban laurel yellow hibiscus red/Chinese hibiscus impations Boston fern, fluffy ruffle fern petunia Belinda, caramia, lavande, Jack Frost

Scientific Name Acalyphis wilkesiana Aphelandra squarsa Brassaia actinophylla Bucida buceras Carica papaya Cissus anuarctica Codiaeum variegatum Ficus rutada Ficus pumila Ficus retusa Hibuscus calycinus Hibuscus rosa-sinensis Impatiens spp. Nephrolepis exaltate Penmia 500.

Rosa spp.

Pest† adelpids

(cooley spruce gall) (eastern spruce gall) (pine bark)

ants (including foraging fire

ants) aphids (apple)

(chrysanthemum)

(cottonwood) (elm leaf)

(peach)

(rose)

(spirea) armyworms

(fall)

(yellowstriped

bagworms1 boxelder bugs

cankerworms catalpa sphinx

chiggers

citrus mealybugs

clover mite

cockroaches

(American)

(smokey brown)

(Asian wood)

Amount of Dursben 50W in Water to Make:

50 gal

100 gal

1/4 oz (one 4 oz packet)

1/2 lb

(two 4 oz packets)

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 nymphs.
- 5. For effective control of fall webworm, direct spray into web and immediately surrounding foliage.

```
clm spanworms
fall webworms5
grasshoppers
green fruitworm
hornworms
jackpine budwarm
juniper webworms
katydids
lace bugs
leashoppers
leafrollers<sup>2</sup>
maple leafcutter<sup>3</sup>
mites<sup>4</sup>
  (red spider)
  (southern red)
oleander caterpillars
orange tortrix
periodical cicada
plant bugs
poplar tentmaker
phyllids
puss caterpillars
rose chafer
sawfiles, exposed
  (pine)
  (pin oak)
 (redheaded)
sowbugs
spittlebugs
spring elm caterpillars
spruce budworms
tent caterpillars
  (eastern)
  (forest)
  (western)
thombugs
walnut caterpillars
western spruce budworms
whiteflies
yellownecked caterpillars
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armyworms (beet) beetles (native elin bark)¹ cutworms leafhoppers mahogany webworms mealybugs mimosa webworms moths (browntail) (Cypress tip) (Douglas fir tussock) (European pine shoot) (gypsy)² (holly bug) (Nantucket pine tip) (Pandora) (pitch pine tip) (subtropical pine tip) (tussock) oakworms (California orangestriped) (redhumped) redhumped caterpillars thrips (exposed) weevils (blackvine)³ (yellow poplar) (pine reproduction)	1/2 lb lb (two 4 oz oz packets)	(four 4 packets)	1. To reduce twig and branch feeding by bark beetles, applications should be made in the spring or early summer. 2. To control migrating and invading gypsy moth larvae, treat trunks and foliage. 3. Blackvine weevils are night feeders, late afternoon spraying will give control in some areas.
foliar feeding beetles (blister) (cottonwood leaf) (elm leaf) (flea) (fuller rose) (Japanese) (June) (willow leaf)	1/2 to 1 lb (two to four eight 4 oz packets)	1 to 2 lb (four to 4 oz packets)	1. For cottonwood leaf beetles, use Dursban 50W in water to control larvae and adults infesting cottonwoods. Make the treatment when field counts indicate damaging beetle populations are developing or present.

15 7 20

borers ¹ : clearwing moths	1 lb 2 lb		1. For borers, apply Dursban 50W to the trunks and lower limbs of
(ash)	(four 4 oz	(eight 4 oz	
(dogwood)	packets)	packets)	- Garage assuming a constant loss
(lesser peachtree) (lilac)			State Agricultural Experiment
(oak)			Station or Extension Service
(rhododendron)			Specialist for proper time to treat. Apply uniformly as a coarse low-
metallic wood			pressure spray.
(bronze birch)			promise spray.
(flatheaded appletree)			
(twolined chestnut)			
longharned beetles			
(locust)			
(red oak)			
leafminers needleminers			
(Jeffrey pine)			
(lodgepole pine)			
(spruce)			
scale crawlers			
(cottonycushion)			
(cottony maple)			
(cuonymus)			
(Fletcher)	•		
(Florida wax)			
(golden oak) (hemispherical)			
(lecanium)			
(magnolia)			
(oak kermes)			
(oystershell)			
(pine needle)			
(San Jose)			
(tea)			
(white birch)			
borers	3 lb		1. For peachtree herers, apply
(cottonwood)	6 Ib	(amounts)	Dursban 50W in water to flowering
(peachtree) ¹	(twelve four	(twenty-	trees and shrubs of the genus Prunus as a trunk spray before newly-
	4 oz packets)	4 oz packets)	• •
	· ··· person,	v or pursually	as a coarse, low-pressure spray.
			Thoroughly wet all bank areas from
			ground level to scaffold limbs.
wood infesting beedes ¹	8 lb	16	1. For preventive treatment,
(ambrossia)	1/2 lb		apply the spray to the main trunk
(Anobiidae)	(thirty-two	(sixty-	
(black turpentine)	Six	A	threat of attack exists from nearby
(cottonwood leaf)	4 oz peckets)	4 oz packets)	infested trees.
(European elm bark) (native elm bark)			For remedial treatment, apply
(millow)			the spray to the main trunk of
\			infested trees when damage occurs
			but before adult beedes begin to
			cmerge.
		BEST	AVAILAGLE COPY
*Superscripts refer to "Specific Direct	ctions".	_· -· •	

*Superscripts refer to "Specific Directions".

6/17/93

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Tree Pests (Nurseries, Plantations and Folled Trees)

Use Dursban 50W to treat shade and flowering trees, plantation trees, transplant trees and evergreens found to be infested with pests listed in the following table. Folled trees should be treated as necessary. Dilute Dursban 50W 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 to 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.

Attention: For felled trees, west after cutting. Do not handle until spray has dried, or wear protective clothing. Treat only fruit and nut trees identified in the "Tree Fruits and Nuts" section of this label.

Consult your State Agricultural Experimental Station or Extension Service Specialist for application timing and other specific use information.

Pest†
adelgids
(cooley spruce gall)
(castern spruce gall)
(pine bark)
aphids
(apple)
(chrysanthemum)
(cottonwood)
(elm leaf)
(peach)
(rose)
(spirea)
bagworms ¹
boxekter bugs
cankerworms
carpenier anis ⁶
catalpa sphinx
citrus mealybugs
clover mite
elm spanworms
fall webworms ⁵
fire ants
greenstriped mapleworms
jackpine budworm
juniper webworms katydids
lace bugs
leashoppers
leafrollers ²
maple leafcutter ³
mites ⁴
(red spider)
(southern red)
oak skeletonizer
poplar tentmaker
puss caterpillars
rose chafer
sawfiles, exposed
(pine)
(pin oak)
spring elm caserpillars
spruce budworms
tent caterpillars
(eastern)
(forest)
(western)
walnut caterpillars
western spruce budworms
yellownecked caterpillars

	irsban 50W in Io Make
50 Gallons	100 Gallons
1/4 lb	1/2
16	-
(one 4 oz	(two 4 oz
packet)	•
packets)	

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 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 nymphs
- 5. For effective control of fall webworm, direct spray into web and immediately surrounding foliage.
- 6. If possible, locate carpenter ant nests and drench thoroughly.

BEST AVALLACION COPY

beetles ¹ (native elm bark) leafhoppers mahogany webworms	1/2 lb 1 lb (two 4 oz 4 oz	(four	1. To reduce twig and branch feeding on uninfested trees deemed to be of high value, apply a water spray to the tree crown. Application
mealybugs	packets)		should be made in the spring or early
mimosa webworms	packets)		summer using a sprayer that will
moths			give thorough coverage to the tree
(browntail)			CTOWR.
(Cypress tip)			
(Douglas fir tussock)			2. To control migrating and
(European pine shoot)			invading gypsy moth larvae.
(gypsy) ²			treat trunks and foliage.
(holly bud)			_
(Nantucket pine tip)			3. Blackvine weevils are night
(Pandora)			feeders. Late afternoon spraying will
(pitch pine tip)			give control in some areas.
(subtropical pine tip)			
(tussock)			
oakworms			
(California orangestriped) (redhumped)			
redhumped caterpillars			
thrips			
(exposed)			
wœvils	•		
(blackvine) ³			
(yellow poplar)			
(pine reproduction)	_		
foliar feeding beetles	1/2 to 1 lb	1 to 2	
(blister)	lb	_	beetles, use Dursban 50W in water
(cottonwood leaf) l	(two to four	(four to	to control larvae and adults infesting
(elm leaf)	eight		cottonwoods. Make the treatment
(flea)	4 oz packets)	4 oz packets)	
(fuller rose)			beetle populations are developing or
(Japanesse)			present. For seedlings, use 8 to 20
(June)			galions spray volume per acre.
(willow)			

borers 1: clearwing moths (ash) (dogwood) (lesser peachtree) (lilac) (oak) (rhododendron) metallic wood (bronze birch) (flatheaded appletree) (twolined chestnut) longhormed beetles (locust) (redoak) Cranberry girdler larvae² leafminers needleminers (Jeffrey pine) (lodgepole pine) (spruce) scale crawlers (cottonycushion) (cottony maple) (cuonymus) (Fletcher) (Florida wax) (golden oak) (hemispherical) (lecanium) (magnolia) (oak kermes) (oystershell) (pine needle) (San Jose) (tea) (white birch) borers (cottonwood) (peachtree)1

1 lb 2 lb (four 4 oz oz packets) packets)

(eight 4

1. For borers, apply Dursban 50W to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Agricultural Experiment Station or Extension Service Specialist for proper time to treat. Apply uniformly as a coarse low-

pressure spray.

2. For cramberry girdler larvae infesting Douglas fir seedlings, apply 2 lb of Dursban 50W per acre. Direct spray at the lower crown and stems using 50 gallons of water per acre. Irrigate immediately after application for soil penetration of 1 to 2 inches. Treat after egg laying during the summer.

3 lb
6 lb
(twelve 4 oz. (twentyfour
packets) 4 oz
packets)

1. For peachtree berers, apply Durshen 50W in water to flowering trees of the genus Primus 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.

•			
(eim leaf) (flea) (fuller rose) (native eim bark) ² (willowi leaf)	4 lb 8 l/3 lb (sixteen 4 oz three packets) packets)	-	1. 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. Forplantation trees, apply to individual trees using suitable hand or power operated spray equipment.
beetles ¹ (ambroasia) (Anobiidae) (black turpentine) (European elm bark) (Japanese) (June) (southern pine) (spruce)	8 1/3 lb lb (thirty-three 4 oz packets)	16 2/3 (sixty-seven 4 oz packets)	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 or before adult beetles begin to emerge. For plantation—trees, apply to individual trees—using mitable hand-or power—
weevils	16 1/2 lb	33 1/3 lb	1. For southern pine
(northern pine)	(sixty-six		seedlings, treat insmediately after
(pales)	4 on packets)	packets)	transpinating. Treat each seedling
(pitch-cating)			with enough spray to thoroughly
(ania)			wet the foliage and stems to the

*Superscripts rafer to "Specific Directions".

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and the foliage and stems to the

point of reneff but do not use more than 6 gallons of spray per acre.

Tree Fruits and Nuts

(twig)

Use Dursban 50W at the dosages indicated by application as a foliar spray to control pests listed in the following table. Mix the required dosage of Dursban 50W in water. Spray for thorough and complete coverage of the foliage, using suitable hand- or conventional power- operated spray equipment. Treat when peats first appear or in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service Specialist for specific use information. Do not allow livestock to grane in treated areas.

-Attention: In California, do not work with or contact trees within 2 days after treatment.

		Amount of D		
Crop	Pest	50 Gallons	100 Gailons	Specific Directions
Apples	apple aphid	1 1/2 lb	3 lb	Make no more than 8 applications
••	apple maggot	(six 4 oz	(twelve 4	per season. Do not apply last
	codling moth	OK .	_	treatment within 28 days before
_	European apple	packets)	packets)	harvest or apply last two treatments
sawily	eyespotted bud motin			closer than 21 days apart.
	fruittree leafroller			
	green fruitworm			
	lesser appleworm			
	obliquebanded			
	leafroller			
	orange tortrix			
	oriental fruit moth pandemis leafroller			
	plum curculio			
	redbanded leafroller			
	rosy apple aphid			
	San Jose scale	•		
	tarnished plant bug			
	tufted apply budmoth			
	variegated leafroller			
Almonds	woolly apple aphid navel orangeworm	2 lb		Make no more than 3 applications
Allicings	peach twig borer	4 lb		per season to almonds and filberts
	San Jose scale	(eight 4 oz	(sixteen 4	and no more than 2 applications per
		OK	-	season to walnuts. Do not apply
		packets)	packets)	within 14 days before harvest.
Walnuts	codling moth			
	wainut scale			
		2 lb		
		4 Ib	/sinten A	
		(eight 4 oz	(sixteen 4	
		packets)	packets)	
Pecans	black pecan aphid	1 b	2 lb	Make no more than 5 applications
	hickory	(four 4 os	(eight 4 oz	per season. Do not apply within 28
shuckwa		packets)	peckets)	days of harvest. Do not allow
	pecan leaf scorch			livestock to graze in tremed orchards.
m.te				
	pecan nut casebearer pecan weevil			
	Phylloxera spp.		QE	ST AMA AND STATE
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