

Specimen Label

Dursban* 50W Insecticide in Water Soluble Packets Insecticide

NOT REVIEWED
In Accordance with PR Notice 89-2
Based on Draft Labeling Data 4/26/87

To Be Applied Only by or Under the Supervision of Commercial Applicators Responsible for Insect Control Programs. Not Intended for Use by Homeowners.

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]

50%

Inert Ingredients

50%

E P A. Registration No. 464-598

E P A. Est. 33967-NJ-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO:

PRECAUCION AL USUARIO:

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • CAUSES EYE IRRITATION • HARMFUL IF INHALED OR ABSORBED THROUGH SKIN

Do Not Take Internally • Do Not Breathe Dust • Do Not Get in Eyes, on Skin, or on Clothing • Wash Thoroughly After Handling and Before Eating or Smoking • Remove and Wash Contaminated Clothing Before Reuse.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching finger to back of throat. Never give anything by mouth to an unconscious or convulsing person. Call a physician. **If In Eyes:** Flush with plenty of water. Get medical attention. **If On Skin:** Wash with soap and plenty of water. Get medical attention if irritation persists. **If Inhaled:** Remove to fresh air. Symptoms of cholinesterase inhibition appear.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM (protopam), may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Environmental Hazards

This pesticide is toxic to birds and other 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 by cleaning of equipment or disposal of waste. • 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.

NOTICE

Read the entire label. Use only according to label directions.

Before buying or using this product read WARRANTY LIMITATIONS AND DISCLAIMER elsewhere on this label. If terms are not acceptable, return **unopened** package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **WARRANTY LIMITATIONS AND DISCLAIMER**.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

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464-598
Dursban* 50W

DIRECTIONS FOR USE

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

GENERAL INFORMATION

This outer protective package contains four 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.

DURSBAN 50W is a formulation designed for use as a spray to control various pests injurious to turf and ornamental plants. The pests controlled are listed in the accompanying table. DURSBAN 50W is compatible with insecticides, 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 prepared. 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.

MIXING INSTRUCTIONS

For paddle, sparger and by-pass agitation systems:

1. Fill the spray tank 1/3 full of water. NOTE: For paddle agitation systems, paddles should be covered with water.
2. Activate agitation system.
3. Add required number of water-soluble packets to obtain desired dilution.
4. Complete tank filling while the packet dissolves and DURSBAN 50W disperses.
5. 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 packets and DURSBAN 50W should be completely dispersed within approximately 5 minutes from the time they were added to the water.

USE AND DOSAGE RECOMMENDATIONS

Use DURSBAN 50W at the dosages indicated by application as a foliar spray to control the pests listed in the following tables. Make the application as a dilute or concentrate spray using conventional power-operated ground spray equipment that will ensure thorough and complete coverage of the foliage. Treat when pests appear or in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service Specialist for specific use information in your area.

PESTS OUT-OF-DOORS

General Information: Use DURSBAN 50W for control of certain pests on outside surfaces of buildings and lawns and ornamental plants, and for area control of ticks and chiggers and for mosquito control. Consult the following directions for dosage and application details to control the pests listed.

DOSAGES and DIRECTIONS for USE on TURF

Pest	Dosage DURSBAN 50W per 1/4 acre (11,000 sq. ft.)	Remarks
Ants	8 oz.	Spray when pests first appear; re-treat when needed. For sod web worms delay watering or mowing the treated area for 12 to 24 hours after treatment.
Armyworms	Two 4 oz. packets	
Chiggers		
Chinch bugs		
Clover mite		
Crickets		
Cutworms		
Earwigs		
Flies		
Grasshoppers		

Sod Webworms Ticks

Turfgrass (Hyper-dest Area)	16 oz. (four 4 oz. packets)	Spray suspected problem areas in mid April and again in mid May or as recommended by your local Agricultural Extension Service Specialist in your area.
White grubs Including (European Chaffer, Southern masked Chaffer and Japanese Beetle larvae)	16-32 oz. (four to eight 4 oz. packets)	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 for your area. Immediately after spraying irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.
Bluegrass Turf	8-32 oz. (two to eight 4 oz. packets)	Spray early in the season after adults first appear. Retreatment needed.

Pests of Ornamentals: Use DURSBAN 50W to treat flowers, shrubs, vines, shade and flowering trees, and evergreens 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 spray equipment in a manner to provide complete and uniform coverage. For best results apply a wetting spray to 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.

Pests on Outside Surfaces of Buildings: Use DURSBAN 50W at the rate of 5 pounds per 50 gallons of water (0.5% chlorpyrifos) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, sowbugs, spiders and ticks by application as a residual spray to outside surfaces of buildings including porches, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

NOTE: To help prevent infestation of buildings by ants, crickets, earwigs, millipedes and sowbugs (pillbugs), 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 ounces of DURSBAN 50W per 50 gallons of water and apply as a coarse spray at the rate of about 10 gallons spray mixture per 1000 sq. ft. to thoroughly and uniformly wet the band area.

Wood Boring Insects Infesting Shrubs and Trees such as Dogwood Borer, Lilac Borer, Ash Borer and Rhododendron Borer: 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 in your area. Mix at the rate of one pound of DURSBAN 50W in 50 gallons of water and apply uniformly as a coarse low pressure spray.

Pests of lawns, other Ornamental and Recreational Turf Grass Areas and Perennial Turf Grasses Grown Only for Seed: Use DURSBAN 50W to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 50W in enough water to obtain complete and uniform coverage of pest-infested areas and apply as a coarse low pressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the lawn should be moist at time of treatment.

**DOSAGES and DILUTIONS for USE on
ORNAMENTAL PLANTS**

Pest Controlled		Amount of DURSBAN 50W in Water to Make 50 Gallons
Aphids	Mites	4 oz. (one 4 oz. packet)
Bagworms	Orangestriped	
Eastern tent caterpillar	cakeworm	
Fall web worm	Spittlebugs	
Grasshoppers	Whitetflies	
	Yellownecked caterpillar	
Cutworms	Mimosa webworm	8 oz. (two 4 oz. packets)
Leafhoppers	Redhumped caterpillar	
Mealybugs	Thrips (exposed)	
Ash borer	Scale crawlers	16 oz. (four 4 oz. packets)
Osgewood borer	Oak lecanium	
Elm borer	Pine needle	
Rhododendron borer	Tea	
	White peach	
Peach tree borer		48 oz. (twelve 4 oz. packets)

Peach Tree Borer: Apply DURSBAN 50W to flowering trees and shrubs of the Genus Prunus in water 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. Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat your area.

NOTE: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment depending on exposure of treated areas to weathering conditions.

Attention: (Turf and Ornamental Plant Pests) Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden, fishpools and other bodies of water. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding.

Native Elm Bark Beetle: Prevention of Overwintering: To prevent the adult beetle from overwintering in uninfested trees and to reduce beetle populations in disease free areas apply DURSBAN 50W as a 0.5% (5 pounds of DURSBAN 50W per 50 gallons of water) mixture of chlorpyrifos in water to the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Applications can be made with either a back pack mist blower or a hydraulic pressure sprayer from spring through to the early fall. *Prevention of Branch and Twig Feeding on High Value Elm Trees:* To reduce the twig and branch feeding on uninfested trees deemed to be high in value apply a 0.5% chlorpyrifos water spray to the tree crown. Application should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown.

Area Control of Ticks and Chiggers: Use DURSBAN 50W to control ticks and chiggers infesting non-cropland areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible public health problem. Apply DURSBAN 50W in water at the rate of 8 oz. per acre using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

Attention (Area Control of Ticks and Chiggers) Do not allow public use of treated areas during application or until spray has dried.

Cottonwood Leaf Beetles. Use DURSBAN 50W to control

larvae and adults of the cottonwood leaf beetle infesting cottonwoods grown in nurseries and plantations by application at the rate of 4 to 6 ounces per acre using sufficient water to ensure thorough and uniform coverage of treated trees but avoid excessive runoff. Make the treatment using hand or power-operated ground spray equipment when field counts indicate damaging beetle populations are developing or present. For application use 8 to 20 gallons of spray volume per acre.

STORAGE AND DISPOSAL

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

Storage Keep water-soluble packets in original package and store in a cool dry place. Do not store below 32°F. Handle carefully when stored at temperatures of less than 50°F to avoid breakage of packets.

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.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company 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 therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.) under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories) buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following at the election of The Dow Chemical Company:

- (1) Refund of purchase price paid by buyer or user for product bought; or
 - (2) Replacement of amount of product used.
- The seller will not be liable for consequential or incidental damages or losses.

The terms of this Limit of Warranty and Liability cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations and Disclaimer in any manner.

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