



DURSBAN 90E  
Dursban 90E

DURSBAN 90E Insecticide

Controls Numerous Pests of Turf and Ornamental Plants

WARNING: KEEP OUT OF REACH OF CHILDREN. In proper  
Read Complete Precautions on Side Panel of this side

ACTIVE INGREDIENT:

Chlorpyrifos (90% active ingredient) . . . . . 50

INERT INGREDIENTS: . . . . . 50

NET WEIGHT 1.0 LBS (454 g)  
EPA REG. NO. 101-100-0100

<p>In case of an emergency endangering life or property involving this product, call collect 517-636-4400</p>	<p><b>AGRICULTURAL CHEMICAL</b> Do Not Store with Food, Feed, Drugs or Clothing</p>
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PRECAUCION AL USUARIO: Leasted no leer ng es ad a waste producto h esta que  
la etiqua le h va sido explicado imp omento  
TRANSLATION TO THE USER: If you cannot read English, do not use this product  
until the label has been fully explained to you.

DURSBAN 90E Insecticide is a wettable powder . . . . .  
. . . . .

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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.

#### Mixing Instructions

DURSBAN 50W mixes readily with water to form a suspension. Mix the required amount of DURSBAN 50W with a small quantity of water and add this premix while filling the spray tank. Alternatively, fill the tank with the required amount of water and then add the premix. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture. DURSBAN 50W contains a wetting agent. Do not use additional wetting agents, spreaders or stickers.

#### 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.

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

MAY BE FATAL IF SWALLOWED

CAUSES EYE IRRITATION

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. In case of contact, immediately flush eyes with plenty of water and get prompt medical attention if irritation develops or persists. Wash contaminated skin with soap and plenty of water.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

Environmental Hazards

This product is highly toxic to bees exposed to direct treatment or residues on crops. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service.

DURSBAM 50W insecticide is toxic to fish, birds and other wildlife. Fish and crustaceans may be killed if their waters are contaminated with this product. Keep out of lakes, streams, ponds, tidal creeks and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Use this product only as directed on this label.

#### PERMETHRIN 50W

General Insect Control: Use Permethrin Insecticide for control of certain insects on painted 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 use and application details to control the pests listed.

**Pests on Outside Surfaces of Buildings:** Use Permethrin 50W at the rate of 1/2 ounce per one gallon of water (0.5% chlorpyrifos) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, scudbugs, 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 pillbugs (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 2 ounces of PERMETHRIN 50W per 100 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: Infestation Through and From:** such as Dogwood Borer, Lilac Borer, Ash Borer and Rhododendron Borer: Apply Permethrin 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 quart of Permethrin 50W in 100 gallons of water and apply uniformly as a coarse low-pressure spray.

Pest	Dosage DURSBAN 50W per 1000 sq. ft.	Remarks
Turfgrass (Hyperodes) weevil	1 1/2 oz.	Apply to areas of problem areas in mid-June and again in late May or as recommended by your local Agricultural Extension Service Specialist in your area.
White grubs (Including European chafer, Southern masked chafer, and Japanese beetle larvae)	1 to 3 oz.	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 to 1 1/2 inch of water to wash the insecticide on the soil surface.

DOSAGES and DIRECTIONS for USE on TURF

Pest	Dosage DURSBAN 50W per 1000 sq. ft.	Remarks
Bluegrass billbug	1 1/2 to 3 oz.	Spray early in the season when adults first appear. Retreat when needed.

each tree. Apply 1/2 pint of diluted solution to trees and shrubs of the 2 1/2 inch diameter 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 uninfected trees and to reduce beetle populations in diseased trees, apply 0.5% DDT in kerosene as a 0.5% (1/2 pint of 1% DDT in 100 gallons of water) water spray along the trunk for the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not bark to peel off. Use a backpack sprayer to apply the spray right to the base of the trunk flare. Applications can be made with either a backpack mist blower or a hydraulic pressure sprayer from spring through to the early fall. Prevention of Twig and Branch Feeding on Infected Trees. To reduce the twig and branch feeding on uninfected 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 Tick Bites. Apply low insecticide to control ticks and children infesting non-cropland areas such as roadsides, pastures and trails, picnic areas, sports fields, and other recreational areas where the pests are present and create a nuisance or possible public health problem. Dilute in water at the rate of 1/2 pint per 100 gallons of water. per 2,000 sq. ft. with a hydraulic sprayer, mist applicator, backpack sprayer, or other suitable type of sprayer. Treat lawns, roadsides, picnic areas, and other areas before and after the peak of the tick population. Treat in the early spring, usually 40 to 100 days before the peak.

Attention: (Area Control of Ticks and Tick Bites): Do not allow children to play in treated areas until the insecticide has dried.

Pests of Lawns, other than Put and Recreational turf Grass Areas and Recreational turf Grasses Grown Only for Seed: Use DURSBAW 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 DURSBAW 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.

Pests of Ornamentals: Use DURSBAW 50W insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with pests listed in the following table. Dilute DURSBAW 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 over-spraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 days intervals, if needed.

Note: Greenhouse Grown Ornamentals. DURSBAW 50W has been tested on numerous ornamental plants without causing serious phytotoxicity. However, because of the numerous varieties grown it is recommended that a small group of the plants to be sprayed be tested before the entire greenhouse is treated.

DOSAGES and DIRECTIONS for Use on Lawns

Pest	Dosage DURSBAW 50W per 1000 sq. ft.	Directions
Ants	3/4 oz.	Spray when pests first appear; retreat when needed. For sod water, delay watering or mowing the treated area for 12 to 24 hours after treatment.
Armyworms		
Chiggers		
Chinch bugs		
Clover mite		
Crickets		
Cutworms		
Fleas		
Grasshoppers		
Sod webworms		
Ticks		

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.

DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN 50W in Water to Make		
	3 gallons	10 gallons	100 gallons
Aphids Bagworms Eastern tent caterpillar Fall webworm Grasshoppers	Mites Orangestriped oakworm Spittlebugs Whiteflies Yellow-necked caterpillar	0.25 oz. 0.6 oz.	0.5 lb.
Cutworms Leafhoppers Mealybugs	Mimosa webworm Redhumped caterpillar Tiniis (various)	0.5 oz. 1.6 oz.	1 lb.
Ash borer Dogwood borer Lilac borer Diplodendron borer	Scale crawlers: Oak lecanium Pine needle Tea White peach	1.0 oz. 3.0 oz.	2 lbs.
Bark tree borer		2.9 oz. 9.6 oz.	6 lbs.



#### STORAGE AND DISPOSAL

Pesticide disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

Container disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but 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, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

U.S. Patent No. 3,244,536

<p>U.S. ENVIRONMENTAL PROTECTION AGENCY          OFFICE OF PESTICIDE REGISTRATION          NOTICE OF PESTICIDE          REGISTRATION</p>	
<p>1. Name of the pesticide: _____</p> <p>2. EPA Registration Number: _____</p> <p>3. Name of the registrant: _____</p> <p>4. Address of the registrant: _____</p> <p>5. City, State, and ZIP Code: _____</p>	
<p><b>NOTE:</b> This notice is required by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Federal Food, Drug, and Cosmetic Act (FFDCA). It is a condition of the registration of this pesticide that the registrant must file this notice with the Agency.</p>	
<p>On the basis of the information submitted to the Agency, the Agency has determined that the pesticide is not likely to cause unreasonable adverse effects on the environment. The Agency has also determined that the pesticide is not likely to cause unreasonable adverse effects on the environment. The Agency has also determined that the pesticide is not likely to cause unreasonable adverse effects on the environment.</p> <p>A copy of the pesticide label and the registration information is being provided to the Agency. The Agency has also determined that the pesticide is not likely to cause unreasonable adverse effects on the environment. The Agency has also determined that the pesticide is not likely to cause unreasonable adverse effects on the environment.</p>	
<p><input type="checkbox"/> APPROVED</p> <p>SIGNATURE: _____</p>	<p>DATE: _____</p>

If in contact with mucous membranes, get medical attention.

If on skin, wash with soap and water. Get medical attention if irritation persists.

- d. Advise the label writer to change "Environmental Hazards" paragraph to read as follows:

This product is highly toxic to bees exposed to direct treatment on flowering crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

- e. Delete the "Notes: Greenhouse grown ornamentals..." paragraph. This product does not contain directions for use in a greenhouse.

- f. Add to your "Storage and Disposal" directions the following:

Do not contaminate water, food, or feed by storage or disposal. Open burning is prohibited.

Note the spelling of label in your disposal directions.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-72 enclosure for a further description of final printed labeling.

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.

Ray C. Allenberger  
Product Manager (12)  
Insecticide-rodenticide Branch  
Registration Division (1-767)

Enclosures