

USE DIRECTIONS

PESTS—INDOORS: General Information: Use DURSBAN 2 insecticide as a spot treatment to control cockroaches, ants, crickets, firebrats, silverfish, spiders and brown dog ticks in and around residential, institutional and commercial buildings including homes, apartment buildings, hospitals, stores and warehouses. Dilute DURSBAN 2 with water or with a suitable base oil to make a 0.25% or 0.50% chlorpyrifos spray as shown in the following SPRAY DILUTION CHART. Apply according to directions given for pests listed. Repeat the treatment as needed.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces* of DURSBAN 2 to Use	
	0.25% spray	0.50% spray
Water-base spray:		
1	1 1/3	2 2/3
3	4	8
5	6 2/3	13 1/3
10	13 1/3	26 2/3
Oil-base spray**		
1	1	2
3	3	6
5	5	10
10	10	21

*1 fluid ounce = 2 tablespoons = 6 teaspoonful

**Calculated on basis of deodorized kerosene

NOTE: Where quick knockdown and/or flushing action is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN 2 insecticide. For best results use dichlorvos at a concentration of 0.25% in both water and oil-base sprays, use pyrethrins at 0.25% in water-base and 0.05% in oil-base sprays. Consult labeling for the dichlorvos or pyrethrins product used to determine the amount needed to give the desired spray concentration. Also read and observe all use and handling precautions for these products.

COCKROACHES (including strains resistant to certain other insecticides), **ANTS, CRICKETS, FIREBRATS, SILVERFISH, SPIDERS:** Use a 0.25% spray to control light infestations and a 0.50% spray to quickly reduce heavy infestations. Apply as a coarse spray or with a paint brush to localized areas where these pests are found or normally occur, including dark corners of rooms and closets, cracks and crevices in walls, along and behind baseboards, beneath and behind sinks, stoves, refrigerators and cabinets, around plumbing and other utility installations. For ants apply to ant trails, also around doors and windows and wherever else these pests may find entrance. **Note:** A period of 4 to 7 days is normally required for maximum effect on cockroaches.

BROWN DOG TICKS: Thoroughly apply a 0.50% spray as a spot treatment to infested areas such as pet beds and resting quarters, nearby cracks and crevices, along and behind baseboards, window and door frames and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment. **DO NOT TREAT PETS WITH THIS PRODUCT.**

FOOD HANDLING ESTABLISHMENTS: Places other than private residences in which exposed food is held, processed, prepared or served. **PEST CONTROL IN MEAT PACKING AND FOOD PROCESSING PLANTS, FOOD STORAGE AREAS AND RESTAURANTS:** For control of cockroaches,

ants, silverfish, spiders, firebrats, crickets, and brown dog ticks apply a 0.50% spray as follows:

NON-FOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewer entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Apply the 0.50% spray as a spot treatment. Apply to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, palleys and similar areas where insects hide or through which they may enter.

FOOD AREAS — APPLICATION LIMITED TO CRACK AND CREVICE TREATMENT ONLY:

Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation also would be considered a food area). Apply the 0.50% spray in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases where cockroaches, ants, silverfish, spiders, firebrats, crickets and brown dog ticks hide. Do not use this product in conduits, motor housings, and electrical switch boxes.

Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces.

APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

WARNING (PESTS—INDOORS): For Spot Application Only. Do not use in poultry houses, other animal buildings or in edible products areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. Do not allow spray to contact food, feedstuffs and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish bowls (tanks) before spraying. Do not allow children in treated areas until surfaces are dry.

PESTS—OUT-OF-DOORS: General information: Use DURSBAN 2 for control of certain pests of lawns and ornamental plants, for area control of ticks and for mosquito control. Consult the following directions for dosage and application details to control the pests listed.

DOSAGE AND DILUTIONS FOR USE ON TURF

Area to be Treated	Amount of DURSBAN 2	Dilute with water to give
500 sq. ft.	3/4 fl. oz.	15 gallons
1,000 sq. ft.	1 1/2 fl. oz.	30 gallons
5,000 sq. ft.	7 1/2 fl. oz.	150 gallons
10,700 sq. ft.	1 pint	325 gallons
one acre	2 quarts	1,300 gallons

PESTS OF LAWNS AND OTHER ORNAMENTAL AND RECREATIONAL TURF GRASS AREAS: Use DURSBAN 2 insecticide to control ants, brown dog ticks, chinch bugs, crickets, cutworms, earwigs, grasshoppers and sod webworms (lawn moths). Mix DURSBAN 2 with water according to di-

rections given in the following table and apply as a coarse, low pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment, and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear; retreat when needed.

TO CONTROL CERTAIN WHITE GRUBS (larvae of European chafer and Japanese beetle): Use two to four times the amounts of DURSBAN 2 shown in the TURF table, i.e. 3 to 6 fl. oz. per 1,000 sq. ft. or 1 to 2 gallons per acre. Apply in enough water to obtain uniform coverage of the area treated followed immediately by thorough watering to wash the insecticide into the turf. For best results treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service specialist for proper time to treat in your area.

TO CONTROL TURFGRASS (HYPERODES) WEEVILS: use twice the amount of DURSBAN 2 shown in the above TURF table, i.e. 1 gallon diluted in 1,300 gallons of water per acre. Spray suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service specialist for proper time to treat in your area.

NOTE: To help prevent infestation of buildings by ants, crickets, earwigs and sowbugs (pillbugs), treat a band of soil 6 to 10 feet wide around and adjacent to the building, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use the same dosage and dilution recommended for control of these pests on turf as shown in the above table. Apply as a coarse spray to thoroughly and uniformly wet the band area.

PESTS OF ORNAMENTALS: Use DURSBAN 2 to control bagworms, cutworms, grasshoppers, leafhoppers, mealybugs, mites, spittlebugs, thrips (exposed) and whiteflies on flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute DURSBAN 2 with water according to directions given in the following table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage of infested plants. Avoid over-spraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed. **Note:** Do not use on azaleas, camelias, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pest Controlled	Amount of DURSBAN 2 in Water to Make		
	3 Gallons	10 Gallons	100 Gallons
Bagworms			
Grasshoppers			
Mites	0.5 fl. oz.	1.6 fl. oz.	1 pint*
Spittlebugs			
Whiteflies			

Cutworms			
Mealybugs			
Leafhoppers	1 fl. oz.	3.2 fl. oz.	1 quart**
Thrips (exposed)			

*Equivalent to 4 ounces of chlorpyrifos per 100 gallons

**Equivalent to 8 ounces of chlorpyrifos per 100 gallons

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

WARNING (LAWN AND PETS OFF TREATED AREAS): garden fishpools and their waters are contaminated. runoff is likely to occur. drift from areas treated.

AREA CONTROL OF TURF: non-crop land areas and camping sites, if pests are present and problem. Apply DURSBAN equivalent to 1 fluid sprayer, mist applicator, power spray equipment and ground surface and thorough coverage, use.

WARNING (AREA CONTROL): treated areas during a when weather conditions where runoff into lake likely to occur. Fish are contaminated with.

MOSQUITOES: Apply DURSBAN 2 according to the product label. Mix DURSBAN 2 with fuel oil, using sufficient area treated. Apply as such as hand and power spray equipment.

CONDITIONS AND

Condition of Area to be Treated

Level Control
None to medium vegetative cover
Medium to heavy vegetative cover
Adult control
Light to medium vegetative cover
Medium to heavy vegetative cover

The higher dosage will control where there is

WARNING (MOSQUITOES): and fish. Do not apply suit your State Fish and for mosquito control.

NOTICE: Seller warrants description and is ready when used in accordance with use, but neither this WARRANTY or FITNESS FOR extends to the use of under abnormal conditions or conditions.

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DURSBAN* 2 Insecticide

CONTROLS PESTS OF HOUSEHOLDS (COCKROACHES, ANTS, BROWN DOG TICKS, SILVERFISH, SPIDERS), TURF (CHINCH BUGS, SOD WEBWORMS, ANTS, BROWN DOG TICKS, CUTWORMS, EARWIGS, CRICKETS, GRASSHOPPERS, CERTAIN WHITE GRUBS, HYPERODES WEEVIL) AND ORNAMENTAL PLANTS (BAGWORMS, GRASSHOPPERS, LEAFHOPPERS, SPITTLEBUGS, MEALYBUGS, WHITEFLIES, EXPOSED THRIPS, MITES, CUTWORMS). ALSO RECOMMENDED FOR MOSQUITO CONTROL, AREA CONTROL OF TICKS, AND CONTROL OF HOUSEHOLD PESTS IN FOOD HANDLING ESTABLISHMENTS AS LISTED ON THE LABEL.

To be applied only by or under the supervision of pest control operators, public health organizations, mosquito abatement districts and other trained personnel responsible for insect control programs.

ACTIVE INGREDIENTS:

Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	25.0%
Aromatic petroleum derivative solvent	34.0%
Deodorized kerosene	33.3%
INERT INGREDIENTS:	7.7%

Contains 2 pounds of chlorpyrifos per gallon.

*Trademark of the Dow Chemical Company
U.S. Patent No. 3,244,586

GENERAL USE PRECAUTIONS

This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service. Promptly crush empty containers and bury them and wastes in locations away from domestic water supplies.

USE THIS PRODUCT ONLY AS SPECIFIED ON THIS LABEL.

ENVIRONMENTAL CAUTIONS: This product is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

WARNING: KEEP OUT OF REACH OF CHILDREN

See additional cautions on side panel

**MAY BE FATAL IF SWALLOWED — MAY BE ABSORBED THROUGH SKIN
MAY BE INJURIOUS TO EYES AND SKIN — COMBUSTIBLE**

Do not take internally. Do not get in eyes or on skin. Wash thoroughly after handling. Wash contaminated clothing before re-use. Flush contaminated eyes with plenty of water and get prompt medical attention. Avoid breathing vapors and spray mist. Avoid spraying food crops. Keep away from food, feedstuffs and domestic water supplies. Keep container closed. Do not use, pour, spill or store near heat or open flame. Handle concentrate in a ventilated area.

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

NET CONTENTS:

MANUFACTURED BY

AMVAC CHEMICAL CORPORATION

Los Angeles, CA 90023

EPA Reg. No. 5481-166-AA
EPA Est. 5481-CA-1

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WARNING (LAWN 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. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

AREA CONTROL OF TICKS: Use DURSBAN 2 to control ticks infesting non-crop land 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 2 in water at the rate of 1 pint per acre (equivalent to 1 fluid ounce per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsacks 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.

WARNING (AREA CONTROL OF TICKS): Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.

MOSQUITOES: Apply DURSBAN 2 to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix DURSBAN 2 with either water or oil, such as kerosene or No. 2 fuel oil, using sufficient spray volume to give uniform coverage of area treated. Apply the spray using suitable application equipment such as hand and power ground sprayers, mist applicators, and aerial spray equipment.

CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres of DURSBAN 2 will Treat
	DURSBAN 2 (fl. oz.)	Chlorpyrifos (pounds)	
Larval Control			
None to medium vegetative cover	0.8 to 1.6	0.0125 to 0.025	160 to 80
Medium to heavy vegetative cover	1.6 to 3.2	0.025 to 0.05	80 to 40
Adult Control			
Light to medium vegetative cover	1.6	0.025	80
Medium to heavy vegetative cover	3.2	0.05	40

The higher dosage will also give faster knockdown and longer residual control where there is little or no vegetative cover.

WARNING (MOSQUITO CONTROL): DURSBAN 2 is toxic to shrimp, crabs and fish. Do not apply to water containing crustaceans and fish. Consult your State Fish and Game Department before using this product for mosquito control.

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.