

TOBACCO STATES CHEMICAL CO. INC.  
LEXINGTON, KENTUCKY 40580

# DURSBAN®

READ entire LABEL before using this product.

### ADDITIONAL PRECAUTIONARY STATEMENTS Continued From Front Panel

## Keep Out Of Reach Of Children WARNING

Hazards to Humans and Domestic Animals  
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 reuse. 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.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

### ENVIRONMENTAL and USE HAZARDS

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.

DURSBAN 2 LB is toxic to fish, birds, and other wildlife. Do not apply directly to water. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where there are important resources. 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. Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and Local procedures.

Do not use in the presence of open flame. Combustible. Hazardous to life in a ventilated area.

### USE DIRECTIONS (Continued from Side Panel)

Attention (Area Control of Brown Dog Ticks and Chiggers): Do not use in areas of treated areas during application or until spray has dried.

Mosquitoes: Apply DURSBAN 2 LB to mosquito infested non-crop areas according to the conditions and rates on the following table. Mix DURSBAN 2 LB with either water or kerosene. Use kerosene or No. 2 fuel oil using a fuel oil sprayer. Apply to the entire area of area treated. Apply the minimum recommended rate of application. This has been found to give the best results. Do not apply to water.

### CONDITIONS and RATES to USE for MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres Treated (Gallon of DURSBAN 2 LB Will Treat)
	DURSBAN 2 LB (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control None to medium vegetative cover	0.5 to 1.0	2.5 to 5.0	80 to 160
Medium to heavy vegetative cover	1.0 to 2.0	5.0 to 10.0	40 to 80
Adult Control Light to medium vegetative cover	1.0	5.0	80
Medium to heavy vegetative cover	2.0	10.0	40

Warning: Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried.

### USE DIRECTIONS

Read entire label of Federal Law for this product. Do not use in areas of treated areas during application or until spray has dried.

PESTS Indoors: General Information — Use DURSBAN 2 LB insecticide to control the pests indicated in the areas listed below. Application with a Dursban 2 LB spray or spray mist is recommended for most pests. For spot treatments use the 0.5% spray. To reduce heavy infestations or to control persistent spray, use DURSBAN 2 LB with water or with a suitable base oil as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed. Do not use directly on food or on food handling establishments.

NOTE: Where duck and down and on flushing out on water. Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried.

### SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces of DURSBAN 2 LB to Use	0.25% spray	0.50% spray
Water-base spray			
1	0.25	0.5	1.0
2	0.5	1.0	2.0
3	0.75	1.5	3.0
4	1.0	2.0	4.0
5	1.25	2.5	5.0
Oil base spray **			
1	0.25	0.5	1.0
2	0.5	1.0	2.0
3	0.75	1.5	3.0
4	1.0	2.0	4.0
5	1.25	2.5	5.0

NOTE: \*\* Oil base spray is for use on surfaces. Do not use in areas of treated areas during application or until spray has dried.

Application Within Food Handling Establishments (Places Other Than Private Residences in Which Food is Held, Processed, Prepared or Served) Including But Not Limited to: Restaurants, Grocery Stores, Bakeries, Baking Plants, Canneries and Grain Mills. Use as a spot treatment to control cockroaches, including strains resistant to certain other insecticides, ants, crickets, firebrats, silverfish, and spiders.

NOTE: Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried.

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For Spot Treatment Only — Apply as a coarse spray or with a paint brush to localized areas where cockroaches, including strains resistant to certain other insecticides, ants, silverfish, crickets, firebrats, silverfish, and spiders 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. For silverfish apply to these pests may find entrance. For crickets use a 0.5% spray only. NOTE: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

For Control of Carpet Beetles: Thoroughly apply a 0.5% spray as a spot treatment along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets and other shelving and wherever else these insects are seen or suspected.

For Control of Brown Dog Ticks: Thoroughly apply a 0.5% spray as a spot treatment to infested areas such as pet beds and eating counters, nearby cracks and crevices, along and behind baseboards, window and door frames and 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 of pet areas. Apply a spot treatment with an EPA approved product required for direct application to pets.

Attention (Pests Indoors): Do not apply water base sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. If there is need to treat such areas use only oil-base sprays. Prior to application de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the "On" position. Do not use in poultry houses or other animal buildings. 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.

PESTS OUT OF DOORS: General Information — Use DURSBAN 2 LB for control of certain pests of lawns and ornamentals. Apply to areas of treated areas during application or until spray has dried. Do not use in areas of treated areas during application or until spray has dried.

### DOSAGE and DILUTIONS for USE on TURF

Pest	Dosage DURSBAN 2 LB per 1000 sq. ft.	Remarks
Ants (Army ants)	1.0 to 2.0	Spray when pests first appear. Repeat when needed.
Brown Dog Tick	0.5	For sod webworms delay watering or mowing the treated area of 12 to 24 hours after treatment.
Chigger	0.5	
Cockroach	0.5	
Cricket	0.5	
Earwig	0.5	
Firebrat	0.5	
Grasshopper	0.5	
Spider	0.5	
Tick	0.5	
Webworm	0.5	
White grub	0.5 to 1.0	Spray suspected problem areas in mid April and again in mid May or as recommended by your local Agricultural Extension Service Specialist for your area.
White grub (larva)	0.5 to 1.0	For white grubs spray when grubs are young and actively feeding near the soil surface. Usually during late July and August or early September. Immediately after spraying irrigate the treated area with 1 to 1 1/2 inch of water to wash the insecticide into the underlying soil.

(USE DIRECTIONS Continued on Side Panel)

TOBACCO STATES CHEMICAL CO., INC.  
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# DURSBAN®

ACCEPTED  
APR 1982  
EPA REG. NO. 226-2-B

## 4 lb. 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:** APHIDS, BAGWORMS, GRASSHOPPERS, LEAFHOPPERS, SPITTLEBUGS, MEALYBUGS, WHITE FLIES, EXPOSED THRIPS, MITES, CUTWORMS.

Also Recommended for Mosquito Control and Area Control of Brown Dog Ticks

### ONLY FOR SALE TO: Use and Storage by Serviceperson

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

(USE DIRECTIONS Continued from Back Panel)

**To control certain white grubs:** (Larvae of European chafers and Japanese beetles) Use two to four times the amount of DURSBAN 4 lb shown in the TURF table (i.e. 1 1/2 to 3 1/2 gal. per 100 sq. ft. or 1 1/2 to 3 gal. per acre). Apply in enough water to obtain 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 for best time to treat in your area.

**To control turfgrass (Hyperodes) weevils:** Use twice the amount of DURSBAN 4 lb shown in the TURF table (i.e. 3 gal. per 100 sq. ft. or 3 gal. 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 (spidbugs), treat a band of soil 4 to 10 feet wide around and adjacent to the building at 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 TURF table. Apply as a coarse spray to thoroughly and uniformly wet the band area.

#### DOSAGE and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled	Amt. of DURSBAN 4 lb in water to make		
	3 gallons	16 gallons	100 gallons
Aphids			
Bagworms			
Grasshoppers			
Mites	0.25 fl. oz.	0.8 fl. oz.	0.5 gal.
Spittlebugs			
Whiteflies			
Cutworms			
Mealybugs			
Leafhoppers	0.5 fl. oz.	1.6 fl. oz.	1 pint
Thrips exposed			

1/2 Equivalent to 4 ounces of chlorpyrifos per 100 gallons.  
1/4 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 varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

**Pests of Ornamentals:** Use DURSBAN 4 lb to control aphids, 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 4 lb with water according to directions given in the above table and apply up to 1 1/2 times per week, spray equipment in a manner to provide complete and uniform coverage of infested plants. Avoid overspraying to the point of excessive runoff. Treat when plants are dry and repeat at 10 to 15 day intervals as needed. **NOTE:** Do not use on ornamental plants, particularly those that are highly sensitive, because of possible injury to these plants.

**Attention (Lawn and Ornamental Plant Pests):** Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden if spiders and other bodies of water.

**Area Control of Brown Dog Ticks:** Use DURSBAN 4 lb to control Brown Dog Ticks infesting non-plant areas such as road, driveway, and parking areas, and around utility poles, lawns and other recreational areas where the ticks are present and create a nuisance. Do not apply to areas with problem. Apply DURSBAN 4 lb in water at the rate of 1 1/2 pt. per acre (equivalent to 1 1/2 gal. per acre) using a hydraulic sprayer or other appropriate spray equipment. Do not use on areas where the ticks are not a problem. Do not use on areas where the ticks are not a problem. Do not use on areas where the ticks are not a problem. Do not use on areas where the ticks are not a problem.

Directions continued on back panel

#### ACTIVE INGREDIENTS

Chlorpyrifos (O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate)	44.6%
Aromatic petroleum derivative solvent	47.5%
INERT INGREDIENTS	7.9%
<b>TOTAL</b>	<b>100.0%</b>

Contains 4 pounds of chlorpyrifos per gallon  
Trademark of The DOW CHEMICAL CO

#### AGRICULTURAL CHEMICAL

Do Not Ship or Store with  
FOOD, FEEDS, or CLOTHING

#### KEEP OUT OF REACH OF CHILDREN

### WARNING

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a physician and/or transport to hospital.  
IF INHALED: Remove to fresh air. If poisoning symptoms appear, transport to hospital.  
IF ON SKIN: Immediately wash skin with plenty of water while removing contaminated clothing. Call physician. Wash clothing before reuse.  
IF IN EYES: Flush eyes with water for 15 minutes. Transport to hospital.

Read Complete Precautions on Side Panel

EPA Reg. No. 226-2-B EPA Established 226-KY-1

**NOTICE:** Seller warrants that the product conforms to its chemical analysis and is suitable for the purposes stated on the label. Seller does not warrant that the product will be effective against all pests. Seller does not warrant that the product will be effective against all pests. Seller does not warrant that the product will be effective against all pests. Seller does not warrant that the product will be effective against all pests.

**Net Contents:**  
**One Gallon (3.79 L)**



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## ADDITIONAL PRECAUTIONARY STATEMENTS

Continued From Front Panel

### Keep Out of Reach of Children

## WARNING

### Hazards to Humans and Domestic Animals

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 reuse. 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.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is antidote.

## ENVIRONMENTAL and USE HAZARDS

This product is highly toxic to birds exposed to concentrations of residues in plants. Precautionary information may be obtained from your Cooperative Agricultural Extension Service.

DURSBAN 4 LB. Also is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not spray when wind speed favors drift from treated areas. Do not use on aquatic water by means of equipment or hand sprays. Do not use on or near food crops. Do not use on ornamentals. Do not use on lawns. Do not use on lawns. Do not use on lawns. Do not use on lawns. Do not use on lawns. Do not use on lawns.

## (USE DIRECTIONS Continued from Side Panel)

Attention (Area Control of Brown Dog Ticks) — Do not use in poultry houses or other animal buildings. 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 other animals from treated areas before spraying.

Mosquitoes: Apply DURSBAN 4 LB. to mosquito infested non-crop areas according to the following table. Do not apply to lawns or other areas where DURSBAN 4 LB. will be mixed with water, such as kerosene or No. 2 fuel oil. Use the spray volume to give uniform coverage of areas treated. Apply the spray using suitable application equipment, such as hand and power ground sprayers, mist blower, and aerial spray equipment.

## CONDITIONS and RATES to USE for MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre (Fluid ounces) DURSBAN 4 LB.	Amount to Use per Acre (pounds) Chlorpyrifos	Number Acres Treated by 1 Gallon of DURSBAN 4 LB. Will Treat
Larval Control None to light vegetative cover	0.4 to 0.8	0.025 to 0.05	100 to 500
Medium to heavy vegetative cover	0.8 to 1.6	0.05 to 0.10	50 to 100
Adult Control Light to medium vegetative cover	0.8	0.05	100
Medium to heavy vegetative cover	1.6	0.10	50

\*The higher dosage will give better results, but will also give longer residual activity. Where there is a high concentration of mosquitoes, use the higher dosage. Do not use on lawns.

Warning (Mosquito Control) — DURSBAN 4 LB. is highly toxic to birds. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not use on aquatic water by means of equipment or hand sprays. Do not use on or near food crops. Do not use on ornamentals. Do not use on lawns. Do not use on lawns.

## USE DIRECTIONS

This is a general information chart for this product. Read the entire label for complete directions.

PESTS INDOORS — General Information — Use DURS EAN 4 LB. for control of certain pests indicated in the areas listed below by application as a 0.25% or 0.5% spray. For spot spray, use the 0.25% spray to control light infestations. For heavy infestations, use the 0.5% spray. Use DURS EAN 4 LB. with water or a suitable base oil as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

## SPRAY DILUTION CHART

Mixture Des. Rec.	Fluid Oz. of DURS EAN 4 LB. to Use	
	0.25% Spray	0.50% Spray
Water base spray		
1	2 1/2	5
3	7 1/2	15
5	12 1/2	25
10	25	50
Oil base spray **		
1	1 1/2	3
3	4 1/2	9
5	7 1/2	15
10	15	30

\*Note: 1 fluid ounce = 2.96 teaspoons or 6 teaspoons = 2 fluid ounces. Diluted on basis of deodorized kerosene.

NOTE — Do not use in poultry houses or other animal buildings. 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 other animals from treated areas before spraying.

## APPLICATION WITHIN FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS — Limited to Crack and Crevice Treatment Only

Use DURS EAN 4 LB. for control of certain pests of lawns and ornamental plants. Use area control of ticks and for mosquitos. Consult the following directions for dosage and application rates to control the pests listed.

Pests of Lawns and other Ornamental and Recreational Turf Grass Areas — Use DURS EAN 4 LB. Insecticide to control ticks on lawns, golf courses, tennis courts, cut lawns, etc. Use 0.25% spray and soil wettable lawn granules. Mix DURS EAN 4 LB. with water according to directions given in the following table and apply as a spot, low volume spray using suitable application equipment for broadcast. The lawn should be moist at time of treatment and there should be taken to obtain uniform coverage of pest infested areas. Repeat when needed.

## APPLICATION WITHIN RESIDENTIAL BUILDINGS INCLUDING HOMES AND APARTMENT BUILDINGS AND IN NONFOOD AREAS OF INDUSTRIAL, INSTITUTIONAL AND COMERCIAL BUILDINGS INCLUDING NONFOOD AREAS OF HOSPITALS, STORES, MANUFACTURING PLANTS AND WAREHOUSES:

For Spot Treatment Only — Apply as a coarse spray or with a paint brush to localized areas where cockroaches, including silverfish, and spiders are infesting. Apply to dark, hidden 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 stations. For ants apply to ant trails, also around doors and windows and wherever else these pests may enter. Note: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

For Control of Brown Dog Ticks — Thoroughly apply a 0.25% 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 covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment of pet areas. Additionally, treat pets with an EPA approved product registered for direct application to pets.

Attention (Pests Indoors) — Do not use in poultry houses or other animal buildings. 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 other animals from treated areas before spraying.

## PESTS OUT-OF-DOORS — General Information — Use DURS EAN 4 LB. for control of certain pests of lawns and ornamental plants. Use area control of ticks and for mosquitos. Consult the following directions for dosage and application rates to control the pests listed.

Pests of Lawns and other Ornamental and Recreational Turf Grass Areas — Use DURS EAN 4 LB. Insecticide to control ticks on lawns, golf courses, tennis courts, cut lawns, etc. Use 0.25% spray and soil wettable lawn granules. Mix DURS EAN 4 LB. with water according to directions given in the following table and apply as a spot, low volume spray using suitable application equipment for broadcast. The lawn should be moist at time of treatment and there should be taken to obtain uniform coverage of pest infested areas. Repeat when needed.

## DOSAGE and DILUTIONS for USE on TURF

Area to be Treated	Amount of DURS EAN 4 LB.	Dilute with Water to Give
100 sq. ft.	3.4 fl. oz.	14 gal.
500 sq. ft.	17.0 fl. oz.	70 gal.
1,000 sq. ft.	33.8 fl. oz.	140 gal.
10,000 sq. ft.	338 fl. oz.	1,400 gal.
100,000 sq. ft.	3,380 fl. oz.	14,000 gal.