

CODE

# DURSBAN® IIE INSECTICIDE

BEST DOCUMENT AVAILABLE

This product is available in 1/3, 1/2, 3/4, 1, 2, 3, 5, 8, or 15 ounce packets. See spray dilution chart for proper dosage and select package size accordingly. Read entire label before use. Do not remove packets from container except for immediate use.

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, Whiteflies, Exposed Thrips, Mites, Cutworms). Also Recommended for Mosquito Control and Area Control of Ticks.

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 [O,O-Diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]..... 20.72%  
Aromatic petroleum derivative solvent..... 74.28%

INERT INGREDIENTS:..... 5.00%  
100.00%

**KEEP OUT OF REACH OF CHILDREN.  
WARNING**  
See side panel for further precautionary statements.

EPA Reg. No. 491b-93 EPA Est. No. 279-NY-1

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**WARNING**

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.

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Do not induce vomiting unless directed by a physician. Contact a physician immediately.

**IF INHALED:** Remove victim to fresh air. Apply respiration if indicated.

**IF IN EYES:** Flush eyes with plenty of water. Contact a physician immediately.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water.

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

**ENVIRONMENTAL 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. It is also toxic to fish, birds and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

**PHYSICAL OR CHEMICAL HAZARDS**

**DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.**  
Handle concentrate in a ventilated area.

**DIRECTIONS FOR USE**

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

**DISPOSAL**

Do not reuse empty container. Wrap container and put in trash collection.

**PESTS INDOORS:** General Information: Use DURSBAN IIE Insecticide to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chlorpyrifos spray. Use the 0.25% spray to control light infestations and the 0.5% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute DURSBAN IIE with water or with a suitable base oil as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

**SPRAY DILUTION CHART**

Gallons of Spray Mixture Desired	Fluid Ounces* of DURSBAN IIE to Use	
	0.25% Spray	0.50% Spray
<b>Water Base Spray</b>		
1	1 1/3	2 2/3
3	4	8
5	5 2/3	11 1/3
10	11 1/3	22 2/3

<b>Oil Base Spray**</b>		
1	1***	2
3	3***	5
5	5	10
10	10	21

\*Note: 1 fluid ounce = 2 tablespoons = 5 teaspoonfuls  
\*\*Calculate on basis of deodorized kerosene  
\*\*\*Note: small packets available for these dilutions

NOTE: Where quick "knockdown" and/or "flushing action" is desired, pyrethrin or dichlorvos (DDVP) may be added to the spray mixture containing DURSBAN IIE Insecticide. For best results, use dichlorvos at a concentration of 0.25% in both water and oil-base sprays and use pyrethrin at 0.25% in water-base and 0.05% in oil-base sprays. Consult labeling for the pyrethrins or dichlorvos 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. Do not use Durban IIE in combination with dichlorvos (DDVP) or pyrethrins for treatment of food areas of food handling establishments.

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1932 Saw Road  
Medina, N.Y. 14113

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APPLICATION WITHIN FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS: Limited to Crack and Crevice Treatment Only: Apply a small amount of material directly into cracks and crevices, such as expansion joints between different elements of construction or between equipment bases and the floor, wall voids, motor housing, junction boxes or switch boxes, conduits or hollow equipment legs where cockroaches, crickets, firebrats, silverfish and spiders hide. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of feed and 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.

APPLICATION WITHIN RESIDENTIAL BUILDINGS INCLUDING HOMES AND APARTMENT BUILDINGS AND IN NONFOOD AREAS OF INDUSTRIAL, INSTITUTIONAL AND COMMERCIAL 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 strains resistant to certain other insecticides), ants, crickets, firebrats, silverfish and spiders are found or normally occur including dark corners or 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.

For control of brown dog ticks, thoroughly spray a 0.5% 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 coverings 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 E.P.A. approved product registered for pet use.

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 cover fish bowls (tanks) before spraying. 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 a 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.

PESTS OUT-OF-DOORS: General Information: Use DURSBAN II E 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.

Pests of Lawns and Other Ornamental and Recreational Turf Grass Areas: Use DURSBAN II E insecticide to control ants, brown dog ticks, chinch bugs, crickets, cutworms, earwigs, grasshoppers and sod webworms (lawn moths): Mix DURSBAN II E with water according to directions 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.

DOSAGE AND DILUTIONS FOR USE ON TURF		
Area To Be Treated	Amount Of Dursban II E	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
10,000 sq. ft.	1 pint	325 gallons
One acre	2 quarts	1,300 gallons

To control certain white grubs (larvae of European chafer and Japanese beetle) use two to four times the amounts of DURSBAN II E shown in the TURF table, i.e., 3 to 5 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 Agricultural Extension Service specialist for proper time to treat in your area.

To control turfgrass (Hyperodes) weevils, use twice the amount of DURSBAN II E 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 5 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 II E to control aphids, bagworms, cutworms, grasshoppers, leafhoppers, mealybugs, mites, spittlebugs, thrips (exposed) and white flies on flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute DURSBAN II E 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 overspraying 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, camellias, poinsettias, rose-bushes or variegated ivy because of possible injury to these plants.

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CODE DURSBAN® II E INSECTICIDE (Continued)

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DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN II E in Water To Make		
	3 gallons	10 gallons	100 gallons
Aphids			
Bagworms			
Grasshoppers			
Mites	0.5 fl. oz.*	1.5 fl. oz.	1 pint**
Spittlebugs			
White flies			
Outworms			
Mealy bugs	1 fl. oz.*	3.2 fl. oz.	1 quart***
Leafhoppers			
Thrips (exposed)			

\* NOTE: Small packets are available for these dilutions  
 \*\*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 plants pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

Attention (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.

Area Control of Ticks: Use DURSBAN II E to control ticks 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 II E in water at the rate of 1 pint per acre (equivalent to 1 fl. oz. per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power sprayer equipment. Treat low underbrush, grassy areas, weeds and ground surface and debris using enough volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

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

Mosquitoes: Apply DURSBAN II E to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix DURSBAN II E 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 of DURSBAN II E (1.1% active ingredient)	Amount of Chlorpyrifos (0.5% active ingredient)	Number of Acres 1 Gallon of Dursban II E Will Treat
Area Control			
None to medium vegetative cover	0.8 to 1.0	0.025 to 0.025	150 to 80
Medium to heavy vegetative cover	1.0 to 1.2	0.025 to 0.025	80 to 40
Light to medium vegetative cover	1.5	0.025	40
None to heavy vegetative cover	2.0	0.025	20

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

Warning (Mosquito Control): DURSBAN II E 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.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

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# CODE DURSBAN® II E INSECTICIDE

This product is available in 1/3, 1/2, 3/4, 1, 2, 3, 5, 8, or 15 ounce packets. See spray dilution chart for proper dosage and select package size accordingly. Read entire label before use. Do not remove packets from container except for immediate use.

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, Whiteflies, Exposed Thrips, Mites, Cutworms). Also Recommended for Mosquito Control and Area Control of Ticks.

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) ..... 20.72%  
**INERT INGREDIENTS** ..... 79.28%  
100.00%

\*Contains aromatic petroleum derivative solvent

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING**  
See side panel for further precautionary statements.  
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EPA Reg. No. 4816-593 EPA Est. No. 273-NY-1

DURSBAN - Registered trademark of The Dow Chemical Company

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

#### WARNING

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.

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Do not induce vomiting unless directed by a physician. Contact a physician immediately.

**IF INHALED:** Remove victim to fresh air. Apply respiration if indicated.

**IF IN EYES:** Flush eyes with plenty of water. Contact a physician immediately.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water.

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

#### ENVIRONMENTAL 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. It is also toxic to fish, birds and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

#### PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.  
Handle concentrate in a ventilated area.

**PESTS CONTROLLED:** General Information: Use DURSBAN II E Insecticide to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chlorpyrifos spray. Use the 0.25% spray to control light infestations and the 0.5% spray to quickly reduce heavy infestations. Areas directed. To prepare the spray, dilute DURSBAN II E with water or with a suitable base oil as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

#### SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces* of DURSBAN II E to Use	
	0.25% Spray	0.50% Spray
<b>Water Base Spray</b>		
1	1 1/3	2 2/3
3	4	8
5	5 2/3	13 1/3
10	13 1/3	25 2/3
<b>Oil Base Spray**</b>		
1	1***	2
3	3***	5
5	5	10
10	10	21

\*Note 1 fluid ounce = 2 tablespoonfuls = 5 teaspoonfuls

\*\*Calculate on basis of deodorized kerosene

\*\*\*Note small packets available for these dilutions

**NOTE:** Where quick "knockdown" and/or "flushing action" is desired, pyrethrins or dichloros (DDVP) may be added to the spray mixture containing DURSBAN II E insecticide. For best results, use dichloros at a concentration of 0.25% in both water and oil base sprays and use pyrethrins at 0.25% in water-base and 0.05% in oil-base sprays. Consult labeling for the pyrethrins or dichloros products used to determine the amount needed to give the desired spray concentration. Also read and observe all use and handling precautions for these products. Do not use Durshan III in combination with Dichloros (DDVP) or pyrethrins for treatment of food areas of food handling establishments.

### DIRECTIONS FOR USE

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

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DISPOSAL

Do not reuse empty container. Wrap container

SEE REVERSE SIDE

**FAIRFIELD AMERICAN CORPORATION**

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN II E in Water To Make		
	3 gallons	10 gallons	100 gallons
Aphids			
Bagworms			
Grasshoppers			
Mites	0.5 fl. oz.*	1.5 fl. oz.	1 pint**
Spittlebugs			
White flies			
Cutworms			
Mealy bugs	1 fl.oz.*	3/2 fl.oz.	1 quart***
Leafhoppers			
Thrips (exposed)			

\* NOTE: Small packets are available for these dilutions

\*\*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 plants pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

Attention (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.

Area Control of Ticks: Use DURSBAN II E to control ticks 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 II E in water at the rate of 1 pint per acre (equivalent to 1 fl. oz. per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power sprayer equipment. Treat low underbrush, grassy areas, weeds and ground surface and debris using enough volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

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

Mosquitoes: Apply DURSBAN II E to mosquito infested, non-crop areas, according to the conditions and rates shown in the following table. Mix DURSBAN II E with either water or oil, such as kerosene of 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

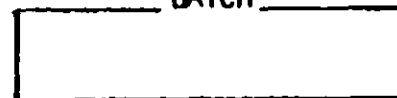
Condition of Area To Be Treated	Amount to Use Per Acre		Number of Acres 1 Gallon of Dursban II E Will Treat
	Dursban II E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control			
None to medium vegetative cover	0.8 to 1.5	0.025 to 0.025	150 to 80
Medium to heavy vegetative cover	1.5 to 3.2*	0.025 to 0.025*	80 to 40
Adult Control			
Light to medium vegetative cover	1.5	0.025	10
Medium to heavy vegetative cover	3.2*	0.025*	10

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

Warning (Mosquito Control): DURSBAN II E 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.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

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