

# RIGO'S DURSBAN\* 1E INSECTICIDE

To be Applied Only By or Under the Supervision of Pest Control Operators, Public Health Organizations, and Other Trained Personnel Responsible for Insect Control Programs.

CONTROLS NUMEROUS PESTS OF HOUSEHOLDS, TURF AND ORNAMENTAL PLANTS. ALSO RECOMMENDED FOR CONTROL OF CARPENTER ANTS, FLEAS, TICKS, AND CHIGGERS. See Attached Brochure for Additional Cautions and Complete Use Directions.

### ACTIVE INGREDIENT:

Chlorpyrifos (0,0-diethyl,0-(3,5,6-trichloro-2-pyridyl)(phosphorothioate) - - 12.6%

INERT INGREDIENTS: - - - - - 87.4%

Total 100.0%

Contains 1 pound Chlorpyrifos per gallon  
\*DURSBAN® is a Reg. Trademark DowElanco

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be harmful if swallowed. Do not take internally. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors. Do not wear contaminated clothing. Wash thoroughly after handling. Keep away from feed, foodstuffs and water supplies.

#### STATEMENTS OF PRACTICAL TREATMENT

**IF SWALLOWED:** Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately. **IF ON SKIN:** In case of contact, remove contaminated clothing and immediately wash skin with plenty of soap and water. **IF IN EYES:** Flush eyes with plenty of water. Call a physician. **IF INHALED:** Remove victim to fresh air. Get medical attention. **NOTE TO PHYSICIANS:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine, only by injection is an antidote.

#### PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

#### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish, birds and other wildlife. 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 when disposing of equipment washwaters. 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.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown for sale or other commercial use, or for commercial seed productions or for research purposes. Do not apply this product through any type of irrigation system.

#### STORAGE AND DISPOSAL

Store in original container only in a cool, dry location away from heat, flame, direct or indirect sunlight. Do not reuse empty container. Wrap container and put in trash collection.

E.P.A. Reg. No. 70-286 NET CONTENTS 1 PINT E.P.A. Est. No. 769-GA-1

Manufactured For

RIGO COMPANY

### PESTS INDOORS

General information: Use DURSBAN 1 E insecticide to control the pests indicated in the areas listed below by application at 0.25% or 0.5% Chlorpyrifos spray. Use the 0.25% spray to control light infestations and the 0.5% spray to heavily reduce heavy infestations or as directed. To prepare the spray, dilute DURSBAN 1 E with water as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

Gallons of Spray Mixture Desired (Water-base spray)	Fluid Ounces* of Dursban 1 E to Use	
	0.25% spray	0.50% spray
1	3	5 1/3
3	8	18
5	13 1/2	27
10	27	54

\*Note: 1 fluid ounce = 2 tablespoons = 6 teaspoons.

NOTE: Where quick knockdown and flushing action is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN 1 E insecticide. 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. Do not use DURSBAN 1 E in combination with dichlorvos (DDVP) or pyrethrins for treatment of food areas of food handling establishments.

Application Within Food Handling Establishments (Places Other Than Private Residences In Which Food Is Held, Prepared or Served) Including, But Not Limited to, Restaurants, Grocery Stores, Bakeries, Bottling Plants, Canneries and Grain Mills

Use as a spot treatment in and around both food and nonfood areas to control cockroaches (including strains resistant to certain other insecticides), ants (for all species of ants, including Argentine, Carpenter, Ghost, and Pharaoh; apply spray to ant trails and wherever ants are seen), crickets, firebrats, silverfish, spiders and stored product insects such as confused flour beetles, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths and red flour beetles. Apply as a coarse, low-pressure (20 psi or less) spray to localized areas where the above pests have been seen or are suspected of hiding or entering. Apply only enough spray to thoroughly cover the surfaces treated using special care to avoid unnecessary runoff. Do not introduce the spray into the air or blow the spray to contact food or food-contacting surfaces. Areas treated may include dark corners of rooms and closets; along and behind baseboards; beneath and behind stoves, refrigeration units and similar food preparation areas and equipment; floor drains; and around plumbing and other utility installations. For all species of ants, including Pharaoh, Carpenter, Ghost, and Argentine Ants apply to ant trails and wherever these pests are seen. Spot treatment may include crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls and on and around equipment legs and bases of equipment. Equipment capable of delivering a pinstream of insecticide should be used. Repeat treatment as needed but not more than once every 7 days in restaurants and similar food service establishments or more often than once every 14 days in other types of food handling establishments. In case of emergency (call back), DURSBAN 1 E may be applied after 2 days from last treatment, but emergency use should be limited to once per month. Applications of this product in food handling establishments other than as a spot and/or crack and crevice treatment are not permitted.

Application Within Residential Buildings Including Homes and Apartment Buildings and Within Nonfood Areas of Industrial, Institutional, and Commercial Buildings Including Hospitals, Stores, Manufacturing Plants and Warehouses:

For Spot Treatment Only - Apply as a coarse spray or with a paintbrush to localized areas where cockroaches (including strains resistant to certain other insecticides), ants (for all species of ants, including Argentine, Carpenter, Ghost, and Pharaoh; apply spray to ant trails and wherever they are seen), clover mites, 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 and wherever else these pests may find entrance. For clover mites 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 on shelving, and wherever else these insects are seen or suspected.

For control of Fleas and Brown Dog Ticks: Thoroughly apply 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 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. To control the source of flea infestation, pets inhabiting the treated premises should be treated with a product registered for application to animals.

Attention (Pests Indoors): Do not apply water-base sprays of this product in conduits, motor housing, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not use in poultry houses or other animal buildings. Do not allow spray to contact food, foodstuffs, 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 fishbowls (tanks) before spraying.

### PESTS OUT-OF-DOORS

General information: Use DURSBAN 1 E insecticide for control of outside pests on outside of buildings and on lawns and ornamental plants, for area control of ticks and chiggers control. Consult the following directions for dosage and application details to control the pests listed.

Pests on Outside Surfaces of Buildings: Use DURSBAN 1 E at the rate of 5 1/3 fluid ounces per one gallon of water (0.5% Chlorpyrifos emulsion) to control ants (all species including Pharaoh, Carpenter, Ghost, and Argentine; spray ant trails and places where they are seen), clover mites, cockroaches, crickets, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths and red flour beetles, fleas, flies, millipedes, scorpions, spiders and ticks by application as a residual spray or with a paint brush to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Do not treat or allow the spray to contact plants (lawns, flowering plants, shrubs, trees, evergreens, etc.) because of possible injury. Repeat treatment as needed to maintain effectiveness.

NOTE: To help prevent infestation of buildings by ants, crickets, earwigs, millipedes, and sawbugs (pillbugs), treat a band of soil 6 to 10 feet wide around and adjacent to the buildings, also the building foundation to a height of 2 or 3 feet, where pests are active and may find entrance. Use 1 oz. DURSBAN 1 E per gallon of water and apply as a coarse spray at a rate of about 1 gallon spray mixture per 100 sq. ft. to thoroughly and uniformly wet the band area.

### Pests of Lawns and other Ornamental and Recreational Turf Grass Areas

Use DURSBAN 1 E to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 1 E in enough water (1-3 gals. per 1,000 sq. ft.) 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.

#### DOSAGE/DIRECTIONS FOR USE ON TURF

Pest	Rate (per 1,000 sq. ft.)	Remarks
Ants, Armyworms, Brown dog tick, Chigger, Chinch bug, Clover mite, Crickets, Cutworms, Earwig, Fleas, Grass hopper, Sod Webworms, Ticks	3 fl. oz.	Spray when pests first appear, repeat when needed. For soil webworms, delay watering treated areas for 12 to 24 hours after treatment.
Turfgrass (hypoxodes) weevil	6 fl. oz.	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 (European chafar and Japanese Beetle larvae only)	4 to 12 fl. oz.	For white grubs, spray when grubs are young and actively feeding near the 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 soil.
Bluegrass billbug	6 to 12 fl. oz.	Spray early in the season when adults first appear. For best results see label.

\*3 fl. oz. / 1,000 sq. ft. 15 fl. oz. / 5,000 sq. ft. = 1 quart / 10,700 sq. ft. = 1 gallon / acre.

### PESTS OF ORNAMENTALS

Use DURSBAN 1 E insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with pests listed in the following table. Dilute DURSBAN 1 E 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. NOTE: Do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

Dogwood Borer: Apply DURSBAN 1 E to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Extension

Service specialist for proper time to treat in your area. Mix at the rate of 4 fl. oz. of DURSBAN 1 E in 3 gals. of water and apply uniformly on trees as a coarse, low-pressure spray.

Peach Tree Borer: Apply DURSBAN 1 E 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 Extension Service specialist for proper time to treat in 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 (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.

### DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN 1 E in Water to Mix	
	3 gals.	10 gals.
Aphids, Bagworms, Eastern tent caterpillar, Orange-striped caterpillar, Fall webworm, Grasshoppers, Mites, Yellow-necked caterpillar, Spittlebug, Whiteflies, Yellowcrowned caterpillar, Scale crawlers: (exposed)	1 fl. oz.	3.2 fl. oz.
Cutworms, Leafhoppers, Mealybugs, Mimosa webworm, Thrips (exposed)	2 fl. oz.	6.4 fl. oz.
Ash borer, Dogwood borer, Lilac borer	4 fl. oz.	12.8 fl. oz.
Peach tree borer	11.6 fl. oz.	38.4 fl. oz.

Native Elm Bark Beetles: Prevention of Overwintering. To prevent the adult beetle from overwintering in uninfested trees and to reduce beetle populations in disease-free areas, apply DURSBAN 1 E insecticide as a 0.5% spray 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 backpack 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 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 1 E insecticide 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 1 E in water at the rate of 1 fl. oz. per 2,700 sq. ft. using a 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 2 1/2 to 6 gals. per 2,700 sq. ft. Attention (Area Control of Ticks and Chiggers): Do not allow public use of treated areas during application or until spray has dried.

### Treatment of Fire Ant Mounds

Apply DURSBAN 1 E as a drench diluted at the rate of 2 fl. oz. (4 tsp.) per 2 gallons of water. Gently sprinkle a total of 1 gallon of the diluted solution over the surface of each mound using a sprinkler can. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). For best results, apply in cool weather, 65-80 F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on label. Buyer assumes all responsibility for use and/or handling of this material when such use and/or handling is contrary to label instructions.

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**ACCEPTED**  
**DEC 03 1996**  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 76-286

NOV 24 1996

RECORDS SECTION