

RIGO

DURSBAN 1E INSECTICIDE

Controls Numerous Pests of Households, Turf and Ornamental Plants. Also Recommended for Mosquito Control and Area Control of Fleas, Ticks and Chiggers.

To Be Applied Only By or Under the Supervision of Pest Control Operators or Other Trained Personnel Responsible for Insect Control Programs.

ACTIVE INGREDIENTS:

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

INERT INGREDIENTS87.4%

TOTAL.....100.0%

Contains 1 pound of chlorpyrifos per gallon

KEEP OUT OF REACH OF CHILDREN (10 ft)

CAUTION (14 ft)

EPA Reg. No. 70-EIA

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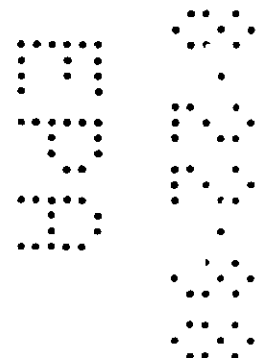
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EPA Reg. No. 70-KY-1

(8.1632 oz. (1 gal.))

ACCEPTED
Federal Insecticide, Fungicide, and Rodenticide Act
70-286

Manufactured by
RIGO COMPANY
Buckner, Kentucky 40010



PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

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

STATEMENT 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 for at least 15 minutes. Call a physician. NOTE TO PHYSICIAN: 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 soils. Do not contaminate water by cleaning of equipment or disposal of waste.

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.

STORAGE AND DISPOSAL (10 pt.)

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

PESTS INDOORS

General Information: Use DURSBAN 1E insecticide to control the pests indicated in the areas listed below by application at 0.25% or 0.50% chlorpyrifos spray. Use the 0.25% spray to control light infestations and the 0.50% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute DURSBAN 1E with water 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 1E to Use	
	0.25% spray	0.50% spray
Water-base spray		
1	3	5 1/3
3	8	16
5	13 1/2	27
10	27	54

*Note: 1 fluid ounce = 2 tablespoonfuls = 6 teaspoonfuls

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN 1E 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 1E 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, Caneries 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, 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 course, ~~beneficial~~ (20 psi or less) spray to localized areas where the pests have been seen or are suspected of hiding or entering. Apply only enough spray to thoroughly cover the surfaces treated with special care to avoid unnecessary runoff. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Areas treated may include ~~the~~ 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 ants, apply to ant trails and wherever

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these pests may find entrance. 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 stream 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 1E 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, 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 flea 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 (if any) 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 Insects): Do not apply water-based sprays of this product in conduits, water mainlines, junction and switch boxes or other electrical enclosures because of possible short circuiting. Do not use in poultry houses or other animal buildings. Repeat allow spray to contact food, feedstuffs, and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they have been contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has

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dried. Remove pets and cover fishbowls (tanks) before spraying.

PESTS OUT-OF-DOORS

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

Pests on Outside Surfaces of Buildings: Use DURSBAN 1E at the rate of 5 1/3 fluid ounces per one gallon of water (0.5% chlorepyrifos emulsion) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, scabbars, 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 scabbars (millbugs), 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 2 pints of DURSBAN 1E per 100 gallons of water (1 ounce per 3 gallons) and apply as a course spray at a rate of about 10 gallons spray mixture per 1000 sq. ft. to thoroughly and uniformly wet the band area.

Pests of Lawns and other Ornamental and Recreational Turf Grass Areas: Use DURSBAN 1E to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 1E in enough water (1-3 gal./1000 sq. ft.) to obtain complete and uniform coverage of pest-infested areas and apply as a course, 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 DURSBAN 1E insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the following table. Dilute DURSBAN 1E 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 do not spray directly to the point of excessive runoff. Treat infested areas and repeat at 7- to 10-day intervals, if needed. Do not use on carnations, geraniums, poinsettias, rose bushes, or other plants known to be susceptible to phytotoxicity.

Control of Fleas: Apply DURSBAN 1E to the trunks and lower limbs of

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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 one gallon of DURSBAN 1E in 100 gallons of water and apply uniformly on trees as a coarse, low-pressure spray.

Peach Tree Borer: Apply DURSBAN 1E 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: Mosquitos 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.

Native Elm Bark Beetle: Prevention of Overwintering. To prevent the adult beetle from overwintering in uninfected trees and to reduce beetle populations in disease-free areas, apply DURSBAN 1E 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 back pack 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 uninfected trees deemed to be high in value, apply 0.5% chlorepyrifos 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 1E 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 1E in water at the rate of 2 quarts per acre (equivalent to 1 gallon per 2,700 sq. ft.) using a hydraulic sprayer, mist sprayer, backpack sprayer, or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, woods, and ground surfaces and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre (2 1/2 to 6 gal. per 2,700 sq. ft.).

Attention (Area Control of Ticks and Chiggers): Do not allow children or pets to enter treated areas during application or until spray has dried.

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DOSAGES AND DIRECTIONS FOR USE ON TURF

Pest	Dosage DURSBAN 1E per 1000 sq. ft.	Directions
Beetle: Annularis Brown dog ticks Chiggers: Chinch bugs: Clover mites: Crickets Cutworms: Ear- rings: Fleas Grasshoppers Sod Webworms Ticks	3 fl. oz. *	Spray when pests first appear retreat when needed. For soil injury or damage to lawns or nurseries the treated areas for 12 to 24 hours after treatment.
Turfgrass (Hyacinths) 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 grubs (European chaffer and Japanese Beetle Japanese beetle)	5 to 10 fl. oz.	Spray 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 soak the treated area with 1/2 to 1 inch of water to wash the insecticide into the soil.
Blizzard killer	5 to 10 fl. oz.	Spray only in the season when adults first appear. Retreat as needed.

* 40 fl. oz. per 1000 sq. ft. - 15 fl. oz. per 5000 sq. ft. - 1 quart
per 1000 sq. ft. - 1/2 quart per 5000 sq. ft.

Prepared Eye Protection: To protect your eyes, wear safety goggles and goggles
with airtight gaskets. Wash your face and hands with soap and water after
application. If soil attached to hands or clothes is washed by completely
soaking the ball of your foot in a hot water solution of DURSBAN 1E
diluted at the rate of 10 fl. oz. per 100 gallons of water. Do
not use handkerchiefs or towels to wipe your face with. Wash hands
thoroughly. Keep children and pets completely out of the area
treated. Generally about 20 seconds. Wear rubber gloves. Do not
smoke during this operation.

Treatment of Pests: To control pests, DURSBAN 1E is a contact insecticide
which kills insects on contact. It is effective against many insects
including: beetles, crickets, cutworms, earwigs, fleas, grasshoppers,
sod webworms, ticks, and weevils. The only insecticide

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PIGO DUREBAN 15 INSECTICIDE

and pressure (100 psi) to a 1/2" diameter (12 in. ft.). For best results, spray the plants with PIGO DUREBAN 15 in the early morning or late afternoon. Treat the ground as the ground. Pressurized equipment should be used for application of this product. Reducing product application rate will reduce the effectiveness of the product.

Mosses: Apply PIGO DUREBAN 15 insecticide to mosquito-infested areas according to the conditions and rates shown in the following table. Mix PIGO DUREBAN 15 with water in a sufficient amount to give uniform coverage of area treated. Apply the spray using suitable application equipment such as hand and power sprayer and backpack sprayer and aerial spray equipment.

WARNING: (Mosquito Control) Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control.

DOSAGE and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled		Amount of DUREBAN 1E in Water to Make		
		2 gallons	10 gallons	100 gallons
Aphids Baworms Eastern tent caterpillar Fall webworm Grasshoppers Mites	Dragonflies Caterpillars Whiteflies Yellow-legged caterpillars	1 fl.oz.	3.2 fl.oz.	2 pints*
Catkins Leafhoppers Mealworms Mites	Dragonflies Caterpillars Theatre Caterpillars	2 fl.oz.	6.4 fl.oz.	2 quarts**
Caterpillars Caterpillars Caterpillars Caterpillars	Caterpillars Caterpillars Caterpillars Caterpillars	1 fl.oz.	3.2 fl.oz.	1 quart+***
Caterpillars Caterpillars Caterpillars Caterpillars	Caterpillars Caterpillars Caterpillars Caterpillars	1 fl.oz.	3.2 fl.oz.	1 quart+***

* 1 pint = 16 fl. oz.
 ** 1 quart = 32 fl. oz.
 *** 1 gallon = 128 fl. oz.

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PIGO DURSOPAN 1E INSECTICIDE

CONDITIONS and RATES of USE for MOSQUITO CONTROL

Conditions of Areas to be Treated	Amount to Use per Acre		Number Acres 1 Gallon of DURSOPAN 1E Will Treat
	DURSOPAN 1E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control None to medium vegetative cover	1.5 to 3.2	0.025 to 0.05	160 to 80
Medium to heavy vegetative cover	3.2 to 6.4*	0.05 to 0.1*	80 to 40
Adult Control Light to medium vegetative cover	3.2	0.05	80
Medium to heavy vegetative cover	6.4	0.1	40

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

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

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