

DURSBAN 1-E

INSECTICIDE

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

ACTIVE INGREDIENTS
Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate] 12.6%
Aromatic Petroleum Distillate 21.5%
INERT INGREDIENTS 65.9%
Contains 1 pound chlorpyrifos per gallon

KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS

Hazards to Humans
Causes Eye Irritation — Harmful if Swallowed

Do not take internally • Do not get in eyes, on skin or clothing • Wash thoroughly after handling • Wash contaminated clothing before reuse • Avoid breathing vapors and spray mist • Avoid spraying food crops • Keep away from food, feedstuffs, and domestic water supplies • Keep container closed • Handle concentrate in a ventilated area.

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 • Do not cut or weld container

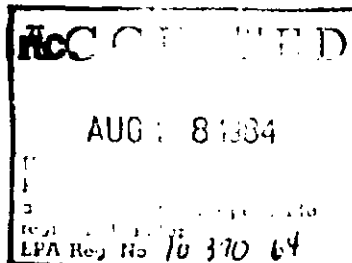
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS AGRICULTURAL CHEMICAL

Do not ship or store with food, feed, drugs or clothing.

EPA Reg No 10370-64

EPA Est No. 10370-TX-1

Manufactured By
Ford's Chemical & Service,
2739 PASADENA BLVD.
PASADENA, TEXAS 77502



PRECAUTIONARY STATEMENTS ENVIRONMENTAL HAZARDS

DURSBAN 1-E is toxic to fish, birds, and other wildlife. Do not apply directly to lakes, streams or ponds. Shrimp and crabs may be killed at application rates recommended on this label. 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. 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.

PRECAUCION Al Usuario: Si usted no lee ingles, no use esta producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

USE DIRECTIONS

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

PESTS INDOORS

General Information: Use DURSBAN 1-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 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.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces* of DURSBAN 1-E To Use	
	0.25% Spray	0.50% Spray
Water base spray		
3	3	5 1/2
3	8	16
5	13 1/2	27
10	27	54

Note: 1 fluid ounce = 2 tablespoonsful = 6 teaspoonsful
NOTE: Where quick "knockdown" and/or "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 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 FLEAS AND BROWN DOG TICKS, thoroughly apply a 0.5% spray as a spot treatment of 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.**

CONTINUED ON BACK PANEL

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CONTINUED FROM SIDE PANEL

For control of carpet beetles: Thoroughly apply an 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.

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. 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 fishbowls (tanks) before spraying.

PESTS OUT-OF-DOORS

General information: Use DURSBAN 1-E 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 1-E at the rate of 5 1/2 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, sawbugs, 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 (pilibugs), treat a band of soil 6 to 10 feet wide around and adjacent to the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 2 pints of DURSBAN 1-E per 100 gallons of water and apply as a coarse spray at the 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 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 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.

Pests of ornamentals: Use DURSBAN 1-E insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the 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 Experimental Station or Entomologist or Service Specialist for proper time to treat in your area. Mix at the rate of one gallon of DURSBAN 1-E in 100 gallons 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 Experimental Station or Entomologist or 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 pools and other bodies of water.

the Elm Bark Beetle: 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 an 0.5% mixture of chlorpyrifos 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 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 2 pints per acre (equivalent to 1 1/2 oz. per 2700 sq. ft.) using a hydraulic sprayer, mist applicator, 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 40 to 100 gallons per acre.

Attention (area control of ticks and chiggers): Do not allow public use of treated areas during application or until spray has dried. **Imported fire ant:** Treated of potted, containerized and balled and burlapped nursery stock. Use DURSBAN 1-E to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of the soil in a tank containing DURSBAN 1-E diluted at the rate of 16 fl. oz. per 100 gallons of water. Do not remove burlap wrap or plastic containers with drain holes prior to submerging. Keep soil submerged until complete saturation has occurred, normally about 30 seconds. Wear rubber gloves, boots and apron during this operation.

Treatment of fire ant mounds: Apply DURSBAN 1-E as a drench diluted at the rate of 2 fl. oz. (30cc) 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.

DOSAGES and DIRECTIONS for USE on TURF

PEST	DOSAGE DURSBAN 1-E per 1000 sq. ft.	REMARKS
Ants, Armyworms, Biscan, Dog, Ticks, Chiggers, Chinch Bugs, Clover Mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod Webworms, Ticks	3 fl. oz.	Spray when pests first appear. retreat when needed. For sod web worms delay watering or mowing the treated areas for 12 to 24 hours after treatment.
Turfgrass (Hyperodes Weevil)	6 fl. oz.	Spray suspected problem areas in mid April and again in May or as recommended by your local Agricultural Extension Service specialist for your area.
White Grubs (European Chafer and Japanese Beetle larvae only)	6 to 12 fl. oz.	For 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 irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.
Bluegrass Billbug	6 to 12 fl. oz.	Spray early in the season when adults first appear. Retreat as needed.

1 1/2 fl. oz. per 1000 sq. ft. = 7 1/2 fl. oz. per 5000 sq. ft. = 1 pint per 10700 sq. ft. = 2 quarts per acre.

DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests Controlled	Amount of DURSBAN 1-E in Water to Make		
	3 gallons	10 gallons	100 gallons
Aphids, Bagworms, Eastern Tent Caterpillar, Fall Webworm, Grasshoppers, Mites, Orange-striped Oakworm, Spittlebugs, Whiteflies, Yellow-necked Caterpillar	1 fl. oz.	3 1/2 fl. oz.	2 pints*
Cutworms, Leatherjackets, Mealybugs, Mimosa Webworm, Redhumped Caterpillar, Thrips (Exported)	2 fl. oz.	6 1/2 fl. oz.	2 quarts**
Ash Borer, Lilac Borer, Dogwood Borer, Scale Crawlers, Oak Lecanium, Pine Needle Tea, White Perch	4 fl. oz.	12 1/2 fl. oz.	4 quarts***
Peach Tree Borer	11 1/2 fl. oz.	38 1/2 fl. oz.	12 quarts****

*Equivalent to 4 ounces of chlorpyrifos per 100 gallons
 **Equivalent to 8 ounces of chlorpyrifos per 100 gallons
 ***Equivalent to 1 pound of chlorpyrifos per 100 gallons
 ****Equivalent to 3 pounds of chlorpyrifos per 100 gallons

Mosquitoes: Apply DURSBAN 1-E insecticide to mosquito-infested, non-crop areas according to the conditions and rates shown in the table. Mix DURSBAN 1-E with water 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. **WARNING (Mosquito Control):** Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control.

CONDITIONS and RATES to USE for MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres 1 Gallon of DURSBAN 1-E will treat
	DURSBAN 1-E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control - None to medium vegetative cover	1 1/2 to 3 1/2	0.025 to 0.05	160 to 80
Larval Control - Medium to heavy vegetative cover	3 1/2 to 6 1/2	0.05 to 0.1	80 to 40
Adult Control - Light to medium vegetative cover	3 1/2	0.05	80
Adult Control - Medium to heavy vegetative cover	6 1/2	0.1	40

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state or local procedures. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved state or local procedures.

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 expressly 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.

U.S. Patent No. 3,244,566

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