

PR 102 5-64

137



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES ✓

Christina M. Lawes
ROUSSEL UCLAF CORP.
95 Chestnut Ridge Road
Montvale, NJ 07645

SUBJECT: Label Amendment Submission of 12/14/93 in Response to PR Notice 93-7
EPA Reg. No. 10370-64
FORD'S DURSBAN 1E

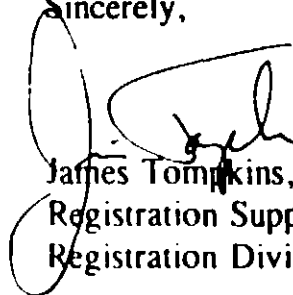
Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully **REMOVES THE PRODUCT FROM THE SCOPE** of PR Notice 93-7 once the comments (if any) on the attached sheet are addressed. Other than the alterations (if any) listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard.

Since your amendment proposes to delete uses directly and/or to delete uses implicitly through the use of exclusionary statements, the Agency will publish in the Federal Register a notice of receipt of your amendment to delete uses, as required by section 6(f)(1) of FIFRA. The Agency will defer action for 90 days from the date of the Federal Register notice to give affected minor users an opportunity to try to persuade you to retain the uses(s). When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted." Your stamped-accepted labeling will then be sent to you.

As described in Supplement A of PR Notice 93-11 (self-verification option), you may sell and distribute product bearing the submitted labeling before you receive a copy of your stamped-accepted labeling. Note that your registration is not amended until the comment period required by section 6(f)(1) of FIFRA has expired and the Agency has approved the amendment. Therefore, you may withdraw your proposed amendment at any time during the comment period and until you receive your stamped-accepted labeling.

Sincerely,



James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Enclosures



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

1085

Ford's

Dursban® 1-E

- * CONTROLS NUMEROUS PESTS OF HOUSEHOLDS, TURF AND ORNAMENTAL PLANTS,
- * ALSO RECOMMENDED FOR MOSQUITO CONTROL AND AREA CONTROL OF TICKS AND CHIGGERS

ACTIVE INGREDIENT:

Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate]..... 12.6%
 *INERT INGREDIENTS87.4%
 100.0%

Dursban is a registered trademark of Dow Elanco.
 *Contains Aromatic Petroleum Distillate
 Contains 1 pound Chlorpyrifos per gallon.
 U. S. Patent no. 3,244,586

PRECAUCION AL USARIO: 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.)

EPA REG. NO. 10370-64 EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN WARNING

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. Call a physician.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

See Side Panel For Additional
 Precautionary Statements

NET CONTENTS PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING

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.

Roussel Uclaf Corporation
 95 Chestnut Ridge Road
 Montvale, New Jersey 07645

164 041593k
 A-6/6/88

ACCEPTED
 with COMMENTS
 In EPA Letter Dated
 JUL - 1994
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
 10370-64

Environmental Hazards.

This product 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.

Physical and Chemical Hazards

COMBUSTIBLE: Do not use or store near heat or open flame. Do not cut or weld container.

USE DIRECTIONS

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

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.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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 (Water-based spray)	Fluid Ounces of Dursban 1-E To Use	
	(0.25% Spray)	(0.5% Spray)
1	3	5-1/3
3	8	16
5	13-1/3	27
10	27	54

Note: 1 fluid ounce = 2 tablespoons = 6 teaspoons

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing Dursban Insecticide Concentrate. 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 Insecticide Concentrate 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 non-food 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.

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-based 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 Insecticide Concentrate 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 Insecticide Concentrate at the rate of 5-1/3 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control *Ants*, *Clover Mites*, *Cockroaches*, *Earwigs*, *Fleas*, *Flies*, *Milkpedes*, *Mosquitoes*, *Sowbugs*, *Spiders And Ticks*, by application as a residual spray or with a paintbrush 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*, *Milkpedes*, *And Sowbugs (pillbugs)*, 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 1 pint of Dursban Insecticide Concentrate per 50 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 LAWN AND OTHER ORNAMENTAL AND RECREATIONAL TURF GRASS AREAS: Use Dursban Insecticide Concentrate to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute Dursban Insecticide Concentrate 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 Insecticide Concentrate to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the table. Dilute Dursban Insecticide Concentrate 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 Insecticide Concentrate to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area. Mix at the rate of one gallon in 100 gallons of water and apply uniformly on trees as a coarse, low pressure spray.

PEACH TREE BORER: Apply Dursban Insecticide Concentrate 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 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 fish pools 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 Insecticide concentrate as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of the trunks. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right at the base of the root flare. Applications can be made with either a back-pack mist blower or a hydraulic pressure sprayer from the 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% chlorpyrifos water spray to 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 Insecticide Concentrate 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

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pests are present and create a nuisance or possible public health problem. Apply Dursban Insecticide Concentrate in water at the rate of 2 pints 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 spray equipment. Treat low underbrush, grassy areas, weeds, and ground surfaces 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.

TREATMENT OF FIRE ANT MOUNDS: Apply Dursban Insecticide Concentrate as a drench diluted at the rate of 2 fl. oz. (30 cc) 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 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.

Dosage and Directions For Use On Turf

Pests	Dosage per 1,000 sq. ft.	Remarks
ants, armyworms, brown dog ticks, chiggers, chinch bugs, clover mites, crickets, cutworms, earwigs, fleas, grasshoppers, sod webworms, ticks.	3 fl. oz.	Spray when pests first appear, re-treat when needed. For sod webworms, 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 grub (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. Re-treat as needed.

Note: 1-1/2 fl. oz. per 1,000 sq. ft. = 7-1/2 fl. oz. per 5,000 sq. ft. = 1 pint per 10,700 sq. ft. = 2 quarts per acre.

Dosages And Dilutions For Use On Ornamental Plants

Pests Controlled	Amount in water to make		
	3 Gallon	10 Gallons	100 Gallons
aphids, bagworms, eastern tent caterpillar, fall webworms, grasshoppers, mites, orange striped oakworm, spittle bugs, whiteflies, yellownecked caterpillar.	1 fl. oz.	3.2 fl. oz.	2 pints*
cutworms, leafhoppers, mealybugs, mimosa webworms, redhumped caterpillar, thrips (exposed).	2 fl. oz.	6.4 fl. oz.	1 quart**
ash borer, lilac borer, dogwood borer, scale crawlers: Oak lecanium, pine needle, tea, white perch.	4 fl. oz.	12.8 fl. oz.	4 quarts***
peach tree borer	11.6 fl. oz.	38.4 fl. oz.	12 quarts****

*Equivalent to 4 ounces of chlorpyrifos per 100 gallons.

***Equivalent to 1 pound of chlorpyrifos per 100 gallons.

** Equivalent to 8 ounces of chlorpyrifos per 100 gallons

****Equivalent to 3 pounds of chlorpyrifos per 100 gallons.

MOSQUITOES: Apply Dursban Insecticide Concentrate to mosquito-infested, non-crop areas according to the conditions and rates shown in the table. Mix 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 of acres 1 gallon of Dursban Insecticide Concentrate will treat
	Dursban 1-E (fl. oz.)	Chlorpyrifos (pounds)	
Larval control - none to medium vegetative cover	1.6 to 3.2	0.025 to 0.05	160 to 80
Larval control - 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
Adult control - 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.

Note: 2 tablespoons=1 fluid ounce.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose 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, express or implied, extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Ford's PM-19

Reg # 10370-64

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Dursban® 1-E

- * CONTROLS NUMEROUS PESTS OF HOUSEHOLDS, TURF AND ORNAMENTAL PLANTS,
- * ALSO RECOMMENDED FOR MOSQUITO CONTROL AND AREA CONTROL OF TICKS AND CHIGGERS

ACTIVE INGREDIENT:

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

*INERT INGREDIENTS87.4%
100.0%

Dursban is a registered trademark of Dow Elanco.
*Contains Aromatic Petroleum Distillate
Contains 1 pound Chlorpyrifos per gallon.
U. S. Patent no. 3,244,586

PRECAUCION AL USARIO: Si usted no lee ingles, no use esta producto haste 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).

EPA REG. NO. 10370-64 EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN WARNING

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. Call a physician.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

See Side Panel For Additional Precautionary Statements

NET CONTENTS

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING

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.

Roussel Uclaf Corporation
95 Chestnut Ridge Road
Montvale, New Jersey 07645

f64 041593tk
A-6/6/88

ACCEPTED
with COMMENTS
In EPA Letter Dated
JUL - 5 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
10370-64

Environmental Hazards.

This product 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.

Physical and Chemical Hazards

COMBUSTIBLE: Do not use or store near heat or open flame. Do not cut or weld container.

USE DIRECTIONS

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

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.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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 (Water-based spray)	Fluid Ounces of Dursban 1-E To Use	
	(0.25% Spray)	(0.5% Spray)
1	3	5-1/3
3	8	16
5	13-1/3	27
10	27	54

Note: 1 fluid ounce = 2 tablespoons = 6 teaspoons

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing Dursban Insecticide Concentrate. 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 Insecticide Concentrate 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 non-food 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.**

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-based 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 Insecticide Concentrate 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 Insecticide Concentrate at the rate of 5-1/3 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control *Ants, Clover Mites, Cockroaches, Earwigs, Fleas, Flies, Millipedes, Mosquitoes, Sowbugs, Spiders And Ticks*, by application as a residual spray or with a paintbrush 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 Sowbugs (pillbugs)*, treat a band of soil 6 to 10 feet wide around and adjacent to the building

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foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 1 pint of Dursban Insecticide Concentrate per 50 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 LAWN AND OTHER ORNAMENTAL AND RECREATIONAL TURF GRASS AREAS: Use Dursban Insecticide Concentrate to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute Dursban Insecticide Concentrate 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 Insecticide Concentrate to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the table. Dilute Dursban Insecticide Concentrate 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 Insecticide Concentrate to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area. Mix at the rate of one gallon in 100 gallons of water and apply uniformly on trees as a coarse, low pressure spray.

PEACH TREE BORER: Apply Dursban Insecticide Concentrate 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 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 fish pools 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 Insecticide concentrate as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of the trunks. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right at the base of the root flare. Applications can be made with either a back-pack mist blower or a hydraulic pressure sprayer from the 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% chlorpyrifos water spray to 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 Insecticide Concentrate 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 Insecticide Concentrate in water at the rate of 2 pints 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 spray equipment. Treat low underbrush, grassy areas, weeds, and ground surfaces 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.

TREATMENT OF FIRE ANT MOUNDS: Apply Dursban Insecticide Concentrate as a drench diluted at the rate of 2 fl. oz. (30 cc) 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 surround area to 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.

Dosage and Directions For Use On Turf

Pests	Dosage per 1,000 sq. ft.	Remarks
ants, armyworms, brown dog ticks, chiggers, chinch bugs, clover mites, crickets, cutworms, earwigs, fleas, grasshoppers, sod webworms, ticks.	3 fl. oz.	Spray when pests first appear, re-treat when needed. For sod webworms, 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 grub (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. Re-treat as needed.

Note: 1-1/2 fl. oz. per 1,000 sq. ft. = 7-1/2 fl. oz. per 5,000 sq. ft. = 1 pint per 10,700 sq. ft. = 2 quarts per acre.

Dosages And Dilutions For Use On Ornamental Plants

Pests Controlled	Amount in water to make		
	3 Gallon	10 Gallons	100 Gallons
aphids, bagworms, eastern tent caterpillar, fall webworms, grasshoppers, mites, orange striped oakworm, spittle bugs, whiteflies, yellownecked caterpillar.	1 fl. oz.	3.2 fl. oz.	2 pints*
cutworms, leafhoppers, mealybugs, mimosa webworms, redhumped caterpillar, thrips (exposed).	2 fl. oz.	6.4 fl. oz.	1 quart**
ash borer, lilac borer, dogwood borer, scale crawlers: Oak lecanium, pine needle, tea, white perch.	4 fl. oz.	12.8 fl. oz.	4 quarts***
peach tree borer	11.6 fl. oz.	38.4 fl. oz.	12 quarts****

*Equivalent to 4 ounces of chlorpyrifos per 100 gallons.
 ***Equivalent to 1 pound of chlorpyrifos per 100 gallons.

** Equivalent to 8 ounces of chlorpyrifos per 100 gallons
 ****Equivalent to 3 pounds of chlorpyrifos per 100 gallons.

MOSQUITOES: Apply Dursban Insecticide Concentrate to mosquito-infested, non-crop areas according to the conditions and rates shown in the table. Mix 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. 11 4 11

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 Insecticide Concentrate will treat
	Dursban 1-E (fl. oz.)	Chlorpyrifos (pounds)	
Larval control - none to medium vegetative cover	1.6 to 3.2	0.025 to 0.05	160 to 80
Larval control - 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
Adult control - 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.

Note: 2 tablespoons=1 fluid ounce.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose 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, express or implied, extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.