12-31-7 PM-12

Specimen Label

The trade Bedistrant strong to be in social in 6 with the second strong to be used to the second which is a second strong to the second strong to the second which is a second strong to the second

Dursban*2EC Insecticide

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

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. SEE INSERT A, ATTACHED

Active Ingredient(s):

Contains 2 pounds of chlorpyrifos per gallon E.P.A. Registration No. 464-343 E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO: PRECAUCION AL USUARIO:

Si usted no les inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN • MAY BE INJURIOUS TO EYES AND SKIN

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

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 soap and water. If in Eyes: Flush eyes with plenty of water for 15 minutes. Call a physician,

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration.

Physical or Chemical Hazards

COMBUSTIBLE

Do Not Use or Store Near Heat or Open Flame.

Do Not Cut or Weld Container.

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.

DURSBAN 2EC insecticide is toxic to fish, birds, and other wildlife.

Do not apply directly to water.

Shrimp and crabs may be killed at application rates recommended on this label.

Do not apply where these are important resources.

Do not apply where runoff is likely to occur.

Do not apply when weather conditions favor dritt from areas treated.

Do not disposal of wastes.

NOTICE

Read the entire label. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under the Limit of Warranty and Liability.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-535-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs or Clothing

DIRECTIONS FOR USE

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

PESTS INDOORS

General Information: Use DURSBAN 2EC insecticide to control the pasts 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 2EC with water or with a suitable base oil" as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

•• Use only deodorized kerosene for oil-based sprays to be applied in food handling establishments.

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN 2EC insecticide. For best results, use dichlorvos at a concentration of 0.25% in both water and oil-base sprays; use pyrethrins at 0.25% in water-base and 0.05% in oil-base sprays. 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. Mixtures of DURSBAN 2EC and dichlorvos (DDVP) should not be sprayed on carpets.

Gallons of Spray	Field Duncest of DURSBAN ZEC to Use		
Mixture Desired	0.25% spray 0.50% sp		
Water-base spray			
1	1%	21/1	
3	4	9	
5	6%	131/5	
10	131/2	267/3	
Oil-based spray ⁺⁺			
1	1	2	
3	3	6	
5	5	10	
10	10	21	

SPRAY DILUTION CHART

+ Note: 1 fluid ounce = 2 tablespoonfuls = 6 tesspoonfuls

†† Calculated on basis of deodorized kerosene

Application Within Food Handling Establishments (Places Other Than Private Residences in Which Food is Held, Processed, 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 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. oply 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 allow the spray to contact food or food-containing 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 ants apply to ant trails and wherever these pests may find entrance. Spot treatment may encompass crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls, equipment legs and bases or which occur at points between different elements of construction or between equipment and floors. 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 2EC 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 A eas of Industrial, Institutional, and Commercial Building: Including Hospitals, Stores, Manufacturing Plants a d Warehouses: For Spot Treatment Only - Apply 3s a course spray or with a paint brush 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 3 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 suspecteo.

For control of 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.

Attention (Pests Indoors): Do not apply waterbase sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. If there is 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. Do not use in poultry houses. 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.

PESTS OUT-OF-DOORS

General Information: Use DURSBAN 2EC insecticide for control of certain pests on cutside 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 CURSBAN 2EC at the rate of 2 2/3 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, sowbugs, 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, patics, garages, refuse dumps and other areas where these pests congregate or have been seen. 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 buildings, also the building foundation to a height of 2 to 3 feei, where pests are active and may find entrance. Use 1



pint of DURSBAN 2EC 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 furf Grass Areas: Use DURSBAN 2EC to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 2EC 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 2EC 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 2EC 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 azalas, camellias, poinsettia: rose bushes, or variegated ivy because of possible injury to these plants.

Wood Boring Insects Infesting Shrubs and Trees Such as Dogwood Borer, Lilac Borer, Ash Borer and Rhodooendrun Borer: Apply DURSBAN 2EC to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat in your area. Mix at the rate of two quarts of DURSBAN 2EC in 100 gallons of water and apply uniformly as a coarse lowpressure spray.

DOSAGES and DIRECTIONS for USE on TURF

Fest	Decaye DURSBAN ZEC per 1000 ay. ft.	Remarks
Ants, A-myworms, Chiggers, Chinch bugs, Clover mite, Cinckets, Cutworms, Eenwigs, Fleas, Grasshoppers, Sod Webworms, Ticks	1½† π. oz.	Spray when posts first appear, re- treat when needed. For sod web- worms delay viatering or mowing the treated areas to 12 to 24 hours afte treatment.
Turigrass (Hyperodes) weevil	3 fl. oz	Spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Agn- cultural Extension Service specialist in your area
When grubs including (European chefer Southern masked chefer and Jepenese Beetle larvee}	3 to 6 ft oz	For white grubs spray when grubs are young and actively feeding nea- 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 % to 1 inch of water to wash the insecticide into the underlying soil
Bluegrass billbug	3 to # 11. oz	Sprey early in the season when adults first appear Retreat when maded

 τ 1½ fl. oz. per 1000 sq. it. = 7½ fl. oz. per 5000 sq. it. = 1 pint per 10,700 sq. it. = 2 quarts per acre

Peach Tree Borer: Apply DURSBAN 2EC to flowering trees and shrubs of the Genus Prunus in water as a trunk spray before nawly hatched larvae enter the trees. Apply as a

3

coarse, low-pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs. Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat 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.

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 2EC insecticide as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of 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 a 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 DURBAN 2EC insecticide to control ticks and chiggers infesting noncropland 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 2EC 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 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: Treatment of potted, containerized and balled and burlapped nursery stock. Use DURSBAN 2EC to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of soil in a tank containing DURSBAN 2EC diluted at the rate of 8 fl. oz. per 100 gallons of water. Do not remove buriap 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. An alternate treatment to submerging potted plants is to apply a solution containing DURSBAN 2EC (8 oz. per 100 gallons of water) as a substitute for plain water during routine watering activities. This solution should be applied to the point of runoff on a twice daily schedule for three consecutive days. Do not remove buriap wrap or container from plants prior to treatment. Application should be made in a well-ver triated area. Treatment of fire ant mounds. Apply DURSB \N 2EC as a drench diluted at the rate of 1 fl. oz. (30cc) per 2 hallons of water. Gently sprinkle a total of 1 gallon of the ciluted 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 DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Past Controlled		Amount of DURSBAN ZEC in Water to Make		
		3 gallons	18 gallose	138 gailons
Aphids Bagwerms Eastern tent caterpillar Fall webworm Grasshoppers	Mites Grangestriped setworm Spitlebugs Whiteflies Yellewnacked caterpillar	0.5 fl. nz.	1.6 A. az.	1 pint†
Cutworms Leafhoppers Mealytugs	Mimosa webworm Redhumped caterpilar Thinps (axposed)	1.0 ¶, oz.	3.2 ¶. oz.	1 quart" -
Ash berer Lilec borer Degwood borer Rhodedendron Borer	Scale crawlers, Dak lecanium Pine needle Tea, White peach	2.0 ft. oz.	6.4 1 . oz.	2 quens ⁺⁺⁺
Peack tree borer	- <u>-</u>	5.8 ft. oz.	19.2 fl. az.	i quarts†+++

* Equivalent to 4 ounces of chlorpvrifes per 100 callons

** Equivalent to 8 ounces of chlorpyrifos per 100 gallons

+++ Equivalent to 1 pound of chlorpyrifes per 100 gallons

**** Equivalent to 3 pounds of chlorpynios per 100 gallons

Mosquitoes: Apply DURSBAN 2EC insecticide to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix DURSBAN 2EC 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 soray using suitable application equipment such as hanc 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.

Waste Water (High in Organic Content) - Use DURSBAN 2EC insecticide for control of mosquito larvae in agricultural, industrial, and urban waste waters that contain high levels of organic matter, including sewage drains, ponds and lagoons: industrial waste water impoundments; cesspools and septic tanks; catch basins. Consult the following table for dosage and application details.

DOSAGE for MOSQUITOES in WASTE WATER

Area to be Treated	Decage of DURSBAN 2EC	Use Directions
Sewage drains Weste disposal ponds and lagoons Industrial waste water impoundments	2 ft. oz. per 5000 cu. ft. of water or 8.7 ft. oz. per acre foot of water*	Pour the required amount of undiluted DURSBAN 2EC into the inflowing water or apply to the water surface as a course, low pressure spray. Treat stagnant waters by diluting DURSBAN 2EC with sufficient water or oil to obtain uniform distribution.
Cesspecia Septic Tanks	2 fl. az. per 1000 cu. ft. of water	Apply directly or flush the required amount down a taile.
Catch basins	0.08 ft. oz. per catch besin	Divite 4 ft. oz. of DURSBAN 2EC with 3 gallens of water to make 0.25% chiorpynfas spray and apply ½ pint of the maxiere per catch beain as a coarse, low pressure sirray. Uniformity cover the expected wells (sides) of the basin and the water surface

* Equivalent to 0 1 part per million of chlorpyrifes in the total volume of water treated

CONDITIONS and RATES to USE for MOSQUITO CONTROL

	Amount To Use Par Acre			
Condition of Area to be Treated	DURSBAN 2EC (Ruid ounces)	Chlorpyriles (pounds)	Number Acres 1 Gallen of DURSBAN 260 Will Treat	
Larval Control None to medium vegetative cover	Q.E to 1.6	8.0125 to 9.025	160 to 90	
Medium to heavy vegetative cover	1.6 to 3.27	0.025 to 0.05†	80 to 40	
Adult Control Light to medium vegetative cover	1.5	8.625	80	
Medium to heavy vegetative correr	3.2+	0.05†	40	

* The higher dosage will also give faster knockdown and longer residual control where there is little or ne vegetative cover.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container in secured, dry storage area. Do not store above 120° F. Do not stack higher than 2 pallets. If spill occurs, use immediately or dispose of as indicated below.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: METAL DRUM Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER DISPOSAL: PLASTIC Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the labe! when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IPLIED WARRANTY OF MERCHANTABILITY OR FIT-NESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, 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 (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfail, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:



(1) Refund of purchase price paid by buyer or user for product bought, or

(2) Replacement of amount of product used.

The seller will not be Nable for consequential or incidental damages or fosses.

The terms of this Limit of Warranty and Liability cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

DIAMOND: FLAMMABLE LIQUID (WITH NUMBER)

RQ INSECTICIDE LIQUID N.O.S. (Chlorpyrifos) NA1993 F.P. = 73-100° F

* Trademark of THE DOW CHEMICAL CCMPANY 26005-L3 1284



. •

,

. • . . .

.

SPECIMEN LABEL 86-1797 DATE CODE 1284 REPLACES 86-1797 DATE COLE 583

DISCARD PREVIOUS SPECIMEN LABELS

REVISIONS INCLUDE: 1) REVISED AS PER 83-3 2) NOTE TO PHYSICIAN 3) WARRANTY

4) FORMULATION CHANGE

· _____

627

.

Product Name: DURSBAN 2EC Insecticide EPA Reg. No.: 464-343

• • •

.

INSERT A

Active Ingredient: Chlorpyrifos (0,0-Diethyl 0-(3,5,6-trichloro-2-pyridyl)	<u></u>
phosphorothioate]	22.47
Inert Ingredients:	77.6%

And The start of t