

ACCEPTED
FEB 05 1979
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 this pesticide is registered under
 EPA Reg. No. 6720-59

NET CONTENTS

SMP **DURSBAN* 2E**
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 Organization, Mosquito Abatement Districts and Other Trained Personnel Responsible for Insect Control Programs

ACTIVE INGREDIENTS:	
Chlorpyrifos (O, O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate).....	23.5%
Aromatic petroleum derivative solvent.....	14.9%
Xylene.....	54.9%
INERT INGREDIENTS:	6.7%
TOTAL	100.0%

Contains 2 pounds of chlorpyrifos per gallon

E.P.A. Registration No. 6720-59 E.P.A. Est. No. 6720-FL-1

WARNING:
KEEP OUT OF REACH OF CHILDREN
 SEE SIDE PANEL FOR OTHER CAUTIONS

U.S. Patent No. 3,214,586
 *DURSBAN - Trademark of the DGW-CHEMICAL COMPANY

MANUFACTURED BY
Southern Mill Creek
PRODUCTS COMPANY, INC.
 TAMPA, FLORIDA 33601

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USE DIRECTIONS

PESTS INDOORS: General Information: Use DURSBAN 2E 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 spray, dilute DURSBAN 2E with water or with a suitable base oil as shown in the following SPRAY DILUTION CHART. Repeat treatment as needed. Use only deodorized kerosene for oil-based sprays to be applied in food handling establishments.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces of DURSBAN 2E to Use*	
	0.25% spray	0.50% spray
Water-base spray:		
1	1-1/3	2-2/3
3	4	8
5	6-2/3	13-1/3
10	13-1/3	26-2/3
Oil-base spray**:		
1	1	2
3	3	6
5	5	10
10	10	21

* Note: 1 fluid ounce - 2 tablespoons - 6 teaspoons
 ** Calculated on basis of deodorized kerosene

Note: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN 2E 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. DO NOT use Dursban 2E in combination with dichlorvos (DDVP) or pyrethrins for treatment of food areas or food handling establishments.

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: Mix Dursban 2E according to the Spray Dilution chart. Use as a SPOT TREATMENT to control cockroaches (including strains resistant to certain other insecticides), ants, crickets, firebrats, silverfish and spiders in and around both food and nonfood areas by application 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 contacting surfaces. Areas treated may include dark corners of rooms, and closets; along and behind baseboards, beneath and behind stoves, refrigeration units and similar food preparation areas and equipment; floor drains and around plumbing and other utility installations. For ants apply to ant trails and wherever these pests may find entrance. Spot-treatment may encompass CRACK & 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.

APPLICATIONS OF THIS PRODUCT IN FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A SPOT AND/OR CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

Caution: Use oil base spray only for conduits, motor housings, junction or switch-boxes. 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 water-base spray in these places.

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 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 or 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 the Control of Carpet Beetles, thoroughly apply a 0.5% spray as a spot treatment along baseboards and edges of carpeting, under carpeting, rugs, furniture, in closets and on shelving, and wherever else these insects are seen or suspected.

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.

Warning (Pests Indoors): For Spot Application Only. Do not use in poultry houses or other animal buildings. Do not use in serving areas while food is exposed. 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 2E for the control of certain pests of 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 of Lawns and other Ornamental and Recreational Turf Grass Areas: Use DURSBAN 2E to control the pests listed on the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 2E 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 the time of treatment.

DOSAGE and DILUTIONS for USE on TURF		
Pest	Dosage DURSBAN 2E per 1000 sq. ft.	Remarks
Ants Armyworms Brown Dog Ticks Chiggers Chinch Bugs Clover Mites Crickets Cutworms Earwigs Fleas Grasshoppers Sod Webworms	1 1/2" fl. oz.	Spray when pests first appear; retreat when needed. For sod webworms, delay watering or mowing the treated areas for 12 to 24 hours after treatment.
Turfgrass (Hyperodes) weevils	3 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 chafer and Japanese beetle larvae only)	3-6 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.

* 1 1/2 fl. oz. per 1000 sq. ft. - 7 1/2 fl. oz. per 5000 sq. ft. - 1 pint per 10,700 sq. ft. - 2 quarts per acre.

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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, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 5 fluid ounces of DURSBAN 2E per 100 gallons of water and apply as a coarse spray to thoroughly and uniformly wet the band area.

Pests of Ornamentals: Use DURSBAN 2E to treat flowers, shrubs, vines, shade and flowering trees, and evergreen found to be infested with the pests listed in the following table. Dilute DURSBAN 2E with water according to the 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.

DOSAGE and DILUTIONS for USE on ORNAMENTAL PLANTS			
Pests Controlled	Amount of DURSBAN 2E in Water to Make		
	3 gallons	10 gallons	100 gallons
Aphids Bagworms Eastern Tent Caterpillar Fall Webworm Grasshoppers Mites Orangestriped Oakworm Spittlebugs Whiteflies Yellownecked Caterpillars	0.5 fl. oz.	1.6 fl. oz.	1 pint*
Cutworms Leafhoppers Mealybugs Thrips (exposed) Mimosa Webworm Redhumped Caterpillars	1.0 fl. oz.	3.2 fl. oz.	1 quart**
Ash Borer Lilac Borer Scale Crawlers: Oak Lecanium Pine Needle Tea White Peach	2.0 fl. oz.	6.4 fl. oz.	2 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.			

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.

Warning (Lawn and Ornamental Plant Pests): Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishponds and other bodies of water. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Area Control of Ticks and Chiggers: Use DURSBAN 2E to control ticks and chiggers infesting non-crop land 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 2E in water at the rate of 1 pint per acre (equivalent to 1 fluid ounce 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.

Warning (Area Control of Ticks and Chiggers): Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.

Mosquitoes: Apply DURSBAN 2E to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix DURSBAN 2E 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 spray using suitable application equipment such as hand and power ground sprayers, mist applicators, and aerial spray equipment.

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 2E Will Treat
	DURSBAN 2E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control None to medium vegetable cover	0.8 to 1.6	0.0125 to 0.025	190 to 80
Medium to heavy vegetable cover	1.6 to 3.2*	0.025 to 0.05*	80 to 40
Adult Control Light to medium vegetable cover	1.6	0.025	80
Medium to heavy vegetable cover	3.2*	0.05*	40

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

Warning (Mosquito Control): DURSBAN 2E is toxic to shrimp, crabs and fish. Do not apply to water containing crustaceans and fish. Consult your State Fish and Game Department before using this product for mosquito control.

WARNING

KEEP OUT OF REACH OF CHILDREN
MAY BE FATAL IF SWALLOWED. MAY BE ABSORBED THROUGH SKIN. MAY BE INJURIOUS TO EYES AND SKIN. COMBUSTIBLE

Do not take internally. Do not get in eyes or on skin. Wash thoroughly after handling. Wash contaminated clothing before re-use. 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 children and pets off treated areas until this material is washed into the soil and grass is dry. Keep container closed. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Handle concentrate in a ventilated area.

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

GENERAL USE PRECAUTIONS

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.

PROTECT WILDLIFE: This product is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

Do not reuse container. Destroy when empty. Promptly crush empty containers and bury them and wastes in locations away from domestic water supplies.

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, express 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.

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