

DURSBAN* 4E
INSECTICIDE

CONTROLS NUMEROUS PESTS, AS LISTED, 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.

ACTIVE INGREDIENTS:

Chlorpyrifos (O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) (phosphorothioate)	44.4%
INERT INGREDIENTS:	55.6%
TOTAL	100.0%

THIS PRODUCT CONTAINS THE TOXIC INGREDIENT METHYLENE CHLORIDE

Contains 4 pounds of chlorpyrifos per gallon U.S. Patent No. 3,244,586
*DURSBAN - Reg. Trademark Dow Chemical Co.

KEEP OUT OF REACH OF CHILDREN

WARNING

SEE DIRECTIONS FOR USE AND CAUTIONS ON SIDE PANELS.

E.P.A. Registration No. 6720-206

E.P.A. Est. No. 6/20-FI-1

6720-206
6720-206

MANUFACTURED BY
SOUTHERN HILL CREEK
PRODUCTS COMPANY, INC.
TAMPA, FLORIDA 33601

DIRECTIONS FOR USE

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

PEST INDOORS: General Information: Use DURSBAN 4E insecticide to control the
pests indicated in the areas listed below by applications 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 4E with water or with a suitable base oil as shown
in the following chart. Repeat treatment as necessary. Use only deodorized
kerosene for oil based sprays to be applied in food handling establishments.

DILUTION RATES

Gallons of Spray Mixture Desired	*Dursban 4E to use	
	0.25%	0.50%
Water-based:		
1	2/3	1-1/3
3	2	4
5	3-1/3	6-2/3
10	6-2/3	13-1/3
Oil-base**:		
1	1/2	1
3	1-1/2	3
5	2-1/2	5
10	5	10-1/2

* NOTE: 1 fluid ounce = 2 TBS. = 6 tsp.

**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 4E insecticide. For best results, use dichlorvos at a concentration of 0.25% in both water and 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 4E in combination with dichlorvos (DDVP) or pyrethrins for treatment of food areas of food handling establishments.

APPLICATION WITHIN FOOD HANDLING ESTABLISHMENTS (PLACES OTHER THAN PRIVATE RESIDENCES IN WHICH FOOD IS HELD, PROCESSED, PREPARED OR SERVED) INCLUDING, BUT NOT LIMITED TO, RESTAURANTS, GROCERY STORES, BAKERIES, BOTTLING PLANTS, CANNERIES, AND GRAIN MILLS: Mix Dursban 4E according to the Spray Dilution chart. Use as a SPOT TREATMENT to control cockroaches (including strains resistant to 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. In case of emergency (call back), Dursban 4E may be applied after 2 days from the last treatment but emergency use should be limited to once per month. APPLICATIONS OF THIS PRODUCT IN FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A SPOT AND/OR CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

APPLICATION WITHIN RESIDENTIAL BUILDINGS Including Homes and Apartment Buildings and Within Nonfood Areas of Industrial, Institutional, and Commercial Buildings Including Hospitals, Stores, Manufacturing Plants and Warehouses: For Spot Treatment Only: Apply as a coarse spray or with a paint brush to localized area 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 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 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.

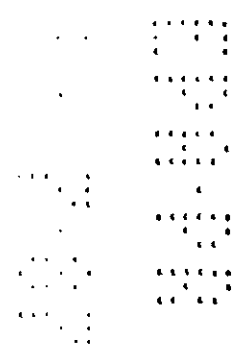
WARNING (Pests Indoors): Use oil base spray only for conduits, motor housing, junction or switch boxes. Prior to application deenergize electrical equipment. After application, allow time for oil to evaporate before starting motors or placing switch in the "ON" position. DO NOT use water-base sprays in these places. Do not use in poultry houses and 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 4E 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 4E to control the pests listed on the following table by application at the recommended dosage and in accordance with the directions given below. Dilute Dursban 4E 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.

Insects	Dosage DURSBAN 4E Per 1000 sq. ft.	Remarks
Ants, Armyworms, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod webworms	3/4* 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 treat- ment.
Turfgrass (Hyperodes) Weevils	1 1/2 fl. oz.	Spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Ag- ricultural Exten- sion Service Specialist for your area.
White Grubs, (European Chafer and Japanese Beetle Larvae only)	1 1/2-3 fl. oz.	For White Grubs spray when grubs are young and actively feeding near the soil sur- face, usually during late July and August or as recommended by your local Agri- cultural Extension Service specialist for your area. Immediately after spraying, irri- gate the treated area with 1/2 to 1 inch of water to wash the insecti- cide into the underlying soil.

*3/4 fl. oz. per 1,000 square feet = 3 1/4 fl. oz per
5,000 square feet = 1/2 pint per 10,700 square feet =
1 quart per acre.



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 4E per 100 gallons of water and apply as a coarse spray to thoroughly and uniformly wet the band area.

PESTS OF ORNAMENTALS: Use Dursban 4E to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in the following table. Dilute Dursban 4E 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, cameleas, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

DOSAGES and DIRECTIONS for USE on ORNAMENTAL PLANTS
Amount of DURSBAN 4E
in water to Make

Pests	3 gal.	10 gal.	100 gal.
Controlled			
Aphids, Bagworms, Easter Tent Caterpillar, Fall Webworm, Grass-hoppers, Mites, Orange Striped Oakworm, Spittlebugs, Whiteflies, Yellownecked Caterpillars	0.25 fl. oz.	0.8 fl. oz.	0.5 pt*
Cutworms, Leaf-Hoppers, Mealybugs, Thrips (exposed), Mimosa Webworm, Redbumped Caterpillars	0.5 fl. oz.	16 fl. oz.	1 pt.**
Ash Borer, Lilac Borer, Scale Crawlers, Oak Lecanium, Pine Needle, Tea, White Peach	1.0 fl. oz.	32 fl. oz.	1 qt.***

- * 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.

ATTENTION (LAWN & 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.

AREA CONTROL OF TICKS AND CHIGGERS: Use Dursban 4E 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 4E in water at the rate of $\frac{1}{2}$ pint per acre (equivalent to 1 fluid ounce per 1,700 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.

MOSQUITO CONTROL: Apply Dursban 4E to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix Dursban 4E 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 4E Will Treat
	DURSBAN 4E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control None to Medium Vegetative Cover	0.4 to 0.8	0.0125 to 0.025	320 to 160
Medium to Heavy Vegetative Cover	0.8 to 1.6*	0.025 to 0.05*	160 to 80
Adult Control Light to Medium Vegetative Cover	0.8	0.025	160
Medium to Heavy Vegetative Cover	1.6*	0.05*	80

*The higher dosage will also give faster knockdown and longer residual control where there is little or no vegetative cover. Under such conditions this dosage should be used only where there are no fish or crustaceans or where loss of fish, crustaceans or lower components of the food chain would not be significant.

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

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

May be fatal if swallowed. May be fatal if absorbed through skin or clothing. Avoid breathing of vapors. Wash thoroughly after handling. Do not wear contaminated clothing. Keep away from food, feedstuffs and water supplies.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish, birds, and other wildlife. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of waste.

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

STORAGE AND DISPOSAL

Storage - Avoid storage at high temperatures. Protect from moisture. Avoid contamination with water, acids or alkalis. Do not store near heat or open flame. Keep container closed. Store in original containers only. Separate pesticides to avoid cross-contamination of other pesticides, fertilizer, food and feed. Keep container in locked storage areas.

If spilled, absorb with dry material such as sand or sawdust and sweep up for disposal.

Pesticide Disposal - Do not contaminate water, food or feed by storage and disposal. Pesticide wastes are toxic. Improper disposal of excess of 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 - a). Metal - Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill or by other approved State and Local procedures. b). Plastic - Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill or by incineration if permitted by State and Local authorities.