

# 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.**

**USE AS A MOUND TREATMENT TO KILL IMPORTED FIRE ANTS SEE SUPPLEMENTAL LABELING FOR ADDITIONAL USES**

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 INGREDIENT:**

Chlorpyrifos (0,0-diethyl(0-(3,5,6-trichloro-2-pyridyl)phosphorothioate))	44.4%
<b>INERT INGREDIENTS:</b>	55.6%
<b>Total</b>	<b>100.0%</b>

Contains 4 pounds Chlorpyrifos per gallon. DURSBAN 4E Trademark Dow Chemical Company

## KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**STATEMENTS OF PRACTICAL TREATMENT**  
**THIS PRODUCT IS AN ORGANOPHOSPHATE INSECTICIDE. IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious or convulsing person. Get medical attention. **IF INHALED:** Remove victim to fresh air. Get medical attention. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists. **IF ON SKIN:** In case of contact wash affected area with soap and water. **NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine, only by injection is the preferable antidote.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** May be fatal if swallowed. Excessive absorption through skin may be fatal. Do not get in eyes, skin or clothing. Avoid breathing of vapors and spray mist. Keep away from food, feedstuffs and water supplies.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category (G) on an EPA chemical resistance category selection chart. **Applicators and other handlers** must wear: coveralls over short-sleeved shirt and short pants; Chemical resistant gloves such as barrier laminates or Viton; Chemical resistant footwear plus socks; Protective eyewear. Chemical resistant headgear for overhead exposure; Chemical resistant apron when cleaning equipment, mixing and loading. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**  
**Users should:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply or allow to drift to blooming crops or weeds if bees are visiting the treatment area.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame

#### 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 container 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. **Disposal:** Do not contaminate water, food or feed by storage and 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or purchase and dispose of in a secondary landfill or by other procedures approved by State and Local authorities. **Triple Rinse (or equivalent):** Then offer for recycling or reconditioning, or purchase and dispose of in a secondary landfill or by incineration, or if allowed by State and Local authorities, by burning. If burned stay put of smoke.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system. EPA Reg. No. 789-602

NET CONTENTS 1 GALLON EPA Est. No. 789-GA-1  
**SureCo, Inc. Fort Valley, GA 31030 U.S.A.**

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the Worker Protection Standard, for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep children and pets off treated areas until sprays have dried.

#### PESTS 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 DILUTION RATES paragraph. Repeat treatment as necessary. Use only deodorized kerosene for oil based sprays to be applied in food handling establishments.

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 doors, refrigeration units and similar food preparation areas and equipment, floor drains and around plumbing and other utility installations. For gaps apply to exit 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 hollowspaces 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 (fall back), Durban 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, Schools, Manufacturing Plants and Warehouses: For Spot Treatment Only: Apply as a coarse spray or with a paint brush to localized areas where **Ants, Cockroaches, Closet moths, Confused Flour Beetles, Crickets, Earwigs, Firebrats, German Cockroaches, Mediterranean Flour Moth, Red & Granary Weevils, Millipedes, Red Fire Beetles, Saw Toothed Grain Beetles, 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 gaps apply to exit trails, along and behind doors and windows and wherever else these pests may find entrance. For **Closet moths** use 0.5% spray only. Near a period of 4 to 7 days is normally required for maximum effect on cockroaches. For the Control of **Carpenter Beetles**, thoroughly apply 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.

#### DILUTION RATES

To make a 0.25% spray solution  
**FOR WATER SPRAY - mix 25 oz. in 1 gallon of WATER**  
**FOR AN OIL SPRAY - mix 1/2 fl. oz. in 1 gallon of DEO-BASE OIL**  
 To make a 0.5% spray solution  
**FOR WATER SPRAY - mix 1 1/2 oz. in 1 gallon of WATER**  
**FOR AN OIL SPRAY - mix 1 fl. oz. in 1 gallon of DEO-BASE OIL**

For larger amounts multiply the fluid ounces (amount) in 1 gallon by number of gallons required for the "job". \*Deodorized base Kerosene.  
**Note:** Where quick knockdown and/or flushing action is desired, dichlorvos (DDVP) or pyrethrin may be added to the spray mixture containing Durban 4E insecticide. For best results, use dichlorvos at a concentration of 0.25% in both water and oil-based sprays. Consult labeling for the dichlorvos or pyrethrin 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 Durban 4E in combination with Dichlorvos (DDVP) or pyrethrin 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 Durban 4E according to the DILUTION RATES. Use as a SPOT TREATMENT to control **Ants, Cockroaches, Crickets, Confused Flour Beetles, Crickets, Earwigs, Firebrats, German Cockroaches, Mediterranean Flour Moth, Red & Granary Weevils, Millipedes, Red Fire Beetles, Saw Toothed Grain Beetles, Silverfish, etc.** in and around both food and nonfood areas by application as a coarse, low pressure (20 psi or less) spray in localized areas where the above pests have been seen, suspected of being or causing. Apply only enough spray to thoroughly cover the surfaces treated using special care to avoid unnecessary runoff.

**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.

**NOTE: (Pests Indoors):** Use oil based spray only on adults, water housing, junction or switch boxes. Prior to application de-energize electrical equipment. After application, allow time for oil to evaporate before starting motors or placing switch in the "ON" position. DO NOT use water-based sprays in these places. Do not use in poultry houses and other animal buildings. Do not use in serving areas while food is exposed. 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 (aerata) before spraying.

#### PESTS OUT-OF-DOORS

**General Information:** Use Durban 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 Durban 4E to control the pests listed on the following table by application of the recommended dosage and in accordance with the directions given below. Dilute Durban 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. For soil insects thoroughly water after treatment to wash the insecticide into the turf, except as noted. It is not necessary to water in the insecticide for control of surface insects. For best results, the lawn should be moist at the time of treatment. Spray when pests first appear. Repeat as needed.

#### SURFACE INSECTS

Use 3M fl. oz./1,000 sq. ft. for control of **Ants, Armyworms, Brown Dog Ticks, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fire Ants (mounds), Fleas, Gnats, Groundsquirrels, Greenbugs, June Beetles, Leafhoppers, Lucerne Moths, Millipedes, Mites (claw, formica, winter, cran), Sod webworms, Spiders, Springtails and Ticks.** Watering-in of the insecticide is not required for control of surface insects. For Sod Webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment.

#### SOIL INSECTS

For **Turfgrass Hornworms, Weevils** use 1 1/2 fl. oz./1,000 sq. ft. Spray suspected problem areas in mid April and again in mid May or as recommended by your local Ag. Extension Service Specialist for your area. For **European Crane Fly Larvae** use 1 fl. oz./1,000 sq. ft.

For **White Grubs (Black Larvae, Japanese Beetles, European Crane, Southern meadow spider & Japanese beetle larvae)** use 1 1/2 to 3 fl. oz./1,000 sq. ft. Spray when grubs are young and actively feeding near the soil surface, usually during late July and August or as recommended by local Ag Extension personnel. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.

For **Flower Weevils** use 3M to 3R fl. oz./1,000 sq. ft. Spray early in season when adults first appear. Repeat as needed.

#### PREMISE TREATMENT FOR CRAWLING INSECTS

To help prevent infestation of buildings by **ants, crickets, earwigs, millipedes and ground moths (millars)**, 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 Durban 4E per 100 gallons of water and apply as a coarse spray to thoroughly and uniformly wet the band area.

#### AREA CONTROL OF TICKS AND CHIGGERS

Use Durban 4E to control ticks and chiggers infesting non-crop land areas such as roadsides, footpaths and trails, picnic and camping sites, parks recreational areas and around dwellings where these pests are present, create a residue or are acting as a disease vector. Apply at the rate of 1/2 pint per acre (equivalent to 1/2 fluid ounce per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, backpack 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. **NOTICE:** Do not allow 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.

#### PESTS OF ORNAMENTAL PLANTS

Use Durban 4E to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed below. Dilute Durban 4E with water according to the directions below 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 misted into 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. **ATTENTION:** Keep out of lawn and garden sprinkler and other bodies of water. Do not use on azaleas, carnations, poinsettias, roses or variegated plants because of possible injury.

Use 0.25 fl. oz./1,000 sq. ft. for control of **Ants, Armyworms, Brown Dog Ticks, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fire Ants (mounds), Fleas, Gnats, Groundsquirrels, Greenbugs, June Beetles, Leafhoppers, Lucerne Moths, Millipedes, Mites (claw, formica, winter, cran), Sod webworms, Spiders, Springtails and Ticks.**

Use 0.5 fl. oz./1,000 sq. ft. for control of **Ants, Armyworms, Brown Dog Ticks, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fire Ants (mounds), Fleas, Gnats, Groundsquirrels, Greenbugs, June Beetles, Leafhoppers, Lucerne Moths, Millipedes, Mites (claw, formica, winter, cran), Sod webworms, Spiders, Springtails and Ticks.**

Use 1.0 fl. oz./2,000 sq. ft. for control of **Ants, Armyworms, Brown Dog Ticks, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fire Ants (mounds), Fleas, Gnats, Groundsquirrels, Greenbugs, June Beetles, Leafhoppers, Lucerne Moths, Millipedes, Mites (claw, formica, winter, cran), Sod webworms, Spiders, Springtails and Ticks.**

For larger amounts, 1 gallon required for 100 sq. ft. of turf and ornamental treatment, depending on pest.

Mix 1 fl. oz. in 4 gal. of water and apply to the lawn surrounding area of 3 degrees F. early or in sprays way disturb a lawn.

Apply Durban 4E to lawn and areas shown in the table above or No. 21 of areas treated. Apply and power ground a higher dosage will be there as little or no we used only where there or lower components **NOTICE:** Read comp Fish & Game Dept

For areas of no water to 0.8 fl. oz. of Durban 4E will be for areas of heavy to 0.025 to 0.05 lb. A.T.C. acres of area.

For areas of no water to 0.8 fl. oz. Durban 4E 100 Acres of area For areas of heavy to 0.025 to 0.05 lb. A.T.C. (p)

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See SUP USES (Out) (700-6000)

Use Durban 4E to control ticks and chiggers infesting non-crop land areas such as roadsides, footpaths and trails, picnic and camping sites, parks recreational areas and around dwellings where these pests are present, create a residue or are acting as a disease vector. Apply at the rate of 1/2 pint per acre (equivalent to 1/2 fluid ounce per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, backpack 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. **NOTICE:** Do not allow 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.

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**BEST COPY AVAILABLE**

