

JUN 25 1993

Mr. Daniel Paradiso, Jr.
The Andersons
d/b/a Parker Fertilizer Company
201 West Fourth Street
Sylacauga, Alabama 35150

Subject: Revised Labeling
Vertagreen Dursban-4E Insecticide
EPA Registration Number 8660-97
Your Application Dated February 19, 1993
(Received by EPA April 14, 1993)

Dear Mr. Paradiso:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, is acceptable provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. Add a footnote to the ingredients statement:

Contains aromatic petroleum distillate

2. The HAZARDS TO HUMANS AND DOMESTIC ANIMALS section must read:

WARNING

Keep children and pets off treated areas until spray has dried. May be fatal if swallowed. May be absorbed through skin. May be injurious to eyes and skin. Combustible liquid. Do not take internally. Do not get in eyes or on skin. Do not smoke while using. Wash thoroughly after handling. Wash contaminated clothing before re-use. Flush contaminated eyes with plenty of water and get medical attention. Avoid breathing spray mist or vapors. Do not spray vegetable gardens or plants used for food purposes.

(Note that this is the text on the labeling submitted with your application dated July 24, 1992.)

3. The ENVIRONMENTAL HAZARDS section must read:

This pesticide is toxic to birds, fish, and aquatic invertebrates. Birds feeding in treated areas may be killed. Clean up spilled product to reduce exposure to wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

8660-97
1 of 7

(FRONT PANEL)

ACCEPTED
with COMMENTS
in EPA Letter Dated

VERTAGREEN®

DURSBAN™-4E

INSECTICIDE

JUN 25 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
8660-97

To Be Applied Only By or Under the Supervision of Pest Control Operators, Public Health Organizations, and Other Trained Personnel Responsible For Insect Control Programs.

OUTDOOR PEST CONTROL

Chinch Bugs, Sod Webworms (Lawn Moth), Bagworms, Cutworms, Grasshoppers, White Grubs, Ticks and Chiggers

INDOOR PEST CONTROL

Crickets, Ants, Cockroaches, Silverfish, Spiders and Clover Mites

ACTIVE INGREDIENT:

Chlorpyrifos [0,0-Diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] 44.40%

INERT INGREDIENTS 55.60%

TOTAL 100.00%

Contains 4 lbs. Chlorpyrifos per gallon.
Dursban™ - Registered Trademark of DowElanco; U.S. Patent No. 3,244,586

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

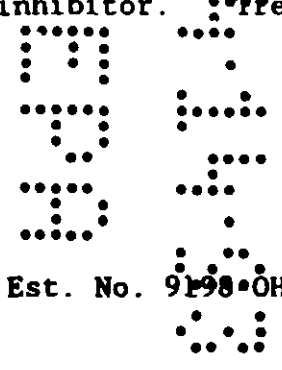
IF SWALLOWED: Do not induce vomiting. Call a physician immediately.
IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated.
IF ON SKIN: Remove contaminated clothing and immediately wash skin with soap and water.
IF IN EYES: Flush eyes with plenty of water for 15 minutes. Call a physician.
NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

NET CONTENTS 1 GALLON

EPA Reg. No. 8660-97

EPA Est. No. 9198-OH-1



(BACK PANEL)

NET CONTENTS 1 GALLON

VERTAGREEN®

DURSBAN™-4E

INSECTICIDE

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

This pesticide is toxic to birds, fish, and aquatic invertebrates. Birds feeding in treated areas may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and wildlife. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

PHYSICAL AND CHEMICAL HAZARDS

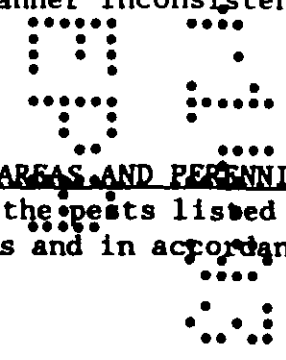
Keep container closed. KEEP AWAY FROM OPEN FLAME. Handle concentrate in a ventilated area.

DIRECTIONS FOR USE

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

OUTDOOR PESTS

PESTS OF LAWNS, OTHER ORNAMENTAL AND RECREATIONAL TURFGRASS AREAS, AND PERENNIAL TURF GRASSES GROWN ONLY FOR SEED: Use Dursban-4E to control the pests listed in the following table by application at the recommended dosages 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 time of treatment.

ANTS, ARMYWORMS, BROWN DOG TICKS, CHIGGERS, CHINCH BUGS, CLOVER MITES, CRICKETS, CUTWORMS, EARWIGS, FLEAS, GRASSHOPPERS, SOD WEBWORMS: Use 3/4 to 1 fl. oz. per 1,000 sq. ft. Spray when pests first appear; retreat when needed.

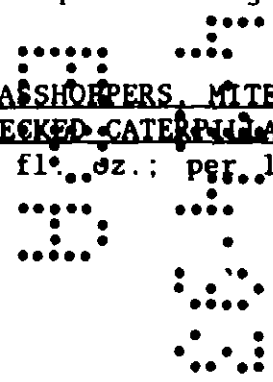
SOD WEBWORMS: Delay watering or mowing the treated area for 12 to 24 hours after treatment. Use 2-3 gals. water per 1,000 sq. ft.

WHITE GRUBS (European Chafer and Japanese Beetle Larvae Only): Use 1-1/2 to 3 fl. oz. per 1,000 sq. ft. 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 in the underlying soil.
1-3/4 fl. oz. per 1,000 sq. ft. = 3-3/4 fl. oz. per 5,000 sq. ft. = 1/2 pint per 10,700 sq. ft. = 1 quart per acre.

AREA CONTROL OF TICK AND CHIGGERS: Use Dursban-4E 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-4E in water at the rate of 1/2 pint per acre (equivalent to 1/2 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 gals. per acre. ATTENTION: Do not allow public use of treated areas during application or until spray has dried.

ORNAMENTAL PLANTS: Use Dursban-4E insecticide to control Bagworms, Cutworms Grasshoppers, Leafhoppers, Mealybugs, Mites, Spittlebugs, Thrips (exposed), and Whiteflies on flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with these pests. Dilute Dursban-4E with water according to following directions and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage of infested plants. 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.

APHIDS, BAGWORMS, EASTERN TENT CATERPILLAR, FALL WEBWORM, GRASSHOPPERS, MITES, ORANGESTRIPED OAKWORM, SPITTLEBUGS, WHITE FLIES, AND YELLOWNECKED CATERPILLAR: Per 3 gallons, use 0.25 fl. oz.; per 10 gallons, use 0.8 fl. oz.; per 100 gallons, use 0.5 pint.



CUTWORMS, LEAFHOPPERS, MEALYBUGS, MIMOSA WEBWORM, REDHUMPED CATERPILLAR, AND THRIPS (EXPOSED): Per 3 gallons, use 0.5 fl. oz.; per 10 gallons, use 1.6 fl. oz.; per 100 gallons, use 1 pint.

ASH BORER, LILAC BORER AND SCALE CRAWLERS (OAK LEGANIUM, PINE NEEDLE, TEA, WHITE PEACH): Per 3 gallons, use 1.0 fl. oz.; per 10 gallons, use 3.2 fl. oz.; per 100 gallons, use 1 quart.

PESTS INDOORS

GENERAL INFORMATION: Use to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chlorpyrifos (Dursban-4E) 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 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.

SPRAY DILUTION CHART

GALLONS OF SPRAY MIXTURE DESIRED	FLUID OUNCES OF DURSBAN-4E TO USE	
	<u>0.25% SPRAY</u>	<u>0.5% SPRAY</u>
<u>WATER-BASE SPRAY:</u>		
1	1/3	1-1/3
3	2	4
5	3-1/3	6-2/3
10	6-2/3	13-1/3
<u>OIL-BASE SPRAY: #</u>		
1	1/2	1
3	1-1/2	3
5	2-1/2	5
10	5	10-1/2

NOTE: 1 fl. oz. = 2 tablespoonfuls = 6 teaspoonfuls
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. 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 in combination with dichlorvos (DDVP) or pyrethrins for treatment of food areas of food handling establishments.



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CRACK AND CREVICE TREATMENT

FOOD HANDLING ESTABLISHMENTS (Place Other Than Private Residence in Which Food is Held, Processed, Prepared, or Served) Including, But Not Limited To, Restaurants, Grocery Stores, Bakeries, Bottling Plants, Canneries and Grain Mills).

FOOD AREAS - APPLICATION LIMITED TO CRACK AND CREVICE TREATMENT ONLY: Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing) preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), serving areas (when food is exposed and facility is in operation also would be considered a food area).

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

Refer to above chart for dilution rates. Apply in small amounts directly into cracks and crevices using sprayer capable of delivering a pin stream of insecticide in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases, conduits, motor housings, junctions or switch boxes. Do not use water dilution sprays in conduits, motor housings and electrical switch boxes. Prior to oil dilution application, de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the on position where the following insects may hide: Cockroaches, Ants, Crickets, Firebrats, Silverfish, and Spiders. Care should be taken to avoid depositing onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces.

ANTS: Apply to Ant trails and where they may find entrance. 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. Dursban-4E may be applied after 2 days from last treatment but emergency use should be limited to once per month.

APPLICATION WITHIN RESIDENTIAL BUILDINGS (Including Homes and Apartment Buildings and Within Nonfood Areas of Industrial, Institution, and Commercial Building 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 of rooms and closets, cracks and crevices in walls, along and behind baseboards, beneath 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 5 to 7 days is normally required for maximum effect on cockroaches.

FOR CONTROL OF CARPET BEETLES: Thoroughly apply a 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.

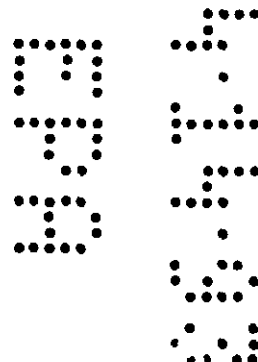
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FOR CONTROL OF BROWN DOG TICKS: Thoroughly apply a 0.5% spray as a spot treatment of infested areas such as pet beds and resting quarters, nearby cracks and crevices, along and behind baseboards, window and door frames and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment of pet areas. **DO NOT TREAT PETS WITH THIS PRODUCT.** Treat pets additionally with a product registered for animal application.

ATTENTION (Pests Indoors): Do not apply water-base 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 or other animal buildings. Do not allow spray to contact food, feedstuffs, and water suppliers. 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Keep container closed and away from food, feedstuffs and domestic water supplies. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance. **CONTAINER DISPOSAL:** Do not reuse container. Rinse thoroughly before discarding in trash.



WARRANTY STATEMENT

MANUFACTURER warrants that this product (1) conforms to the ingredient statement on the label and (2) is reasonably fit for the purposes set forth in the Directions for Use. **EXCEPT AS SO WARRANTED, THE PRODUCT IS SOLD AS IS. MANUFACTURER MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED.**

The manufacturer's directions regarding use of this product are based upon tests believed to be reliable. All statements made concerning this product apply only when used as directed, under normal use conditions. **FOLLOW DIRECTIONS CAREFULLY.** Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the manufacturer. Buyer assumes all risks of use, storage or handling of this product.

Manufactured by:

**PARKER FERTILIZER CO.
201 4TH STREET
SYLACAUGA, AL 35150**

Date Printed: 01/28/93
Date Approved:
Supersedes:
Label Change:

