

ACCEPTED
STATEMENTS
DATE: 5/30/84

MAY 30 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this product is
registered under EPA Reg. No.

9782-59



DURSBAN 2 PLUS
INSECTICIDE

BEST DOCUMENT AVAILABLE

FOR CONTROL OF NUMEROUS PESTS IN AND AROUND THE HOUSEHOLD,
FOR ORNAMENTAL PLANTS, LAWNS AND ORNAMENTAL TURFGRASS

FOR IMPORTED FIRE ANT CONTROL

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

ACTIVE INGREDIENTS:

Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	24.60%
Pyrethrins	2.20%
*Piperonyl Butoxide, Technical	11.00%

INERT INGREDIENTS:

52.20%
TOTAL 100.00%

*Equivalent to 8.8% (butylcarbityl)(o-propylpiperonyl) ether & 2.2% Related
compounds.

KEEP OUT OF REACH OF CHILDREN
WARNING

12 pt typ
18 pt typ

See Side Panel For Additional Precautionary Statements

E.P.A. Reg. No. 9782-59

E.P.A. Est. No 9782-PL-1

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. Atropine only by injection is an antidote.

Net Contents Gallons

Woodbury Chemical Company
P. O. Box 4319
Princeton, Florida 32032

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

USE DIRECTIONS

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

PESTS INDOORS

General Information: Use DURSBAN 2 PLUS 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 the spray, dilute DURSBAN 2 PLUS 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

Fluid Ounces* of DURSBAN 2 PLUS to Use

Gallons of Spray Mixture Desired	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 teaspoonfuls
**Calculated on basis of deodorized kerosene

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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 certain other insecticides), ants, crickets, firebrats, silverfish, spiders, and stored product insects such as confused flour beetles, saw-tooth grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths, and red flour beetles. Apply as a coarse, low pressure (20 psi or less) spray to localized areas. 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 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 pin stream of insecticide should be used. Repeat treatment as needed but not more often than once every 7 days in restaurants and similar food service establishments or more than once every 14 days in other types of food handling establishments. In case of emergency (call back), DURSBAN 2 PLUS may be applied after 2 days from the last treatment, but emergency use should be limited to once per month.

APPLICATION 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 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 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.

For control of fleas and 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, windows 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. Additionally, treat pets with a product registered for use on pets.

ATTENTION: (Pests Indoors): Do not apply water-based sprays of this product in conduits, meter housings, junction and switch boxes or other electrical equipment because of possible shock hazard. If there is need to treat such areas use oil-based sprays. Prior to application de-energize electrical circuits. After application allow time for oil to evaporate before starting meter or other 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 surfaces. 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.

FOR FURTHER INFORMATION CONTACT THE MANUFACTURER

PESTS OUT-OF-DOORS

General Information: Use DURSBAN 2 PLUS for control of certain pests on outside surfaces of buildings and for perimeter treatment. Consult the following directions for dosage and application details to control the pests listed.

Pests on Outside Surfaces of Buildings: Use DURSBAN 2 PLUS 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, millipeds, 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, patios, garages, refuge dumps and other areas where these pests congregate or have been seen. Do not treat or allow the spray to contact plants (lawns, flowering plants, shrubs, trees, evergreens, etc.) because of possible injury. Repeat treatment as needed to maintain effectiveness.

Perimeter Treatment: To help prevent infestation of buildings by ants, crickets, earwigs, millipeds, 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 feet, where pests are active and may find entrance. Use 16 ounces of DURSBAN 2 PLUS 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 Turf Grass Areas: Use DURSBAN 2+ to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN 2+ 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.

DOSAGES and DIRECTIONS for USE on TURF

Pest	Dosage DURSBAN 2 PLUS per 1000 sq. ft.	Remarks	
Ants	1-1/2* fl. oz.	Spray when pests first appear, repeat when needed. For sod webworms delay watering or mowing the treated area for 12 to 24 hours after treatment.	
Armyworms			
Chiggers			
Chinch bugs			
Clover mite			
Crickets			
Cutworms			
Earwigs			
Fleas			
Grasshoppers			
Sod webworms			
Ticks			
Turfgrass (Hyperodes) weevil	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 in your area.

DOSAGES and DIRECTIONS for USE on TURF (cont.)

Pest	Dosage DURSBAN 2 PLUS per 1000 sq. ft.	Remarks
White grubs (Including European chafer, southern masked chafer and Japanese beetle larvae)	3 to 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 in 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.
Bluegrass billbug	3 to 6 fl. oz.	Spray early in the season when adults first appear. Repeat when needed.

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

Pests of Ornamentals: Use DURSBAN 2+ 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 2+ 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 days intervals, if needed. NOTE - Do not use on azaleas, camellias, perennettias, rose bushes, or variegated ivy because of possible injury to these plants.

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DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

Pests (cont.)	Amount of DURSBAN 2+ in Water to Make			
	1 gallon	10 gallons	100 gallons	
Aphids	Mites	0.5 fl. oz.	1.6 fl. oz.	1 pint
Bagworms	orn. striped cutworm			
Eastern tent caterpillar	cutworm			
Fall webworm	Whiteflies			
Grasshoppers	Yellow-necked caterpillar			
Cutworms	Minnow weevil	1.2 fl. oz.	3.2 fl. oz.	1 quart
Leafhoppers	Red-thumped caterpillar			
Mealybugs	Thrips (exposed)			
Ash borer	Scale crawler	1.2 fl. oz.	6.4 fl. oz.	2 quarts
Docwood borer	Oak leaf miner			
Lilac borer	Line needle			
Rhododendron borer	Tea Winter moth			
Peach tree borer		0.5 fl. oz.	10.2 fl. oz.	6 quarts

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Peach Tree Borer. Apply DURSBAN 2+ to flowering trees and shrubs of the Genus *Prunus* in water as a trunk spray before newly hatched larvae enter the trees. Apply as a 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. Do not treat fruit or the upper portions of the tree.

Wood Boring Insects Infesting Shrubs and Trees such as Dogwood Borer, Lilac Borer, Ash Borer and Rhododendron Borer: Apply DURSBAN 2+ 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 2+ in 100 gallons of water and apply uniformly as a coarse, low pressure spray.

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.

Area Control of Ticks and Chiggers: Use DURSBAN 2+ insecticide 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 2+ 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 and until spray has dried.

Imported Fire Ant: Treatment of potted, containerized and balled and burlapped nursery stock. Use DURSBAN 2+ 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 2+ diluted at the rate of 8 fl. oz. per 100 gallons of water. Do not remove ball or wrap or plastic containers with drain holes prior to submerging. Soil submerged until complete saturation has occurred, usually about 20 seconds. Wear rubber gloves, boots and apron during the operation. An alternate treatment to submerging potted plants is to apply a dilute solution of DURSBAN 2+ (8 oz. per 100 gallon of water) as a soil drench to the plant water during routine watering activities. For soil drenching, dilute to the point of run-off on a twice daily schedule for 7 to 10 consecutive days. Do not remove burlap wrap or container from plants after treatment. Application should be made in a well-ventilated area.

Treatment of fire ant mounds. Apply DURSBAN 2+ as a trench diluted at the rate of 1 fl. oz. (30cc) per gallon of water. Gently sprinkle a total of 1 gallon of the diluted 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 retard the ants' underground migration, reducing product effectiveness.

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DIRECTIONS FOR USE (cont.)

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PRECAUTIONARY STATEMENTS
Hazards to Humans

WARNING: 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

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 20 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 drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes.

Physical or Chemical Hazards

COMBUSTIBLE: Do Not Use or Store Near Heat or Open Flame - Do Not Cut or Weld Container

STORAGE AND DISPOSAL *12 Pt. Type*

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

NON-HAZARDOUS WASTE

Pesticide Disposal: Empty container, prep. mixture, or rinse water may not be used according to label instructions and must be disposed of according to applicable Federal, State and Local regulations.

Container Disposal: Empty container and equipment must be cleaned, recycled, or reconditioned, or prepared for reuse, or sent to a recycling facility, or by other approved means as required by applicable regulations.

NOTICE: Buyer assumes all risk and liability of use, storage and/or handling of this material not in accordance with the terms of this label.

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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH 567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: REGISTRATION RENEWAL <i>Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended.</i>	NAME OF PESTICIDE PRODUCT	
	NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	
<p>NOTE: Changes in labeling, formula, literature, or other information that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an endorsement or approval of the product by this Agency. In order to protect health and the environment, the Administrator, on his own motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<input type="checkbox"/> ATTACHMENT AVAILABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosures

RD/FHB:DCR-28533:Ellenberger:eg:Raven:557-2226:RD-14:5/23/84:Del.6/11/84