

OCT 31 1985

Ms. T. J. Maitland
Miller Chemical & Fertilizer Corporation
P.O. Box 333
Hanover, PA 17331

Subject: Added Sites and Pests
Pratt Dursban 250 EC
EPA Registration No. 904-234
Your Application Dated September 3, 1985

Dear Ms. Maitland:

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A) is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 5(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

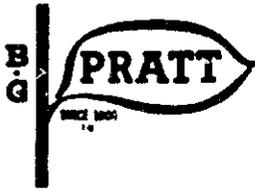
Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (T8-767)

Enclosure

JOB 92945:Ellenberger:RD-26:Kendrick:898-1270:10/21/85:Del 11/1/85:lfh:VO

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CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							



DURSBAN* 250 EC

LAWN AND ORNAMENTAL PLANT INSECTICIDE

To be applied only by or under the direct supervision of commercial applicators responsible for insect control programs. Sale to or use by persons owning or occupying a dwelling is strictly prohibited.

ACTIVE INGREDIENT:	BY WEIGHT
Chlorpyrifos [0,0-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate].....	24.1%
INERT INGREDIENTS:.....	75.9%
TOTAL.....	100.0%

THIS PRODUCT CONTAINS 2 LBS. OF CHLORPYRIFOS PER GALLON.

*Trademark of THE DOW CHEMICAL COMPANY.

EPA Reg. No. 904-234

EPA Est. 72-PA-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCTS CONTAINS AN AROMATIC PETROLEUM SOLVENT.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush with plenty of water for 15 minutes. Get medical attention.

IF INHALED: Remove to fresh air. If symptoms of cholinesterase inhibition appear, get medical attention immediately.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

ACCEPTED with COMMENTS in EPA Label Data

OCT 21 1985

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Pratt-Gabriel Division MILLER CHEMICAL & FERTILIZER CORPORATION Hanover, Pennsylvania 17331

NET CONTENTS: 1 GALLON LIQUID 5 GALLONS LIQUID 15 GALLONS LIQUID

904-234

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: WARNING--May be fatal if swallowed. Excessive absorption through skin may be fatal. Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes, on skin or clothing. Wear eye protection. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area. Wear protective clothing and gloves when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs and water supplies.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. 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. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE - Do not use or store near heat or open flame. Do not cut or weld container.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not formulate this product into other end-use products.

STORAGE AND DISPOSAL

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

STORAGE: Store in original container in secured dry storage area. Prevent cross contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

PESTICIDE 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: METAL CONTAINERS--Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PLASTIC CONTAINERS--Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS

PESTS INDOORS

General Information: Use DURSBAN* 250 EC 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* 250 EC 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.

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing DURSBAN* 250 EC 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. Mixtures of DURSBAN* 250 EC and dichlorvos (DDVP) should not be sprayed on carpets.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces† of DURSBAN* 250 EC 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 1/2	26 2/3
Oil-based spray††		
1	1	2
3	3	6
5	5	10
10	10	21

† Note: 1 fluid ounce = 2 tablespoonsful = 6 teaspoonsful

†† Calculated on basis of deodorized kerosene

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 other insecticides), ants, crickets, firebrats, silverfish, spiders and stored product insects such as confused flour beetles, saw-toothed 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 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 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 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* 250 EC may be applied after 2 days from 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 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 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.

Attention (Pests Indoors): Do not apply waterbase 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. 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* 250 EC insecticide for control of certain pests on outside surfaces of buildings and on 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 on Outside Surfaces of Buildings: Use DURSBAN* 250 EC 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, millipedes, 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, refuse dumps and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

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 buildings, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 1 pint of DURSBAN* 250 EC per 100 gallons of water and apply as a coarse spray at the rate of about 10 gallons spray mixture per 1,000 sq. ft. to thoroughly and uniformly wet the band area.

Pests of Lawns and other Ornamental and Recreational Turf Grass Areas: Use DURSBAN* 250 EC to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN* 250 EC 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.

Pests of Ornamentals: Use DURSBAN* 250 EC 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* 250 EC 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 day intervals, if needed. NOTE: Do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

Wood Boring Insects Infesting Shrubs and Trees Such as Dogwood Borer, Lilac Borer, Ash Borer and Rhododendron Borer: Apply DURSBAN* 250 EC 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* 250 EC in 100 gallons of water and apply uniformly as a coarse low-pressure spray.

DOSAGES and DIRECTIONS for USE on TURF

Pest	Dosage		Remarks
	DURSBAN* 250 EC per 1000 sq. ft.		
Ants, Armyworms, Chiggers, Chinch bugs, Clover mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod Webworms, Ticks	1½ † fl. oz.		Spray when pests first appear, retreat when needed. For sod webworms delay watering or mowing the treated areas to 12 to 24 hours after treatment.
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.
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 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.
Bluegrass billbug	3 to 6 fl. oz.		Spray early in the season when adults first appear. Retreat when needed.

† 1½ fl. oz. per 1000 sq. ft. = 7½ fl. oz. per 5000 sq. ft. = 1 pint per 10,700 sq. ft.
= 2 quarts per acre.

Peach Tree Borer: Apply DURSBAN* 250 EC 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.

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.

Native Elm Bark Beetle. Prevention of Overwintering. To prevent the adult beetle from overwintering in uninfected trees and to reduce beetle populations in disease free areas, apply DURSBAN* 250 EC insecticide as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Applications can be made with either a back pack mist blower or a hydraulic pressure sprayer from spring through to the early fall. Prevention of Branch and Twig Feeding on High Value Elm Trees. To reduce the twig and branch feeding on uninfected trees deemed to be high in value apply a 0.5% chlorpyrifos water spray to the tree crown. Application should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown.

Area Control of Ticks and Chiggers: Use DURSBAN* 250 EC insecticide to control ticks and chiggers infesting noncropland 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* 250 EC 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 or until spray has dried.

Imported Fire Ant: Treatment of potted, containerized and balled and burlapped nursery stock. Use DURSBAN* 250 EC 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* 250 EC diluted at the rate of 8 fl. oz. per 100 gallons of water. Do not remove burlap wrap or plastic containers with drain holes prior to submerging. Keep soil submerged until complete saturation has occurred, normally about 30 seconds. Wear rubber gloves, boots and apron during this operation. An alternate treatment to submerging potted plants is to apply a solution containing DURSBAN* 250 EC (8 oz. per 100 gallons of water) as a substitute for plain water during routine watering activities. This solution should be applied to the point of run-off on a twice daily schedule for three consecutive days. Do not remove burlap wrap or container from plants prior to treatment. Application should be made in a well-ventilated area. Treatment of fire ant mounds. Apply DURSBAN* 250 EC as a drench diluted at the rate of 1 fl. oz. (30cc) per 2 gallons 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 disturb the ants and cause migration, reducing product effectiveness.

	Pest Controlled	Amount of DURSBAN* 250 EC in Water to Make		
		3 gallons	10 gallons	100 gallons
Aphids	Mites	0.5 fl.oz.	1.6 fl.oz.	1 pint†
Bagworms	Orangestriped oakworm			
Eastern tent caterpillar	Spittlebugs			
Fall webworm	Whiteflies			
Grasshoppers	Yellownecked caterpillar			
Cutworms	Mimosa webworm	1.0 fl.oz.	3.2 fl.oz.	1 quart††
Leafhoppers	Redhumped caterpillar			
Mealybugs	Thrips (exposed)			
Ash borer	Scale crawlers,	2.0 fl.oz.	6.4 fl.oz.	2 quarts†††
Lilac borer	Oak lecanium			
Dogwood borer	Pine needle			
Rhododendron borer	Tea, White peach			
Peach tree borer		5.8 fl.oz.	19.2 fl.oz.	6 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
- †††† Equivalent to 3 pounds of chlorpyrifos per 100 gallons

Mosquitoes: Apply DURSBAN* 250 EC insecticide to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix DURSBAN* 250 EC 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.

Warning (Mosquito Control): Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control.

Waste Water (High in Organic Content) - Use DURSBAN* 250 EC insecticide for control of mosquito larvae in agricultural, industrial, and urban waste waters that contain high levels of organic matter, including sewage drains, ponds and lagoons; industrial waste water impoundments; cesspools and septic tanks; catch basins. Consult the following table for dosage and application details.

Area To Be Treated	DOSAGE FOR MOSQUITOES IN WASTE WATER	
	DOSAGE OF DURSBAN* 250 EC	USE DIRECTIONS
Sewage drains	2 fl. oz. per 5000 cu. ft.	Pour the required amount of undiluted DURSBAN* 250 EC into the inflowing water or apply to the water as a coarse, low pressure spray. Treat stagnant waters by diluting DURSBAN* 250 EC with sufficient water or oil to obtain uniform distribution.
Waste disposal ponds and lagoons	of water or 8.7 fl. oz. per acre foot of water†	
Industrial waste water impoundments		
Cesspools	2 fl. oz. per 1000 cu. ft. of water	Apply directly or flush the required amount down a toilet.
Septic Tanks		
Catch basins	0.08 fl. oz. per catch basin	Dilute 4 fl. oz. of DURSBAN* 250 EC with 3 gallons of water to make 0.25% chlorpyrifos spray and apply 1/2 pint of the mixture per catch basin as a coarse, low pressure spray. Uniformly cover the exposed walls (sides) of the basin and the water surface.

† Equivalent to 0.1 part per million of chlorpyrifos in the total volume of water treated.

