

62719-11

10/23/2000

1/10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Oct 23, 2000

John Jachetta, PhD
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

Subject: Dursban 4E
EPA File No. 62719-11
Submission dated 7/5/00

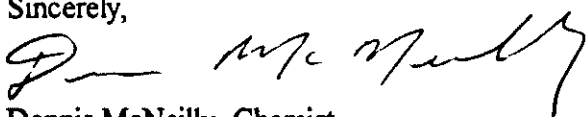
Dear Dr. Jachetta:

The revised product labeling referred to above, submitted in connection with the ~~amendment to the registration of Dursban 4E~~

1. Delete the statement: "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."
2. Delete the word "porch" on page 10 of the label that lists use sites at Industrial Plants. Porches are normally associated with residential structures rather than "Industrial Plant Sites" and this listing could be confusing.

As specified in paragraph 5 in the Chlorpyrifos MOA, this amendment is effective December 1, 2000. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. Failure to comply with any of the conditions of registration set forth in Paragraph 10 of the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e). Submit one copy of the revised final printed label before releasing the product for shipment. A stamped copy of the label is enclosed. If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). If you have questions, please contact me at (703) 308-6742 or electronically at McNeilly.Dennis@EPA.gov.

Sincerely,


Dennis McNeilly, Chemist
Insecticide-Rodenticide Branch
Registration Division (7505C)

2/10

(Base label):

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

(logo) Dow AgroSciences LLC

Dursban* 4E

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:

chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate	44.9%
Inert Ingredients	55.1%
Total	100.0%

Contains 4 pounds of chlorpyrifos per gallon.
Contains xylene range aromatic solvents.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
OCT 23 2000
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
62719-11

Keep Out of Reach of Children

WARNING AVISO

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Precautionary Statements

Hazards to Humans and Domestic Animals

May Be Fatal If Swallowed • Absorption Through Skin May Be Fatal • Causes Substantial But Temporary Eye Injury • Causes Skin Irritation • This Product May Cause Skin Sensitization Reactions In Certain Individuals

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area. When handling concentrate wear eye protection and protective clothing such as long-sleeved shirt, long-legged pants, rubber gloves and footwear, i.e. neoprene or nitrile butadiene rubber, resistant to aromatic solvents. 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.

First Aid

If swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

If on skin: Immediately wash with plenty of soap and water. Get medical attention.

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 and 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.

Environmental Hazards

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

Physical or Chemical Hazards

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

Refer to label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-11

EPA Est. 464-MI-1

*Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC • Indianapolis, IN 46268 USA

Specialty Insecticide

Net Contents XXX

(Datapack cover):

RESTRICTED USE PESTICIDE
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Dursban* 4E

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Active Ingredient:

chlorpyrifos: O,O-diethyl O-	
(3,5,6-trichloro-2-pyridinyl)	
phosphorothioate	44.9%
Inert Ingredients	55.1%
Total	100.0%

Contains 4 pounds of chlorpyrifos per gallon.
Contains xylene range aromatic solvents.

Keep Out of Reach of Children

WARNING AVISO

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Refer to label booklet for additional precautionary information and Directions for Use including Storage and Disposal.

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Specialty Insecticide

Net Contents XXX

(Page 1 through end):

Table of Contents	Page
Precautionary Statements	
Hazards to Humans and Domestic Animals	-
First Aid	-
Environmental Hazards	-
Physical or Chemical Hazards	-
Directions for Use	-
Storage and Disposal	-
General Information	-
Turf in Golf Courses, Road Medians and Industrial Plant Sites	-
Pest Control on Outside Surfaces and Around Buildings (Industrial Plant Sites Only)	-
Warranty Disclaimer	-
Inherent Risks of Use	-
Limitation of Remedies	-

Precautionary Statements

Hazards to Humans and Domestic Animals**WARNING**

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Physical or Chemical Hazards

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. Read all Directions for Use carefully before applying.

Chemigation: Do not apply this product through any type of irrigation system.
Do not formulate this product into other end-use products.

Not for use on plants grown for sale or other commercial use, or for commercial seed production, or for research purposes.

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. Storage below 20°F may result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. 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.

Metal Container Disposal: 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 or local authorities.

Plastic Container Disposal: Triple rinse (or equivalent). Then 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.

Reusable Portable Container Disposal: Do not rinse or put any other material into container. When returning reusable portable container, seal all openings and return to Dow AgroSciences.

General Information

Dursban® 4E insecticide is an emulsifiable concentrate for use as a spray to control various insect pests. The pests controlled are listed in the accompanying tables. Dursban 4E is compatible with insecticides, miticides, and fungicides commonly recommended except for alkaline materials such as Bordeaux mixture and lime. A small amount of spray mixture should be prepared to check for compatibility before a large volume of spray is mixed.

Attention: Do not allow public access to treated areas until spray has dried. Keep out of fishpools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding. Do not use in poultry houses.

Turf in Golf Courses, Road Medians and Industrial Plant Sites (Maximum Use Rate of 1 qt (1 lb a.i.)/Acre)

Within the specified use sites, use Dursban 4E to control the pests listed in the following table by applying at the recommended dosages and in accordance with the directions given below. Dilute Dursban 4E in water 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 turf should be moist at time of treatment. Spray when pests first appear; re-treat when needed.

8/10

Pest †	Amount of Dursban 4E per		Specific Directions
	1000 sq ft	Acre	
	3/4 fl oz	1 qt	
Ants (including foraging fire ants) Armyworms (Beet) (Fall) (Yellowstriped) Centipedes Chiggers ¹ Chinch bugs Clover mites Cutworms Crickets Earwigs Fiery skipper Fire ants (mounds) ² Fleas Gnats Grasshoppers Greenbugs June beetles Leafhoppers Lucerne moths Millipedes Mites (Clover) (Formula grass) (Winter grain) Mosquitoes ³ Sod webworms ⁴ (lawn moths) Sowbugs Springtails Ticks ¹			<ol style="list-style-type: none"> Use Dursban 4E for area control of ticks and chiggers infesting golf courses, road medians, and industrial plant sites where these pests are present and create a nuisance or a possible public health problem. Do not allow public use of treated areas during application or until spray has dried. Apply Dursban 4E in water at the rate of 1/2 pint/acre (equivalent to 1/2 fl oz/2,700 sq ft) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand- or power-operated spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 - 100 gal/acre. For individual fire ant mounds, apply Dursban 4E as a drench, diluted at the rate of 1 fl oz (30 ml) per 4 gal of water. Gently sprinkle a total of 1 gal of the diluted emulsion over the surface of each mound using a gentle spray (such as a sprinkler can). Thoroughly wet mound and surrounding areas 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. Mosquitoes coming to rest on areas treated for control of turf pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions. For sod webworms, delay watering and mowing the treated area for 12 - 24 hours after treatment.
	3/4 fl oz	1 qt	
Bluegrass billbugs ¹			<ol style="list-style-type: none"> For bluegrass billbugs, spray early in the season when adults first appear. Re-treat as needed.

† Superscripts refer to Specific Directions.

9/10

Pest Control on Outside Surfaces and Around Buildings (Industrial Plant Sites Only)

Apply Dursban 4E as a residual spray to outside surfaces of buildings including porches, window frames, eaves, patios, garages, refuse dumps, and other areas where pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

Pest †	Amount of Dursban 4E in Water to Make			Specific Directions
	1 gallon	10 gallons	50 gallons	
Ants	For Band Treatment¹			1. To help prevent infestation of buildings, treat a band of soil 6 - 10 ft wide around and adjacent buildings, also the building foundation to a height of 2 - 3 ft, where pests are active and may find entrance. Use 4 fl oz of Dursban 4E per 50 gal of water and apply as a coarse spray at the rate of about 10 gal spray mixture per 1,000 sq ft to thoroughly and uniformly wet the band area. 2. For scorpions, treat or remove accumulations of lumber, firewood, and other materials which serve as insect harborage sites.
Bees	1/12 fl oz	3/4 fl oz	4 fl oz	
Carpenter ants				
Clover mites				
Cockroaches ††				
Crickets				
Earwigs	For Outside Surfaces			
Fleas	1 1/3 fl oz	13 1/3 fl oz	2 qt	
Flies				
Hornets				
Millipedes				
Mosquitoes				
Scorpions ²				
Silverfish				
Sowbugs				
Spiders				
Ticks				
Wasps				
Yellowjackets				

† Superscripts refer to Specific Directions.
 †† Controls American and smokey brown cockroaches.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

*Trademark of Dow AgroSciences LLC
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