

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



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Oct 23, 2000

Dr. John J. Jachetta  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268-1054

Subject: Dursban 1F  
EPA File No. 62719-271  
Submission dated 10/9/00

Dear Dr. Jachetta:

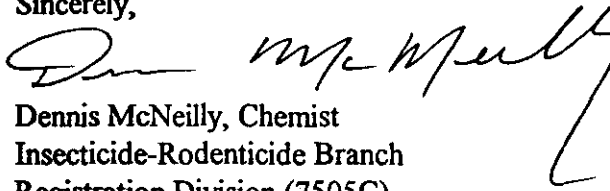
The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable, provided you incorporate the Agency's conditions as enumerated in this letter below and submit one copy of your final printed label prior to releasing the product for shipment.

1. Replace the statement of page 5 under the Fire Ant Control Heading: "(As determined by local or state authorities, under certain circumstances applications may be made in areas other than golf course turfgrass, road medians, and industrial plant sites)" with "(Application may be made in areas other than golf course turfgrass, road medians, and industrial plant sites.)"

The Agency notes that this product will be marketed in 25 lb. containers. The conditions of paragraph 5 of the June 2000 Memorandum of Agreement apply to this label amendment, specifically this amended label is effective December 1, 2000. 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). If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e).

A stamped copy of the label is enclosed for your records. If you have questions, please contact Dennis McNeilly at (703) 308-6742 or electronically at [McNeilly.Dennis@EPA.gov](mailto:McNeilly.Dennis@EPA.gov).

Sincerely,

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

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# Dursban\* 1F

For Professional Use Only.

To be applied only by or under the direct supervision of trained applicators responsible for insect control programs.

[Editor's note: Supplemental distributor may insert fertility claims related to the fertilizer component of product formulation.]

[Editor's Note: Required text] For control of various insects (and other arthropods) infesting lawns and other ornamental turfgrass areas in golf courses, road medians and industrial plant sites, flower beds, under shrubbery, and for effective control of fire ant mounds for public health purposes  
\_\_\_\_\_and/or

Editor's note: Supplemental distributor may select any of the following text as additional sales copy]

Fertilizes ~~your lawn~~ golf course turfgrass in one easy application  
and/or

Iron added for greener ~~lawn~~ golf course turfgrass  
and/or

Contains Dursban  
and/or

Contains Dursban - the solution to insect problems  
\_\_\_\_\_and/or

Treats up to 10,000 sq ft  
\_\_\_\_\_and/or

Treats from 5,000 to 10,000 sq ft  
and/or

Ready-to-use granules  
and/or

Do-it-yourself insect control  
\_\_\_\_\_and/or

Can be applied spring, summer, and fall  
and/or

Effective ~~European Crane fly control~~  
\_\_\_\_\_and/or

Kills home-invading pests  
and/or

Effective ~~outdoor ant control~~  
\_\_\_\_\_and/or

Controls fire ants  
and/or

For mound treatment control of imported fire ants  
and/or

Kills ~~lawn insects~~  
and/or

Controls ~~all major lawn insect problems~~  
\_\_\_\_\_and/or

Effective insect control ~~in lawns and gardens~~

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.

62719-271

- and/or
- Controls surface insects that live in thatch
- and/or
- Controls ants, fleas, and ticks in one easy application
- and/or
- Controls ants, fleas, ~~grubs~~, and ticks
- and/or
- For chinch bugs, ants, fleas and other insects
- and/or
- Control chinch bugs for up to five weeks
- and/or
- For flea and tick control
- and/or
- Stops fleas and other surface insects
- and/or
- Effective grub control
- and/or
- ~~Kills grubs and other sub-surface and surface insects~~

Active ingredient

chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate .....	1.0%
Inert ingredients (not more than) <sup>††</sup> .....	99.0%
Total .....	100.0%

<b>Guaranteed Fertilizer Analysis†</b>	
Total Nitrogen (N) .....	XX.X%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX.X%
Soluble Potash (K <sub>2</sub> O) .....	XX.X%

[†Editor's note: See formulator label for specific fertilizer analysis of the fertilizer blend used.]

Contains 0.43<sup>††</sup> pounds active ingredient per 50 pound bag.

[††Editor's note: Amount of active ingredient may be calculated according to package size chosen by supplemental distributor.]

[Note to Label Editor: Minimum package size is 25 lbs per EPA Memorandum of Agreement Dated June 7, 2000.]

U.S. Patent No. 3,244,588

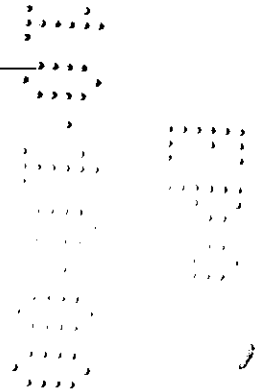
**Keep out of reach of children**  
**CAUTION**

See additional cautions and warnings on back panel

EPA Reg. No. 62719-271

EPA Est. \_\_\_\_\_

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC, Indianapolis, Indiana 46268-1054 USA





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## Precautionary Statements

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**Hazards to humans and domestic animals**

**Keep Out of Reach of Children**

### CAUTION

**Causes moderate eye irritation.**

**Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.**

#### First Aid

**If in eyes:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**Note to physician:** Active ingredient is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

#### Environmental Hazards

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. 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. Apply this product only as specified on this label.

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## Directions for Use

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

**Read these entire directions and disclaimer before use. Use strictly in accordance with label precautionary statements, directions for use and disclaimer.**

**Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.**

### Storage and Disposal

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

**Storage:** Store unused product in original container only. Store in a cool, dry area ~~out of the reach of children and animals. Not for storage in or around the home.~~ Protect from excess heat. Protect from freezing.

**Pesticide disposal:** Wastes resulting from the use of this product may be disposed of on site or in an approved waste disposal facility.

**Container disposal:** Completely empty bag into application equipment, then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## General Information

Dursban\* 1F insecticide is intended for control of various insects including fire ants and ticks (and other arthropods) infesting golf course turfgrass, road medians and industrial plant sites, lawns and other ornamental turf areas, flower beds and shrubbery. Best results are obtained if the treated area receives approximately ½ inch of rainfall or irrigation immediately after application to move the insecticide into the zone of insect infestation and activate the fertilizer. In addition, this product may be used for public health uses to control fire ant mounds.

**General Fertility Note:** Turfgrass requires periodic feedings throughout the season. At those times of year when insecticide applications are not required, use a suitable lawn golf course turfgrass fertilizer to maintain turfgrasses in a vigorous growth condition.

Do not apply more than 2.3 lb per 1000 sq ft or 100 lb per acre per application.

~~Do not apply more than 10 lb per 1000 sq ft per year.~~

Do not reapply within 7 days of initial application.

Do not apply more than 4 times per year.

Do not use this product indoors.

## Approved Uses

### Applications to Golf Course Turfgrass, Road Medians and Industrial Plant Sites

Apply Dursban 1F uniformly to ~~home lawns~~ golf course turfgrass, road medians and industrial plant sites at the rate of 100 pounds per acre (2.5-2.3 pounds per 1,000 sq ft) unless a higher rate is specified in Specific Use Directions below. Use any hand or power-operated gravity or rotary type spreader designed for application of granular materials. ~~To help obtain uniform distribution of Dursban 1F on the lawn, apply one-half of the required amount of product in one direction; then apply the amount remaining at a right angle.~~

#### **Insects Controlled Include:**

ants	fleas
armyworms	grasshoppers
billbugs	sod webworms (lawn moths)
boxelder bugs	sowbugs (pillbugs)
chiggers	(1) fire ants
chinch bugs	(2) <del>Hyperodes</del> (turfgrass) weevils
clover mites	(3) European crane fly larvae <sup>†</sup>
crickets	(4) <del>white grubs</del> <sup>†</sup>
cutworms	(5)(2) ticks (including deer ticks)
earwigs	

<sup>†</sup>Indicates that watering in of Dursban 1F will increase effectiveness.

(#) Numbers in parentheses refer to Specific Use Directions.

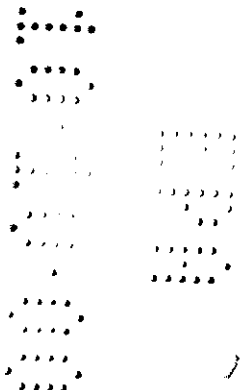
#### **Specific Use Directions:**

1. **Fire ant control (for individual ant mounds):** Apply Dursban 1F at a rate of 2 ounces (4 tablespoons) per active mound. Sprinkle granules gently and evenly over surface of mound and out approximately two feet surrounding the mound. Avoid disturbing ants. For best results, apply when ants are least active: in cool weather, 65°F to 80°F, or in early morning or late evening hours. Treat new mounds as they appear.
2. ~~**Turfgrass weevil Control (larvae of Hyperodes weevil)**~~ Apply 5 pounds of Dursban 1F per 1,000 sq ft (twice the rate in application table above). Apply the granules uniformly over the area to be treated. For best results, treat when grubs are young and actively feeding near the soil surface. Consult your local Agricultural Extension Service specialist for proper time to treat in your geographic area.
3. ~~**European crane fly control:**~~ Apply Dursban 1F at a rate of 3.5 pounds per 1,000 sq ft using any granular application equipment as described above. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil. Apply the equivalent of 1/2 to 1 inch of water by using a sprinkler or other means of applying water to turf. Consult your local Agricultural Extension Service specialist for timing of application in your geographic area.
4. ~~**White grub control (such as larvae of Japanese beetle, black turfgrass atonius, European chafer, and southern masked chafer):**~~ Apply Dursban 1F at 5 pounds per 1,000 sq ft (two times the amount of Dursban 1F shown in the table above). When high populations of grubs are present in the area to be treated, a repeat application of 5 pounds of Dursban 1F per 1,000 sq ft may be made 7 to 14 days following the initial application. Apply granules uniformly over the treatment area. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil. Apply the equivalent of 1/2 to 1 inch of water by using a sprinkler or other means of applying water to turf. For best results, treat when grubs are young and actively feeding near the soil surface. Consult your local Agricultural Extension Service specialist for proper time to treat in your geographic area.
52. **For control of ticks infesting turfgrass areas around houses and in yard areas in golf courses, road medians and industrial plant sites,** tuck pants legs into socks to avoid tick bites. An insect repellent sprayed onto lower legs and socks should give additional protection from possible bites. Wearing light colored pants and socks will aid in spotting ticks that may attach during treatment.

Treat perimeter of ~~house and yard~~ turfgrass areas around natural vegetation by applying under shrubbery, as well as in and around ground cover, and around and under patios. Treat edges or perimeter of ~~yard area~~ where grass and other ground cover plants exist and other areas that appear likely to serve as harborage sites for ticks that have removed themselves from their host. Prior to and following treatment, weeds and high grasses should be kept trimmed to reduce tick harborage sites. Rodents can serve as hosts for ticks. Rock piles, wood piles, and other rodent habitats should be removed or reduced. Key months for deer tick control are April through November in most parts of the country. For specific timing of application in your geographic area, contact your local extension service.

#### **Rate Calculation**

To determine the amount of Dursban 1F required for treatment: (1) Calculate the **number of square feet** in the area to be treated, by determining length (L) and width (W) and then multiply L times W; (2) Divide the number of square feet in the area to be treated by 1000 to calculate the number of 1000 sq ft units to be treated; and (3) determine the total amount of Dursban 1F needed by multiplying this value (the number of thousands of square feet to be treated) times the application rate.



**Example:**

- Length (L) = 75 feet and Width (W) = 45 feet (75 X 45 = 3375 sq ft)
- 3375 sq ft divided by 1000 = 3.375 thousands of square feet
- If the application rate is 3.5 lb per 1000 sq ft, the amount to use would be 3.5 X 3.375 = 11.8 lb

**Fire Ant Mound Treatments for Public Health Purposes**

**(As determined by local or state authorities, under certain circumstances applications may be made in areas other than golf course turfgrass, road medians and industrial plant sites)**

For individual ant mounds, apply Dursban 1F at a rate of 2 ounces (4 tablespoons) per active mound. Sprinkle granules gently and evenly over surface of mound and out approximately two feet surrounding the mound. Avoid disturbing ants. For best results, apply when ants are least active: in cool weather, 65°F to 80°F, or in early morning or late evening hours. Treat new mounds as they appear.

**Spreader Settings As a Guide to Calibration**

**Note: 1 oz = 6 teaspoons = 2 tablespoons = 1/8 cup**

**To Control the Following Insects in Flower Gardens and Under and Around Shrubbery:**

- ants \_\_\_\_\_ foraging fire ants
- crickets \_\_\_\_\_ cutworms
- sowbugs (pillbugs) \_\_\_\_\_ grasshoppers
- earwig \_\_\_\_\_ armyworms
- ticks

Apply Dursban 1F evenly over soil within flower beds and under shrubbery. Use the same dosage recommended for control of these pests on turf found in the application chart. Treat individual fire ant mounds as instructed above.

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**Warranty Disclaimer**

Seller 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. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

