

PM 04 59144-9 10/21/98

# Dursban® 1% Granules®

1% Chlorpyrifos (Dursban® Brand Insecticide)

Control of Fleas, Ticks, Chiggers and other Crawling Insects as listed in Lawns, Turf and around the outside of Homes and Apartments, Condominiums, Warehouses, Hospitals, Schools, Food Handling Establishments, and Commercial buildings.

For Control of Insects, as listed, In Home Vegetable Gardens.

## Kills Fire Ants

1 POUND TREATS UP TO 400 SQ.FT

**ACCEPTED**  
DEC 21 1998  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 59144-9

Soil and Turf Treatment

Treats up to 4,000 sq.ft.

Kills Fire Ants. Controls Fleas, Ticks, Grubs & Other Crawling Insects as Listed.



Patented Quick Dissolve Granules

Bio-170 Granules Patent No. 5,219,818

**ACTIVE INGREDIENT:**

Chlorpyrifos: [O,O,-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] - - 1.0%

**OTHER INGREDIENTS:** - - - - - 99.0%  
Total 100.0%

DURSBAN® is a Reg. Trademark of Dow Agrosciences  
KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

EPA Reg. No. 59144-9 EPA EST. NO. 59144-GA-1, 6720-FL-1, 51036 GA-1, 768-GA-1, 44818-MO-1, 19713-GA-1,  
Subscript is first letter of run code on container. (50-0veg1.p65 (12-04-98))

**NET WEIGHT 10 POUNDS**



P.O. BOX 290 - MADISON, GA 30650

# Dursban® 1% Granules

## 1% Chlorpyrifos (Dursban® Brand Insecticide)

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious or convulsing person. Get medical attention. **IF IN EYES:** Flush eyes with plenty of water. **IF ON SKIN:** In case of contact, remove contaminated clothing and wash affected area with soap and water. **NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote only by injection.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** May be harmful if swallowed. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling and before eating or smoking. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and water supplies. Keep children and pets off treated areas until this material is washed into the soil and the grass is dry.

#### 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 contaminate water when disposing of equipment washwaters. Use only as directed.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on turfgrass or plants being grown for sale or other commercial uses such as sod, commercial seed production or for research purposes. For use on plants intended for ornamental purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at 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. **HOUSEHOLD:** Do not re-use empty container. Wrap container and put in trash.

### Controls the following Insects

Ants, Armyworms (Beet, Fall, Yellowstriped), Brown Dog Ticks, Centipedes, Chiggers\*, Chinch Bugs\*, Clover Mites, Cutworms, Crickets, Earwigs, Fiery Skipper, Fleas\*, Grasshoppers, Greenbugs, Leafhoppers, Millipedes, Sod Webworms\* (Lawn Moth), Sow Bugs, Springtails, Turfgrass Weevil\* (Hyperodes), European Crane Fly larvae\*, White Grubs\* (Black Turfgrass Ataenius, European Chafer, Southern Chafer, Japanese Beetle, June Beetle larvae), Bluegrass Billbugs\*, Fire Ants\*.

### \*SPECIFIC DIRECTIONS

The following paragraphs correspond to insects followed by asterisk(\*) on the front panel (above). Insects not followed by an asterisk(\*) may be controlled by following DIRECTIONS FOR USE ON LAWNS ....(etc.). Repeat treatments as needed for control.

#### CHIGGERS, TICKS, & FLEAS

Use 1 lb./400 sq.ft. (2.25 to 2.50 lbs./1,000 sq.ft.) for area control of these insects, infesting non-crop land areas such as roadsides, footpaths, and trails, picnic and camping sites, parks, recreational areas and around dwellings where these pests are present and create a nuisance or may act as a disease vector. DO NOT allow use of treated area during applications. For Fleas (out-of-doors; only) also treat sleeping quarters and other areas frequented by pets such as beneath porches and along fencing.

#### CHINCH BUGS

Apply 12 to 17 lbs./5,000 sq.ft. when insects appear or their damage is imminent. To prevent damage apply as soon as daily temperatures reach 80 degrees and repeat every 2 months. Use low rate for minimum infestations; higher rate for heavy infestations.

#### SOD WEBWORMS

For Sod Webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment. Treat in the spring or when insects first appear troublesome. Additional treatments at 30 day intervals may be needed for new infestations. Apply at rate of 2.5 lbs. per 1,000 sq.ft.

#### TURFGRASS WEEVIL

Use 5 lbs. per 1,000 sq.ft. Treat suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service.

#### WHITE GRUBS; CRANE FLY LARVAE

To control White Grubs (Black Turfgrass Ataenius, European Chafer, Southern Masked Chafer, Japanese Beetle and June Beetle Larvae), use 5 lbs to treat 1,000 sq.ft. After applications apply enough water to thoroughly wash the insecticide into the turf. For best results remove thatch first and treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service Specialist for best time to treat. European Crane Fly larvae will be controlled using 3.5 lbs per 1,000 sq.ft. or will be controlled simultaneously with the same application being applied for control of "White Grubs" i.e. (5 lbs./1,000 sq.ft.). Consult your Agricultural Agent for proper time to apply. For best results, first remove thatch. Water the granules into the soil.

#### BLUEGRASS BILLBUGS

Use 12.5 lbs./2,500 sq.ft. for Billbug grubs. Remove thatch before treatment. Wash granules into soil.

#### NET WEIGHT 10 POUNDS

EPA Reg. No. 59144-9 EPA Est. 59144-GA-1

**PROTEG**  
P.O. BOX 290 - MADISON, GA 30650

## IMPORTED FIRE ANT CONTROL

**MOUND TREATMENT:** For treatment of Fire Ant mounds occurring in lawns, turf and premise areas, treat individual ant mounds measuring from 3 to 12 inches in diameter by applying 4 tablespoonfuls (.8 oz.) of granules evenly in a circle around the outer edges (1 to 2 feet from the center) of the mound. Finish the treatment then by applying 7 tablespoonfuls (1.2 oz.) sprinkled evenly over the center of the mound. After application of the granules, gently sprinkle the treated area with a minimum of 1 quart of water per 6 inches of mound diameter. Apply in cool weather (65 to 80 degrees F) or in early morning or late evening. Best results will be obtained if mound is not disturbed after treatment thus allowing ants to come and go and to be exposed to the insecticide.

## FOR LAWNS, GOLF COURSES, AND OTHER ORNAMENTAL / RECREATIONAL TURF

Apply DURSIBAN 1% GRANULES uniformly to home lawns, golf courses, and other ornamental and recreational turf and non-crop land areas using any hand or power operated gravity or rotary type spreader designed for application of granules. Treat when insects first appear, using GRANULES at the rate of 2.5 lbs. per 1,000 sq.ft. or 100 lbs./acre for Surface Insects. For control of certain Soil Insects, increase this rate as indicated below or as outlined in separate paragraphs. For soil insects, after application, sprinkle\* the turf with 30 gallons of water per 1,000 sq.ft. (1300 gals./acre) to move the granules into the zone of insect infestation. \*Observe Watering limitation in paragraph for SOD WEBWORMS.

### FOR SURFACE INSECTS

For control of Ants, Armyworms (Beet, Fall & Yellowstriped), Brown Dog Ticks, Centipedes, Chinch Bugs, Cutworms, Crickets, Earwigs, Fiery Skipper, Fleas, Grasshoppers, Leafhoppers, Millipedes, Clover Mites, Sod Webworms (Lawn Moth), Sowbugs, Springtails, and Ticks use 2.5 lbs. per 1,000 sq.ft. The watering-in of the insecticide is not required for control of surface insects.

Area to be treated and pounds of Product to use.	Product to use.
400 sq.ft.	1 lb.
1,000 sq.ft.	2.5 lbs.
10,000 sq.ft.	25 lbs.
20,000 sq.ft.	50 lbs.

### For Soil Insects apply 5 lbs / 1,000 sq.ft.

Refer to specific paragraph for TURFGRASS WEEVIL, WHITE GRUBS, CRANE FLY (larvae) and BLUEGRASS BILLBUG for rates to control soil insects which feed below the soil surface. Observe proper Spreader Settings for these higher rates.

### PERIMETER TREATMENT INSECT CONTROL AROUND STRUCTURES

USE FOR CRAWLING INSECT CONTROL AROUND THE OUTSIDE OF HOMES, APARTMENTS, CONDOMINIUMS, WAREHOUSES, HOSPITALS, SCHOOLS, FOOD HANDLING ESTABLISHMENTS AND COMMERCIAL BUILDINGS

To protect against insects entering the indoors, a band of granules may be placed around the outside of buildings to kill Ants, Brown Dog Ticks, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, Springtails and Spiders before they attempt to enter. Use 1 pound to treat 400 sq.ft. (as a band 5 ft. x 80 ft. long) around the structure. Apply when insects have become troublesome or before they cause problems in the spring or early fall. Repeat one month later and then as needed for control but not more than once every 7 days. Keep children and pets off treated area until granules are sprinkled in and the area is dry.

## To Control Various Insects in Home Vegetable Gardens

Vegetables	Insects	**Rate To Use	Comments for Use.
Onions	Onion Maggot	1.3 oz. (6 tbsp) per 25 feet of row.	Apply once per year in furrow at planting time cover Granules and Onion sets with suitable soil.
Peanuts	Cutworms, Wireworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae.	2.75oz. to 5.00 oz. (10 to 20 tbsp) per 25 feet of row.	Apply in 6"-12" band over planted seed row. Lightly incorporate. - GR Apply at early flowering stage in 8"-12" band over row - GR. In a 10"-18" band over fruiting zone. Irrigation will enhance control. Maximum per year per 25 ft. row is 5 2/3 oz. Observe 21 day preharvest interval. Do not feed vines to meat or dairy animals.
Sunflowers	Pests controlled include: Cutworms.	3.25 oz. (12 tbsp) per 25 feet of row.	Apply in 7" band over planted seed row. Lightly incorporate granules into top 1 inch of soil. Only once per year.
Sweet Potatoes	Pests Controlled include: Wireworms, Sweet Potato Beetle, Flea Beetles.	1/2 lb./100 sq.ft.	Apply "pre-plant" broadcast over soil surface and incorporate to 4"-6" depth. Plant within 14 days. Make only one application per year. Pre-harvest interval is 125 days.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas, Turnips.	Root Maggot and other pests.	2 oz (6 to 8 tbsp) per 25 feet of row.	Apply in 4" band over row after seeds have been planted. Lightly incorporate into top 1/4"-1/2" of soil. Make only 1 application per year at planting time. Do not use rutabaga tops for food or feed purposes.
Radishes	Pests controlled include: Root Maggot	1.25 oz. (5 tbsp) per 25 feet of row.	Apply in furrow at planting time. • Make only (1) application / year. •
Sweet Corn	Wireworms, Seed Corn Maggots, Root Maggots, Seed Corn Beetles, Symphylans, Cutworms, Fire Ants, Billbugs, Northern, Western, Southern Corn Rootworm Larvae, Lesser Cornstalk Borer, Flea Beetle Larvae, European and Southeastern Corn Borer, Chinch Bugs, Grubs.	3.25 oz. to 4.75 oz. (12 to 18 tbsp) per 25 feet of row.	Apply in a 10" band over row and side of furrow and a 10" band along side of furrow. Cover seed with treated soil. Lightly incorporate into the top 1/2 to 1 inch of soil any granules on soil surface. Use highest rate, 4.75 oz. in soils containing over 10% organic matter. Make only 1 application per year at planting time.

\*One ounce of "Dursban 1% granules" is equivalent to 4 tablespoonfuls.



### SPREADER SETTINGS

SPREADER SETTINGS are approximate. Your spreader may need recalibrating due to age and use. Test proper working condition by placing 2 1/2 lbs. of granules into your spreader using the setting at the 5 lbs./1,000 sq.ft. rate. Apply over a pre-measured area of 500 sq.ft. (5 ft. x 100 ft. long). If the spreader contains granules at end of the test, open the spreader 1/2 to 3/4 setting; if granules have run-out before the end of test, close (shut) the spreader 1/2 to 3/4 setting. Repeat test if indicated. Insects may not be killed and control may be "spotty" if your spreader does not apply the exact recommended amount/1,000 sq.ft. as recommended!

SPREADER	Pounds of GRANULES to Use per 1,000 Sq.Ft.		
	2.25 - 2.50 lbs	3.5 lbs	5.0 lbs
Scott Lawn Cyclone B1	#4 #3.5	#5 #4.5	#6 #5.5

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. (59-9veg.2.p0512-04-98) This date 10-23-98.