

DEC 05 1995

Knox Fertilizer Company, Inc.  
c/o Mr. H. R. McLane  
H. R. McLane, Inc.  
7210 Red Road, Suite 206  
Miami, Florida 33143-5321

Subject: Deer Tick Control and Home Vegetable Gardens  
Dursban 1.14 Granules  
EPA Registration Number 8378-33  
Your Amendment Application Dated September 7, 1995

Dear Mr. McLane:

The amendment referred to above (replacement labeling sent October 3, 1995), submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (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. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

DHE

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide Rodenticide Branch  
Registration Division (7505C)

Enclosure

# Dursban® 1.14 Granules

Controls Insects in Ornamental & Recreational Turf - Perimeter Control of Ants, Fleas, and Ticks.  
Controls Fire Ants by Mound Treatment, in Potting Soils and in Nursery Containers  
For Control of Deer Ticks which transmit Lyme Disease - Use for Control of various Vegetable Insects.

**1 LB. TREATS UP TO 500 SQ.FT.**

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

**USE FOR CRAWLING INSECT CONTROL OUTSIDE OF HOMES - APARTMENTS - CONDOMINIUMS WAREHOUSES - HOSPITALS - SCHOOLS - OUTSIDE OF FOOD HANDLING ESTABLISHMENTS and COMMERCIAL BUILDINGS**

ACTIVE INGREDIENT:

Chlorpyrifos: [O,O,-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] 1.14%

INERT INGREDIENTS: 98.86%

Total 100.00%



**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

DURSBAN® is a Registered Trademark of DowElanco  
EPA Reg. No. 8378-33  
EPA Est. No. 8378-IN-1

### STATEMENTS OF PRACTICAL TREATMENT

**ORGANOPHOSPHATE** - 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, 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. Keep away from food, feedstuffs, and water supplies. When watering in the insecticide granules is directed, keep children and pets off treated area until this material is washed into the soil and the grass is dry.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and a Dust/Mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as its soil, or water, is: coveralls, waterproof gloves and shoes plus socks.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters. Use only as directed.

#### 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 from the use of this product may be disposed of on site or at an approved waste disposal facility.

### FIRE ANT CONTROL IN NURSERY, BENCH and POTTING SOIL

INTENDED PRIMARILY FOR WOODY ORNAMENTALS GROWN OUTDOORS IN CONTAINERS - Mix 2 1/4 lbs. of this product with 1 cubic yard of growing medium. Thoroughly blend granules into media using an appropriate mechanical mixer. Do not use plants which have been exposed to treated soil for food or feed purposes.

### FOR LAWNS, GOLF COURSES, SOD FARMS and OTHER ORNAMENTAL and RECREATIONAL TURF

Apply Dursban® 1.14 Granules uniformly to home lawns, golf courses, sod farms, 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 10 lbs. per 5,000 sq. ft. or 88 lbs. per acre for surface insects as listed on the front panel of this label. Increase this rate to 10 lbs. per 2,500 sq. ft. for control of soil insects as listed. For increased effectiveness against soil insects follow the granule application with a thorough watering to move the insecticide into the soil. It is not necessary to water-in the insecticide granules for control of surface insects. Repeat treatment as necessary. \*Observe delayed watering for Sod Webworms.

### USE AS A PERIMETER TREATMENT AROUND THE OUTSIDE OF HOMES & OTHER STRUCTURES

USE FOR CRAWLING INSECT CONTROL 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 to 2 pounds to treat 500 Sq. Ft. (as a band 5 ft. x 100 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.

### DEER TICK CONTROL (A Vector of Lyme Disease)

For control of ticks infesting areas around the outside of homes, in yard areas, along footpaths, and other areas of turf or vegetation frequented by humans and pets apply at the rate of 2 lbs. per 1,000 sq. ft. When working or playing out of doors in suspect areas protect against ticks by tucking pants 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 this application. Treat perimeter of house and yard by applying under shrubbery, in and around ground cover, and around and under patios. Treat edges or perimeter of yard where grass and other ground cover plants exist and other areas that appear likely to serve as harborage sites for

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

DEC 05 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

8378-33

**BEST COPY AVAILABLE**

**STATEMENTS OF PRACTICAL TREATMENT**

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Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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**STORAGE AND DISPOSAL**

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**SPECIFIC DIRECTIONS**

The following paragraphs correspond to insects followed by asterisk (\*) on the above front panel. Insects not followed by an Asterisk (\*) may be controlled by following the instructions for in the paragraph headed up FOR LAWNS, GOLF COURSES, SOD FARMS, ETC. Repeat treatments as needed for control.

**SURFACE INSECTS**

**TICKS and FLEAS:** Use 1 lb. per 500 sq. ft. (10 lb. per 5,000 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 are creating a nuisance. **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 2 to 3 lbs. per 1,000 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 lbs. per 1,000 sq. ft.

**SOIL INSECTS**

Observe proper spreader settings for these higher rates. **TURFGRASS WEEVIL:** Use 10 lbs. per 2,500 sq. ft. Treat suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service. **WHITE GRUB SPECIES:** - **CRANE FLY LARVAE:** To control White Grubs (Black Turfgrass Aegleis, European Chafer, Southern Masked Chafer, Japanese Beetle and June Beetle Larvae), use 10 lbs. to treat 2,500 sq. ft. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil. For best results remove thatch first & 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 10 lbs. per 3,335 sq. ft. or will be controlled simultaneously with the same application being applied for control of "White Grubs" i.e. (10 lbs. per 2,500 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 10 lbs. per 2,500 sq. ft. for Billbug grubs. Remove thatch before treatment. Wash granules into soil as for White Grubs.

**NON-AGRICULTURAL USES REQUIREMENTS**

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants only on farms, forests, nurseries, and sod farms or greenhouses. Wash thoroughly after handling and before eating or smoking. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and water supplies. Where watering-in is required, keep children and pets off treated areas until the grass is dry.

**IMPORTED FIRE ANT CONTROL MOUND TREATMENT**

To control Fire Ants in lawns, turf and premise areas, apply 2 ounces (approx. 10 level tablespoonfuls) evenly over and around each mound. After application of granules, gently sprinkle the treated area with a minimum of 1 quart water per 6 inches of mound diameter. For best results; do not disturb the mound before or during the application. Apply in cool weather (65-80 F); or in early morning or later evening. Treat new mounds as they appear.

NOTICE: Buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label. (83-33amd pm3 1/09-06-95)

**NET WEIGHT 10; 20 POUND(S)**  
**Knox Fertilizer Company, Inc.**  
**P.O. Box 248 - Knox, IN 46534**

**FIRE ANT CONTROL IN NURSERY, BENCH and POTTING SOIL**

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**\*\*SPREADER SETTINGS FOR APPLICATION TO LAWNS**

Make of Spreader	For Surface Insects		For Soil Insects	
	2 lbs./1,000 sq. ft.	4 lbs./1,000 Sq. Ft.	4 lbs./1,000 Sq. Ft.	8 lbs./2,000 Sq. Ft.
Ortho Drop #3000	6	7	5	7
Ortho Broadcast #4000	1 1/2	5	5	7
Scott #PF-1	5	6 1/2	6 1/2	8
Central	7	8	8	8
Jackson	5 1/2	6 1/2	6 1/2	8
Glorion	7	8	8	8
Sears	7	8	8	8
Cyclone	3 3/4	4 1/2	4 1/2	5
Scotts Rotary #ER-2	25 1/2	27 1/2	27 1/2	30
Whirlybird	3	3	3	3

For the Ortho Whirlybird use slightly rounded hopper holes 7 lbs. of product. For 2 lbs. rate set at 3 and make 2 passes over the 20' x 85' area. For the 4 lbs. rate set at 3 and make 4 passes over the same 20' x 85' area. For the Ortho broadcast spreader, make 2 passes (up and back) over the same 12 ft. wide section following the same wheel tracks. The light weight of the granules causes a heavier application over the 6 ft. wide swath to the left, so two tips (one up and one back) even out the application. Make next pass 12 ft. over from wheel track, and repeat process. Above spreader settings are approximate. Check your spreader on 100 sq. ft. and adjust to apply 3 1/4 oz. at the "2 lb." setting and 6 1/2 oz. at the "4 lb." setting. Rate of walk, moisture and spreader condition can vary the setting necessary to apply the correct amount.

**To Control Various Insects in Home Vegetable Gardens**

Vegetables	Insects	Rate To Use	Comments for Use
Onions	Onion Maggot	1 1/4 oz. per 25 feet of row.	Apply in furrow at planting time. Make only one application per year.
Peanuts	Cutworms, Wireworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae.	2 1/2 oz. to 6 1/3 oz. per 25 feet of row.	Apply in 6"-12" band over planted seed row. Lightly incorporate. OR Apply at early flowering stage in 6"-12" band over row. OR In a 10"-18" band over fruiting zone irrigation will enhance control. Maximum / year / 25 ft. row is 11 1/3 oz. Observe 21 day preharvest interval. Do not feed vines to meat or dairy animals.
Sunflowers	Pests controlled include: Cutworms.	2 3/4 oz. per 25 feet of row.	Apply in 7" band over planted seed row. Lightly incorporate into soil. Make only one application per year.
Sweet Potatoes	Pests Controlled include: Wireworms, Sweet Potato Beetle, Flea Beetles.	1/2 lb / 100 sq. ft.	Apply broadcast over soil surface and incorporate to 4"-6" depth. Plant within 14 days. Make only one application per year. Preharvest interval is 125 days of treatment.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas, Turnips.	Root Maggot and other pests.	1 2/3 oz. to 3 oz. per 25 feet of row	Apply in a 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 1/4 oz. per 25 feet of row.	Apply in furrow at planting time. Make only (1) application / year.
Sweet Corn and Popcorn	Wireworms, Seed Corn Maggots, Root Maggots, Seed Corn Beetles, Symphylans, Cutworms, Fire Ants, Billbugs, Northern, Western, and Southern Corn Rootworm Larvae, Lesser Cornstalk Borer, Flea Beetle Larvae, European and Southern Corn Borer, Chinch Bug, Grubs.	2 3/4 oz. to 4 1/4 oz. per 25 feet of row.	Apply in a 10" band over uncovered seed in furrow and a 10" band along side of furrow. Cover seed with treated soil. Lightly incorporate any granules on soil surface. Use highest rate in soils containing over 10% organic matter. Make only 1 application per year at planting time.

(1 ounce = 8 tablespoonfuls)

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