

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: Revised Labeling--Addition of Deer Tick  
Control and Home Vegetable Gardens  
Dursban 50 Granular Insecticide  
EPA Registration Number 8378-28  
Your Amendment Application Dated September 7, 1995

Dear Mr. McLane:

The amendment referred to above, 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.

Please refer to the Agency letter of January 4, 1994. In the Confidential Statement of Formula, dated December 10, 1993, showing an alternate formula for this product, one of the

**BEST COPY AVAILABLE**

284

components is Aromatic Solvent D-100? What is the purpose of this component? Does it remain part of the formulation, or is it lost by evaporation during processing? Please submit a Material Safety Data Sheet and the chemical name, percent present, and the Chemical Abstracts Service (CAS) Registry Number for each component in the solvent.

Because of the importance of this matter, we would like to have your reply within 75 days. If you have any questions concerning this letter, please contact Carl Andreasen at (703) 305-5417.

Sincerely yours,

DHE

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

Enclosure

**BEST COPY AVAILABLE**

# DURSBAN® 50 GRANULAR INSECTICIDE

For Control of Various Insects Infesting Lawns and other Ornamental Turf Areas, Flower Beds, under Shrubbery, Buildings, and Certain Vegetable crops.

**KILLS SOD WEBWORMS, WHITE GRUBS, ANTS, FLEAS, BROWN DOG TICKS, CRICKETS, CHINCH BUGS, CUTWORMS, DEER TICKS, EARWIGS, MOLE CRICKETS, SOWBUGS, ARMYWORMS, EUROPEAN CRANE FLY LARVAE, HYPERODES (TURFGRASS) WEEVIL.**

**For Premise Insect Control and for Control of Deer Ticks which vector Lyme Disease.**

ACTIVE INGREDIENT: Chlorpyrifos:  
[O,O,-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] - 0.50%  
INERT INGREDIENTS: - - - - - 99.50%  
Total 100.00%

*Not for use on plants being grown for sale or other commercial use, such as sod, or for commercial seed production, or for research purposes. For use on plants being grown in ornamental gardens, home vegetable gardens, parks, golf courses or lawns and grounds. Do not use this product indoors.*

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### FIRST AID - STATEMENTS OF PRACTICAL TREATMENT

**If Swallowed:** Call a physician or Poison Control Center. 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. **If Inhaled:** Remove victim to fresh air. If symptoms of cholinesterase inhibition appear and get medical attention immediately. **If On Skin:** Wash thoroughly with soap and water. **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, by injection only, is antidote.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** May be harmful if swallowed. Do not take internally. Avoid inhaling dust. Avoid eye contact. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and domestic water supplies. When watering-in of the insecticide is directed keep children and pets off treated areas until grass is dry.

##### 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 apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

#### DIRECTIONS FOR USE

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

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original 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.

## LAWNS and ORNAMENTAL TURF Surface Feeding Insects

## Deer Tick Control Around the Property (A Vector of Lyme Disease)

For control of ticks infesting areas around houses and in yard areas apply at the rate of 5 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 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 grass 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. For key months for deer tick control in your geographic area, contact your local extension service.

#### KNOW YOUR SPREADER

The following spreader settings are offered for use with new equipment. Your used spreader may need calibrating. Proper application is based on the spreaders condition with regard to age and use, your walking speed and the evenness of the terrain. If you have reason to believe that your spreader is not calibrated correctly test apply by placing the amount for 500 sq. ft. into your spreader and apply to your pre-measured 500 sq. ft. (5 ft. wide by 100 ft. long). Faulty and/or erratic application will result in poor insect control!

#### SPREADER SETTINGS

Spreader	Amt. to Apply per 1,000 sq. ft.	
	4 1/2 lbs.	9 lbs.
Scott Drop	5	7
Cyclone B-1	4 1/2	5

#### CONDITIONS OF SALE AND WARRANTY

Knox warrants that the product conforms to its chemical description and is reasonably effective for the control of the insects named in accordance with label directions.

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.

8378-2.8

BEST COPY AVAILABLE

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

**FIRST AID - STATEMENTS OF PRACTICAL TREATMENT**

**If Swallowed:** Call a physician or Poison Control Center. 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. **If Inhaled:** Remove victim to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately. **If On Skin:** Wash thoroughly with soap and water. **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, by injection only, is antidote.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** May be harmful if swallowed. Do not take internally. Avoid inhaling dust. Avoid eye contact. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and domestic water supplies. When watering-in of the insecticide is directed keep children and pets off treated areas until grass is dry.

**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 apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original 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.

**LAWNS and ORNAMENTAL TURF Surface Feeding Insects**

For control of Chinch Bugs, Sod Webworms (Lawn Moth), Ants, Fleas, Armyworms, Brown Dog Ticks, Crickets, Cutworms, Earwigs, Mole Crickets, Sowbugs and Millipedes apply 4.5 lb. to treat 1,000 Sq. Ft. (200 lbs./Acre). Refer to Spreader Settings. Treat in the spring or when insects first appear troublesome and repeat as needed for control. Additional treatments at 30 day intervals may be needed for season long control of Sod Webworms. Watering-in of the insecticide is not required to obtain control of these surface insects.

**For Root Feeding Insects**

For Billbug Larvae, and the "White Grub" larvae of Japanese Beetle, Black Turfgrass Aeneid, European Chafer, Southern Chafer and Hyperodes Weevil apply 9 lbs. to treat 1,000 Sq. Ft. of lawn. This treatment will also control Mole Crickets. European Crane Fly larvae feeding in western states turfgrass will be controlled at this same rate, (9 lbs./ 1,000 Sq. Ft.), with an individual application or if present, simultaneously with the same application being applied for control of "White Grubs". Consult your Agricultural Extension Agent for proper time to apply. For the Hyperodes (Turfgrass) Weevil apply in Mid-April and again in Mid-May using 9 lbs. / 1,000 Sq. Ft.

Apply uniformly over the area. For increased effectiveness follow the application with a thorough watering to wash the insecticide into the soil where insects are feeding. Do not allow children or pets on treated areas until the grass is dry. For best control apply when the "grubs" are young and actively feeding near the soil surface in mid July and early August.

**Fire Ant Control Around the Yard**

For the control of Imported Fire Ants by individual ant mound treatment apply 6 level tablespoonfuls (1.5 ounce) of granules evenly in a circle around the outer edges (1 to 2 feet from center) of mounds measuring from 3 to 12 inches in diameter. Finish the treatment then by applying 4 level tablespoonfuls (1 ounce) sprinkled over the center of the mound. 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 treated area. Apply the granules when Imported Fire Ants have become a nuisance and treat new mounds as they appear.

**Control of Home Invading Pests in Flower & Shrubbery Beds and Around the Outside of Home Foundations**

For control of insect pests that may gain entrance to the home from flower & shrubbery beds and around the foundation this product may be applied as a 5 foot band adjacent to the home foundation and to the soil surface of flower & shrubbery beds at the rate of 5 lbs. per 1,000 sq. ft. (5 ft. by 200 ft.). Controls Ants, Boxelder Bugs, Centipedes, Cockroaches, Crickets, Earwigs, Fleas, Scorpions, Silverfish, Sowbugs, Spiders (including Black Widow Spiders), Springtails, and Ticks. Apply when insects have become troublesome or before they cause problems in the spring or early fall. Repeat as needed for control. The watering-in of the insecticide is not required for control of these surface insects.

**Deer Tick Control Around the Property (A Vector of Lyme Disease)**

For control of ticks infesting areas around houses and in yard areas apply at the rate of 5 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 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 grass 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. For key months for deer tick control in your geographic area, contact your local extension service.

**KNOW YOUR SPREADER**

The following spreader settings are offered for use with new equipment. Your used spreader may need calibrating. Proper application is based on the spreader condition with regard to age and use, your walking speed and the evenness of the terrain. If you have reason to believe that your spreader is not calibrated correctly test apply by placing the amount for 500 sq. ft. into your spreader and apply to your pre-measured 500 sq. ft. (5 ft. wide by 100 ft. long). Faulty and/or erratic application will result in poor insect control.

Spreader	Amt. to Apply per 1,000 sq. ft.	
	4 1/2 lbs.	9 lbs.
Scott Drop	5	7
Cyclone B-1	4 1/2	5

**CONDITIONS OF SALE AND WARRANTY**

Knox warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. KNOX MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of KNOX and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL KNOX OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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

Vegetables	Insects	Rate To Use	Comments for Use.
Onions	Onion Maggot	2 2/3 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.	5 1/2 oz. to 11 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 1 year / 25 ft. row is 11 1/3 oz. Observe 21 day pre-harvest interval. Do not feed living to, near or dairy animals.
Sunflowers	Pests controlled include: Cutworms	6 1/2 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 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.	4 oz. to 7 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.	2 1/2 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 Bugs, Grubs.	6 1/2 oz. to 11 1/3 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 high soil rate in soils containing over 10% organic matter. Make only 1 application per year at planting time.

(83-28AMD pm506-06-95) \*One ounce (by weight) of this product is equivalent to 4 to 5 level tablespoonfuls.

EPA REG. NO. 8378-28 EPA EST. NO. 8378-IN-1  
NET WEIGHT 25 POUNDS (1 lb. 4 lb. 50 lb.)

**KNOX FERTILIZER COMPANY, INC.**

P.O. Box 248 - KNOX, IN 46534 U.S.A.

**BEST COPY AVAILABLE**