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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
2.32 Dursban Granules
EPA Registration Number 8378-34
Your Amendment Application Dated October 3, 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.

Sincerely yours,

DHE

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

Enclosure

2.32 Dursban® Granules ^{2 of 4}

For Commercial Insect Control in Ornamental & Recreational Turf - Controls Ants, Fleas, Ticks, and Chiggers - Controls Fire Ants - Also For Treating Potting Soils and Container Grown Nursery Stock
1 POUND TREATS UP TO 1,000 SQ.FT.

Controls Ants, Armyworms (Beet, Fall, Yellowstriped), Brown Dog Ticks*, Centipedes, Chiggers*, Chinch Bugs*, Clover Mites, Cutworms, Crickets, Earwigs, European Crane Fly larvae*, Flery Skipper, Fleas*, Grasshoppers, Leafhoppers, Millipedes, 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

RESIDUAL INSECT CONTROL FOR PARKS - GOLF COURSES - ATHLETIC FIELDS - HOME LAWNS FOR OUTSIDE OF HOMES - APARTMENTS - CONDOMINIUMS - WAREHOUSES - HOSPITALS SCHOOLS - FOOD HANDLING ESTABLISHMENTS - COMMERCIAL AND OFFICE BUILDINGS

ACTIVE INGREDIENT:

Chlorpyrifos: [O,O,-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] . . . 2.32%

INERT INGREDIENTS: . . . 97.68%

Total 100.00%



**FIRE
ANTS**

DURSBAN® is a Registered
Trademark of DowElanco

EPA Reg. No. 8378-34

**KEEP OUT OF REACH OF CHILDREN
CAUTION**



TICKS

EPA Est. No. 8378-IN-1

ANAPHYLACTIC: IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by running 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. Where watering-in is required keep children and pets off treated areas until 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, notification, and emergency assistance. It also contains specific instructions and provisions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. 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 plants, 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 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 reuse empty container. Wrap container and put in trash.

*COMMERCIAL CONTROL

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 USE: ON LAWNS, etc. Repeat treatments as needed for control.

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 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.

CHIGGERS, TICKS, & FLEAS

Use 1 lb. per 1,000 sq. ft. (10 lb. per 10,000 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 1 to 1 1/2 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 1 lb. per 1,000 sq. ft.

TURFGRASS WEEVIL

Use 5 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 Aphid, European Chaffer, Southern Masked Chaffer, Japanese Beetle and June Beetle Larvae), use 10 lbs. to treat 5,000 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 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 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 5,000 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 10 lbs. per 5,000 sq. ft. for Billbug grubs. Remove thatch before treatment. Wash granules into soil as for White Grubs.

IMPORTED FIRE ANT CONTROL MOUND TREATMENT

To control Fire Ants in lawns, turf and premise areas, apply 2 ounces (approx. 8 to 10 level tablespoonfuls) evenly over and around each mound. 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.

NET WEIGHT 1; (10; 20; 40) POUNDS

Knox Fertilizer Company, Inc.

P.O. Box 248 - Knox, IN 46534

FIRE ANTS IN NURSERY, BENCH & POTTING SOILS
INTENDED PRIMARILY FOR WOODY ORNAMENTALS TO BE GROWN OUTDOORS IN CONTAINERS. Mix 1 lb. + 2 oz. (18 ounces) of this product with 1 cubic yard of growing medium. Thoroughly blend granules into media using an appropriate mechanical mixer. Wear dust mask, body covering clothing and chemical resistant gloves during this operation. Do not use plants which have been exposed to treated soil for food or feed purposes. For 10" or 12" potted plants use 4 tbsp. Mix into soil surface.

FOR USE ON LAWNS, PARKS, GOLF COURSES, SOD FARMS, PLAYGROUNDS AND ALL OTHER ORNAMENTAL and RECREATIONAL TURF AREAS

Apply 2.32 Dursban® Granules uniformly to home lawns, golf courses, parks, playgrounds, sod farms, and any 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.

SURFACE INSECTS

For Surface Insects: Ants, Armyworms (Beet, Fall, Yellow-striped) Ticks, Centipedes, Cutworms, Crickets, Earwigs, Flary Skipper, Grasshoppers, Leafhoppers, Millipedes, Clover Mites, Sowbugs, and Springtails, use 1 lb. per 1,000 sq. ft. (44 lbs. per acre). Treat when insects first appear.

SOIL INSECTS

For Soil Insects as listed on this label increase the rate to 2 lbs. per 1,000 sq. ft. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil. Repeat treatment as necessary.

SPREADER SETTINGS

Spreader	1 lb./1,000 sq. ft.	2 lbs./1,000 Sq. Ft.
Ortho Broadcast #4000	1	1 1/2
Cyclone	3	3 1/2
Scotts Rotary #ER-2	25 1/2	27 1/2

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 8 ft. wide swath to the left, so two trips (one up and one back) covers out the application. Make next pass 12 ft. over from wheel tracks, and repeat process. Above spreader settings are approximate. Rate of walk, moisture and spreader condition can vary the setting necessary to apply the correct amount.

INSECT CONTROL USING BAND AND PERIMETER TREATMENT AROUND THE OUTSIDE OF FOOD HANDLING ESTABLISHMENTS, HOSPITALS, HOMES, SCHOOLS, AND COMMERCIAL 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 pound to treat 500 Sq. Ft. (as a band 3 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 1 lb. 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 on 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 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. Do not allow use of this control treatment past year completed.

To Control Various Insects in Home Vegetable Gardens

Vegetables	Insects	*Rate To Use	*Comments for Use.
Onions	Onion Maggot	1 oz. (5 tbsp.) per 25 feet of row.	Apply in furrow at planting time. Make only one application per year. Apply in 6"-12" band over planted seed row. Lightly incorporate, or
Peanuts	Cutworms, Wireworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae.	1 1/4 oz. to 2 1/2 oz. per 25 feet of row.	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 preharvest interval. Do not feed vines to meat or dairy animals.
Sunflowers	Pests controlled include: Cutworms.	1 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.	2 lb/1,000 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 oz. to 2 oz. (5-10 tbsp) 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 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, Symphylaena, 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.	1 1/2 oz. to 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 highest rate in soils containing over 10% organic matter. Make only 1 application per year at planting time.

OTICE: 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. (1 ounce = 5 tablespoonfuls) 3-34AMD.PM4 (10-02-95)

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