



Reg # 32802-22

PM-19

192

DURSBAN 2.32G Insecticide

Turf Insect Control SURFACE INSECT CONTROL

For control of Ants, armyworms, Bluegrass Billbugs, Centipedes, Chinch Bugs, Clover Mites, Crickets, Earwigs, Fleas, Grasshoppers, Millipedes, Sod Webworms (lawn moth), Sowbugs, Springtails, Ticks and Turfgrass Weevil.

SOIL FEEDING INSECTS

For the control of White Grub larvae of Black Turfgrass Ateletus, European Chafer, Japanese Beetle, Southern Masked Chafer and Hyperodes Weevil.

EUROPEAN CRANE FLY LARVAE For control of European Crane Fly larvae (Leatherjackets) in turf.

CONTAINERIZED AND/OR POTTED PLANT INSECT CONTROL

For treatment of containerized and/or potted plants for control of Imported Fire Ants, Ants, Armyworms, Beetles, Boxelder Bugs, Cutworms, Sowbugs, Springtails, and similar insect pests.

FIRE ANT CONTROL

For the treatment of Imported Fire Ant at their mounds.

BUILDING PERIMETER INSECT CONTROL

For control of Ants, Centipedes, Cockroaches, Crickets, Earwigs, Fleas, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks and other similar insects around building perimeters to prevent their entry into the premises.

DEER TICK CONTROL

For the control of Deer Ticks, Rocky Mountain Wood Ticks (Bear Ticks), Black Legged Tick (Ixodes spp.) and Lone Star Tick (Amblyomma spp.) which can transmit Lyme Disease.

ACTIVE INGREDIENT:

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

INERT INGREDIENTS: 97.68%
Total 100.00%

DURSBAN® is a Reg. Trademark of The DowElanco
EPA REG. NO. 32802-22 EPA EST. NO. 32802-WI-1 MO-1

The first letter of code indicates location of manufacturing plant.

NET WEIGHT 50 POUNDS

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention. **IF ON SKIN:** Remove contaminated clothing and wash affected area with soap and water. Wash clothing before reuse. **IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention immediately. **NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: May be harmful if swallowed. Do not take internally. Do not breathe dust. Avoid contact with eyes, skin or clothing. Wash contaminated clothing before reuse. Wash thoroughly after handling and before eating or smoking. Keep children and pets off treated areas until this material is washed into the soil and the grass is dry. Do not contaminated feed or foodstuffs.

ENVIRONMENTAL HAZARDS

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

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.

TURF INSECT CONTROL SURFACE FEEDING INSECTS

For control of Ants, Armyworms, Bluegrass Billbugs, Centipedes, Chinch Bugs, Clover Mites, Crickets, Earwigs, Fleas, Grasshoppers, Millipedes, Sod Webworms, (lawn moth), Sowbugs, Springtails, and Ticks apply at the rate of 1 lb. per 1,000 sq.ft. of turf. Refer to Spreader Settings Chart for suggested spreader settings. Make sure your spreader is calibrated for this product before application.

Treat in the spring (mid-May to June) or when your local conditions indicate a surface insect infestation. Repeat as the program indicates or as needed for control. Sod Webworms may have 3 to 4 generations of larvae per year, requiring additional treatments at 30 to 40 day intervals. It is not necessary to water-in the insecticide for control of surface insects.

ROOT FEEDING INSECTS

For the control of White Grub larvae of Black Turfgrass Ateletus, European Chafer, Japanese Beetle, Southern Masked Chafer and Hyperodes Weevil apply at the rate of 2 lbs. per 1,000 sq.ft. of turf. Refer to Spreader Settings Chart for suggested spreader settings. Make sure your spreader is calibrated for this product before application.

Apply when insects are young and actively feeding near the soil surface in mid-July and early August or when local conditions indicate a soil feeding insect problem. Consult your local Extension Service for when to treat in your area.

For Soil insects irrigate the turf (by lawn care applicator or customer) with 1/4 to 1/2 inch of moisture after treatment to place the insecticide into the root zone where the insects are feeding. For best control, irrigate the area to be treated both before and after application of this product. Do not allow children or pets on treated area until insecticide has been watered into the soil and the grass is dry.

EUROPEAN CRANE FLY LARVAE (LEATHERJACKETS)

For specific control of European Crane Fly larvae apply 1.5 lbs. of this product to 1,000 sq.ft. of turf. Refer to Spreader Settings Chart for suggested spreader settings. Make sure your spreader is calibrated for this product before application. The larvae will also be con-

IMPORTED FIRE ANT CONTROL

For the control of Imported Fire Ants by individual ant mound treatment apply 4 level tablespoonfuls (2/3 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 2 level tablespoonfuls (1/3 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 reapply as needed but not more than once every 7 days.

BUILDING PERIMETER INSECT CONTROL

For control of Ants, Centipedes, Cockroaches, Crickets, Earwigs, Fleas, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks and other similar insect pests apply at the rate of 1 pound per 1,000 sq.ft. of building perimeter (5 to 10 feet from foundation). Apply when insect have become troublesome or before they cause problems in the spring or early fall. Repeat as needed for control. Do not allow children or pets on treated area.

DEER TICK CONTROL

For control of Deer Ticks, Rocky Mountain Wood Ticks (Bear Tick), Black Legged Tick (Ixodes spp.) and Lone Star Tick (Amblyomma spp.) which can transmit LYME Disease apply 1 lb. per 1,000 sq.ft. of turf. The species of ticks responsible for transmitting Lyme Disease is the Northern Deer Tick (Ixodes dammini) in the eastern United States and to a lesser extent, the Black Legged Tick (Ixodes pacificus) in the western United States. The Northern Deer Tick is the species most commonly associated with transmitting Lyme Disease. It is a very small multiple host species with a two year life cycle. Eggs are deposited in the spring by over-wintered adults. The larval ticks hatch and wait underneath leaf litter until a small host, such as a bird or mouse, is available. Having obtained a blood meal from this host, the larvae over-winter and develop into nymphs the following spring. Nymphs, which are controlled with a May/June application, rest in leaf litter or vegetation and attach to new host

For control of Deer Ticks, Rocky Mountain Wood Ticks (Bear Tick), Black Legged Tick (Ixodes spp.) and Lone Star Tick (Amblyomma spp.) which transmit Lyme Disease apply to lawns, recreational turf areas, golf courses, sports fields, parks, cemeteries, wooded areas, campsites, shrub and ornamental beds and other similar areas at the rate of 4 lbs. per 1,000 sq.ft. Begin application in the later spring or early summer (May or June). Continue at 3 to 4 week intervals during the tick season, as ticks may be reintroduced from surrounding areas by domestic animals and wildlife. Treat entire turf area, shrub beds, ornamental plantings, wooded areas and around outside perimeters of homes/buildings where exposure to ticks may occur.

CONTAINERIZED AND/OR POTTED PLANT INSECT CONTROL

For control of Imported Fire Ants, Ants, Armyworms, Beetles, Boxelder Bugs, Cutworms, Sowbugs, Springtails, and other similar insect pests in containers and pots for the propagation and shipping of ornamental plants.

Thoroughly mix 1 pound (16 ounces) of Dursban 2.32G insecticide with one cubic yard (27 cubic feet) of the appropriate soil mix, using suitable mixing equipment to give a uniform blend of granules and soil mix.

Wear eye protection and chemical resistant gloves when handling the resulting soil mix. Do not use treated soil mixture for growing of food crops.

This product can also be applied to the soil surface of outdoor potted plants. For best insect control lightly water into the soil.

POT SIZE	AMOUNT TO APPLY
4 inch	1/4 oz. = 1 tbsp.
6 inch	1/3 oz. = 1 1/2 tbsp.
8 inch	1/2 oz. = 2 1/4 tbsp.
10 inch	3/4 oz. = 3 3/4 tbsp.
12 inch	1 1/4 oz. = 6 tbsp.

SPREADER INSTRUCTIONS

The following spreader settings are for use with new equipment. Always calibrate your spreader before applying product. Actual application rates will depend on the spreader's condition with regard to size and use. Use

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Use only by application to an arthropod. See side/back panel for additional precautionary statements.

FIRE ANT CONTROL

For the treatment of Imported Fire Ant at their mounds.

BUILDING PERIMETER INSECT CONTROL

For control of Ants, Centipedes, Cockroaches, Crickets, Earwigs, Fleas, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks and other similar insects around building perimeters to prevent their entry into the premises.

DEER TICK CONTROL

For the control of Deer Ticks, Rocky Mountain Wood Ticks (Bear Ticks), Black Legged Tick (Ixodes spp.) and Lone Star Tick (Amblyomma spp.) which can transmit Lyme

ACCEPTED
JAN 27 1994
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 32802-22

nyl O(3,5,6 trichloro-
 dyl) phosphorothioate]. 2.32%
 97.68%
 Total 100.00%
 Trademark of The DowElanco
 EPA EST. NO. 32802-WI-1 MO-1
 See location of manufacturing plant.
50 POUNDS

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: May be harmful if swallowed. Do not take internally. Do not breathe dust. Avoid contact with eyes, skin or clothing. Wash contaminated clothing before reuse. Wash thoroughly after handling and before eating or smoking. Keep children and pets off treated areas until this material is washed into the soil and the grass is dry. Do not contaminate feed or foodstuffs.
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TURF INSECT CONTROL SURFACE FEEDING INSECTS

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Treat in the spring (mid-May to June) or when your local conditions indicate a surface insect infestation. Repeat as the program indicates or as needed for control. Sod Webworms may have 3 to 4 generations of larvae per year, requiring additional treatments at 7 to 40 day intervals. It is not necessary to water-in the insecticide for control of surface insects.

ROOT FEEDING INSECTS

For the control of White Grub larvae of Black Turfgrass Attenius, European Chafer, Japanese Beetle, Southern Masked Chafer and Hyperodes Weevil apply at the rate of 2 lbs. per 1,000 sq.ft. of turf. Refer to Spreader Settings Chart for suggested spreader settings. Make sure your spreader is calibrated for this product before application.

Apply when insects are young and actively feeding near the soil surface in mid-July and early August or when local conditions indicate a soil feeding insect problem. Consult you local Extension Service for when to treat in your area.

For Soil Insects irrigate the turf (by lawn care applicator or customer) with 1/4 to 1/2 inch of moisture after treatment to place the insecticide into the root zone where the insects are feeding. For best control, irrigate the area to be treated both before and after application of this product. Do not allow children or pets on treated area until insecticide has been watered into the soil and the grass is dry.

EUROPEAN CRANE FLY LARVAE (LEATHER JACKETS)

For specific control of European Crane Fly larvae apply 1.5 lbs. of this product to 1,000 sq.ft. of turf. Refer to Spreader Settings Chart for suggested spreader settings. Make sure your spreader is calibrated for this product before application. The larvae will also be controlled simultaneously with an application for surface or root feeding insects. Consult you local Extension Service for when to treat in your area.

Irrigate the turf (by lawn care applicator or customer) with 1/4 to 1/2 inch of moisture after treatment to place the insecticide into the root zone where the insects are feeding.

Do not allow children or pets on treated area until insecticide has been watered into the soil and the grass is dry.

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.

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The Northern Deer Tick is the species most commonly associated with transmitting Lyme Disease. It is a very small multiple host species with a two year life cycle. Eggs are deposited in the spring by over-wintered adults. The larval ticks hatch and wait underneath leaf litter until a small host, such as a bird or mouse, is available. Having obtained a blood meal from this host, the larvae over-winter and develop into nymphs the following spring. Nymphs, which are controlled with a May/June application, rest in leaf litter or vegetation and attach to any host, such as a dog, deer, mouse, or human. After a blood meal, nymphs leave the host and molt into adults. Adults then mate and deposit eggs in the leaf litter. Adult ticks prefer to stay on small vegetation matter, better, enabling them to attach to a host.

Both nymphs and adults can transmit the disease pathogen for Lyme Disease (spirochete bacterium) if the disease was obtained from the host during the first blood meal as a larvae. Symptoms of the disease do not appear in carrier hosts such as mice, deer or other wildlife animals. Research shows that from 25 to 50 percent of a deer tick population may carry the pathogen.

For control of Deer Ticks, Rocky Mountain Wood Ticks (Bear Tick), Black Legged Tick (Ixodes spp.) and Lone Star Tick (Amblyomma spp.) which transmit Lyme Disease apply to lawns, recreational turf areas, golf courses, sports fields, parks, cemeteries, wooded areas, campsites, shrub and ornamental beds and other similar areas at the rate of 4 lbs. per 1,000 sq.ft. Begin application in the later spring or early summer (May or June). Continue at 3 to 4 week intervals during the tick season, as ticks may be reintroduced from surrounding areas by domestic animals and wildlife. Treat entire turf area, shrub beds, ornamental plantings, wooded areas and around outside perimeters of homes/buildings where exposure to ticks may occur.

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SPREADER INSTRUCTIONS

The following spreader settings are for use with new equipment. Always calibrate your spreader before applying product. Actual application rates will depend on the spreader's condition with regard to age and use, your walking speed and the evenness of the terrain, your spreading equipment will require adjustments. To calibrate, test apply by placing the amount for 500 sq.ft. into your spreader and apply to a pre-measured 500 sq.ft. area then adjust according to your spreader manual.

SPREADER	SPREADER SETTINGS/1,000 SQ.FT.		
	1.0#/1,000	1.5#/1,000	2.0#/1,000
SPYKER PRO	3.4 to 3.6	3.4	4.0 to 4.2
SCOTT'S R7X	F to G	G to H	H to I
LESCO B'CAST	F to G	G to H	H to I
PRIZE CB-85	4.0 to 4.2	4.3 to 4.4	4.5 to 4.7
CBT-85	4.0 to 4.2	4.2 to 4.4	4.5 to 4.7
CYCLONE PRO	3.0 to 3.5	4.0 to 4.2	4.4 to 4.6



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HOWARD JOHNSON'S ENTERPRISES, INC.
MILWAUKEE, WI 53201 U.S.A.