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**DURSBAN 100 GRANULES**

**LAWN & TURF INSECT CONTROL**

FOR LAWNS & ORNAMENTAL TURF AREAS, FLOWER BEDS AND UNDER SHRUBBERY

AND FOR HOME VEGETABLE GARDENS

KILLS INSECTS WHICH DAMAGE LAWNS AND GARDENS

CONTROLS SURFACE FEEDING INSECTS AND ROOT FEEDING INSECTS

FOR PERIMETER TREATMENT AROUND BUILDINGS AND HOMES

CREATES A BARRIER AGAINST INVADING INSECTS

STOPS BUGS BEFORE THEY COME INSIDE

FOR CONTROL OF IMPORTED FIRE ANTS

READY-TO-USE GRANULES EASY TO USE GRANULES

CONTAINS DURSBAN INSECTICIDE

FOR LONG LASTING INSECT CONTROL

USE THROUGHOUT THE SEASON

**FIVE INGREDIENT:**

Chlorpyrifos: [O,O-Diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate] .....	1.0%
INERT INGREDIENTS: .....	99.0%
TOTAL: .....	100.0%

EPA Reg. No. 32802-49

EPA Est. No. 32802-WI-1 (A), 32802-MO-1 (B)

First letter of bag code shows establishment where manufactured.  
 Manufactured by:

**HOWARD JOHNSON'S ENTERPRISES, INC.**  
 700 W. Virginia Street, Milwaukee, WI 53204-1548

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION:** See (back or side) panel for additional precautionary statements and first aid information

**NET WEIGHT:** 5 lb (or 10, 15, 18, 20, 25, 36, 40 or 50 lb)

**PRECAUTIONARY STATEMENTS**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** May be harmful if swallowed. Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs and domestic water supplies.

**FIRST AID**

**IF SWALLOWED:** Call a physician or poison control center. Induce vomiting by giving person 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 INHALED:** Remove person to fresh air. Apply artificial respiration if indicated. Get medical attention immediately.

**IF ON SKIN:** Remove contaminated clothing and wash thoroughly with soap and water.

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists. Note to Physician: This insecticide is a cholinesterase inhibitor. Treat symptomatically. Atropine, by injection only, is an antidote.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, birds and other wildlife. Do not apply when weather conditions favor drift from treated area. Do not feed treated grass clippings to livestock. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

(Alternate statement for household use packages:  
 Do not apply directly to water.)

**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 plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. Do not use this product indoors.

**FOR LAWNS AND ORNAMENTAL TURF:** Apply insecticide granules uniformly over the lawn, using any spreader designed for application of granular materials. Contact your Agricultural Extension Service for the best time to treat for specific insect pests in your area.

**For control of surface feeding insects:**  
 Controls ants, armyworms, beetles, billbugs, boxelder bugs, brown dog ticks, chiggers, chinch bugs, clover mites, crickets, cutworms, deer ticks, earwigs, fleas, grasshoppers, millipedes, sowbugs (pillbugs), sod webworms (lawn moth), spiders. Apply 2.5 pounds per 1000 square feet (109 pounds per acre). Treat in spring or as soon as insects become a problem, and repeat as needed for control. For complete control of fleas and ticks, pets should be treated with an EPA-approved product labeled for direct use on pets.

**For control of root feeding insects:**  
 To control white grubs (larvae of Japanese beetle, black turfgrass ataenius, European chafer, southern masked chafer): Apply 5 pounds per 1000 square feet (218 pounds per acre). For best results, water treated area thoroughly (1/2 to 1 inch of water) to move insecticide into the soil. For heavy grub infestations, a repeat treatment of 5 pounds per 1000 square feet (218 pounds per acre) may be made 7 to 14 days after initial treatment. Treat when grubs are young and actively feeding near soil surface in mid-July and early August.

**To control turfgrass weevil (larvae of Hyperodes weevil):** Apply 5 pounds per 1000 square feet (218 pounds per acre) in mid-April and again in mid-May at the same rate as above.

**To control european crane fly (leather jacket):** Apply 3.5 pounds per 1000 square feet (153 pounds per acre). For best results, water treated area thoroughly (1/2 to 1 inch of water) to move insecticide into the soil.

**To control fire ants (by individual mound treatment):** Apply 2 ounces (4 tablespoons) per active mound. Apply granules evenly over the mound and out approximately 2 feet surrounding the mound. Apply in cool weather (65-80°F), or in early morning or late evening. Avoid disturbing the mound. Treat new mounds as they appear.

**To control ticks and deer ticks around buildings and yards:** Apply 2.5 pounds per 1000 square feet (109 pounds per acre). Treat perimeter of buildings and yard by applying under and around shrubs, ground cover and patios. Treat perimeter of yard where grass and other ground cover grows, and other areas that may harbor ticks. Before and after treatment, weeds and grass should be trimmed to reduce harborage sites. Rodents can serve as hosts for ticks, so remove rock piles, wood piles and other rodent habitats. Key times for deer tick control are April through November in most parts of the country. Contact your Agricultural Extension Service for the best time to treat in your area.

**PERIMETER TREATMENT AROUND BUILDINGS:** To prevent infestation of buildings by ants, boxelder bugs, clover mites, crickets, earwigs, fleas, sowbugs, spiders, ticks: Treat a band of soil 6 to 10 feet wide around the building where insect pests are active and may find entrance. 1 pound treats a band 10 feet wide 40 feet long (400 square feet)(Apply at the rate of 2.5 pounds per 1000 square feet; Apply at the rate of 109 pounds per acre). This will act as a barrier against insects invading the home. Apply the protective band when insects have become troublesome or before they cause problems in the spring or early fall. Do not water in after application. Repeat as needed for control.

**TO CONTROL INSECTS IN FLOWER GARDENS, UNDER AND AROUND SHRUBS:** To control ants, armyworms, cutworms, crickets, deer ticks, earwigs, fire ants, fleas, grasshoppers, ticks: Apply 2.5 pounds per 1000 square feet (109 pounds per acre) evenly over soil in flower beds and under shrubbery. Treat individual fire ant mounds as instructed on this label.

	SPREADER SETTINGS to apply at the listed pounds per 1000 square feet		
	2.5 lbs	3.5 lbs	5 lbs
Spreader A	•••••	•••••	•••••
Spreader B	•••••	•••••	•••••
Spreader C	•••••	•••••	•••••
Spreader D	•••••	•••••	•••••

(This chart may contain additional spreader brands/models, spreader settings, and instructions for spreader use and calibration, as appropriate for the product.)

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### TO CONTROL INSECTS IN HOME VEGETABLE GARDENS

Food utensils (spoons or measuring cups) must not be used for food purposes after use in measuring insecticide.

**Vegetables:** To control root maggots and other pests  
 At-plant application: Use 7.5 ounces to 14 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row, placing granules in a 4 inch wide band over the row, after seed is placed in planting furrow and covered.  
 Lightly incorporate granules into the top 1/4 to 1/2 of soil.  
 Restrictions: Make only one application per year at planting time. Do not use rutabaga tops for food or feed purposes.

broccoli  
brussels sprouts  
cabbage  
cauliflower  
Chinese cabbage  
collards  
kale, kohlrabi,  
rutabagas  
turnips

**Onions** Pests controlled include onion maggot  
 At-plant application: Use 5.5 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row, placing granules in furrow at planting time. Cover the granules and onion sets with suitable soil.  
 Restrictions: Make only one application per year at planting time.

**Radishes** Pests controlled include root maggot  
 At-plant application: Use 5 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row, placing granules in furrow at planting time. Cover the granules and seeds with suitable soil.  
 Restrictions: Make only one application per year at planting time.

**Sweet corn** Pests controlled include root maggot, cutworms, wireworms, seed corn maggot, seed corn beetle, symphylians, northern and western corn rootworm larvae, lesser cornstalk borer, southern corn rootworm larvae, flea beetle larvae, grubs, chinch bugs, fire ants, billbugs  
 At-plant application: Use 12.5 ounces to 19 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row. With seed still uncovered in furrow apply granules over seed and along side furrow to make a 10 inch wide band of insecticide granules. Cover seed with treated soil. After seed is covered, remaining granules should be lightly incorporated into the top 1/2 to 1 inch soil. In soils over 10% organic matter, use the higher rate (19 ounces per 100 feet of row).  
 Restrictions: Make only one application per year at planting time.

**Sweet potatoes** Pests controlled include wireworms, flea beetle, sweet potato beetle  
 At-plant broadcast application: Evenly broadcast 4-3/8 pounds of insecticide per 1000 square feet of planting area over soil surface, then incorporate granules to a depth of 4 to 6 inches. Plant sweet potatoes in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time the insecticide will protect against feeding damage by the listed pests). This product will not control false wireworm or whitefringed beetle and certain other grubs that attack sweet potatoes.  
 Restrictions: Make only one application per year prior to planting. Do not harvest within 125 days of treatment.

**Sunflowers** Pests controlled include cutworms  
 At-plant application: Use 12.5 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row, placing granules in a 7 inch wide band over the row after seed is placed in furrow and covered. Lightly incorporate granules into the top 1 inch of soil.  
 Restrictions: Make only one application per year at planting time.

**Peanuts** Pests controlled include cutworms, wireworms, lesser cornstalk borer, southern corn rootworm larvae  
 At-plant application: Use 11 ounces to 22.5 ounces of insecticide (XX cups/tablespoons, as determined by product density) per 100 feet of row, placing granules in a 6 to 12 inch wide band over the row after seed is placed in furrow and covered. Lightly incorporate granules into the soil surface.  
 Post-plant application: Use 11 ounces to 22.5 ounces of insecticide at early flowering stage in a 6 to 12 inch band over the row, or during early pegging in a 10 to 18 inch band over the fruiting zone. Use the 11 ounce rate only if the 11 ounce rate was applied at planting. Irrigation or rain following application will enhance activity.  
 Restrictions: Do not apply more than a total of 22.5 ounces of this product per 100 feet of row per season. Do not harvest within 21 days of last treatment. Do not feed above ground portions of peanut plants to meat or dairy animals.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Store in original container in a locked storage area out of reach of children and domestic animals.

**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.

*(Alternate wording for household use packages:)*  
**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.  
**CONTAINER DISPOSAL:** Do not reuse container (bag, jar, can). Discard in trash.

**GUARANTEE:** This product is unconditionally guaranteed.

*(Alternate wording for warranty statement:)*  
**GREEN GUARANTEED:** Your satisfaction is guaranteed when this product is used in accordance with instructions. Of product performance is less than satisfactory, seller will refund the full purchase price with evidence of purchase.

*(Alternate wording for warranty statement:)*  
**NOTICE:** Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

*(Alternate wording for warranty statement:)*  
**WARRANTY AND DISCLAIMER:** Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label. Manufacturer/seller makes no other warranty, expressed or implied, and shall not be liable for indirect or consequential damages.

*(Alternate wording for warranty statement:)*  
**WARRANTY AND DISCLAIMER:** Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label. No other warranty, expressed or implied, is made concerning the merchantability or fitness for a particular purpose. Manufacturer/seller's liability shall be limited to the purchase price of the product. In no case shall manufacturer/seller be liable for consequential or incidental damages or loss.

*(Alternate wording for warranty statement:)*  
**NOTICE:** Manufacturer/seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Plant injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of manufacturer/seller. In no case shall manufacturer/seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Except as expressly provided, manufacturer/seller makes no other warranties or representations, expressed or implied, or by usage of trade, statutory or otherwise, including, but not limited to, merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. Buyer's or user's exclusive remedy for loss or damage resulting from this product shall be limited to the cost of the product.

**A C C E P T E D**

OCT 6 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 32802-49

