# SEPA COMPANY 2719 NUMBER 2219

# PRODUCT SERIAL NO.

# LABEL APPROVAL DATE

Pm 19 # 62719-14

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APR 2 3 1991

Mr. Michael W. Melichar DowElanco 9008 Purdue Road--Quad IV P.O. Box 681428 Indianapolis, Indiana 46268-1189

Dear Mr. Melichar:

Subject: Revised Labeling Dursban 1/2G Granular Insecticide EPA Registration Number 62719-14 Your Application Dated July 24, 1990

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:

 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. Make the following labeling changes before you release the product for shipment bearing the amended labeling:

a. Add the EPA Registration Number for this product, 62719-14, on the first page of the label.

b. In the directions for use on Sweetcorn, Popcorn, Field Corn, delete Field Corn. This is not a home or backyard crop.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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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,

Dennis H. Edwards, Jr. Product Manager (12) Insecticide Rodenticide Branch Registration Division (H7505C)

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Enclosure

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#### DURSEAN\* 1/2G GRANULAR INSECTICIDE

POR CONTROL OF VARIOUS INSECTS (AND OTHER ARTHROPODS) INFESTING LAWNS AND OTHER ORNAMENTAL TURF AREAS, FLOMER BEDS, UNDER SHNUBBERY, BUILDINGS, AND CERTAIN VEGETABLE CROPS.

Active Ingredient(5):

KEEP OUT OF REACH OF CHILDREN

#### CAUTION

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals NAY BE HARMFUL IF SWALLOWED Do not take internally. Avoid inhaling dust. Avoid eye contact.

contaminated eyes with plenty of water, and get medical attention if irritation persists. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and domestic water supplies.

#### STATEMENT OF PRACTICAL TREATMENT

If swallowed: call a physician or poison control center. Drink one or two 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 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 with plenty of water. Get medical attention.

NOTE TO PHYSICIAN: Active ingredient is a cholinesterase inhibitor. Treat symptomatically. Atropine, by injection only, is antidotal.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not feed treated grass clippings to livestock. Apply this product only as specified on this label.

#### NOTICE

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Read and understand the entire label befor using. Use only according to label directions.

Before buying or using this product, read "WARRANTY DISCLAIMER" and "LIMITATION OF REMEDIES" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other constitutes acceptance of the terms under WARRANTY DISCLAIMER and LIMITATION OF REMEDIES.

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. DO NOT USE THIS PRODUCT INDOORS.

POR HOME LAWNS, FLOWER BEDS, UNDER SHRUBBERY, AND OTHER RECREATIONAL ACCEPTED ORNAMENTAL TURF AREAS.

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Under the Federal Innecticide, Fungicide, and Rulenticide Act as amended, for the pesticide registered under EPA Deg. No. 62719-14 Chinch Bugs Fleas Ants Crickets Sowbugs (Fillbugs) Billbugs Cutworms Grasshoppers Boxelder Bugs Clover Mites Sod Webworms (lawn moths) Chiggers (1) Fire Ants Armyworms Earwigs (2) Hyperodes (turfgrass) Weevils \*(3) European Grane Fly Lervae \*(4) White Grubs (5) Ticks (including deer ticks)

\* Indicates that watering in of DURSBAN 1/2G will increase effectiveness.

(#) Numbers in parentheses refer to specialized application directions.

#### APPLICATIONS TO TURF

Apply DURSBAN 1/2G uniformly to home lawns at the rate of 5 pounds per 1,000 sq. ft. Consult the table below to determine the amounts of DURSBAN 1/2G needed for larger-sized areas. Use any hand or power-operated gravity or rotary type spreader designed for application of granular materials. To help obtain uniform distribution of DURSBAN 1/2G on the lawn, apply one-half of the required amount of product in one direction; then apply the balance at a right angle.

RATES TO USE AREA TO BE TREATED

POUNDS OF DURSBAN 1/2G

1,000 sg. ft.	5 pounds
2,500 sq. ft.	12.5 pounds
4,000 sq. ft.	20 pounds
5,000 sg. ft.	25 pounds
10,000 øg. ft.	50 pounds

To help obtain uniform distribution, apply one-half the required amount of product in one direction, then apply the remainder at right angles.

#### SPREADER SETTINGS

Application rate (Lbs. per 1.000 gg. ft.)	Lilly/Miller	Central	Scotts	Ortho Drop
5	6.0	6.75	6.0	5.5
7	7.5	7.25	7.5	6.5
10	8.0	7.75	8.0	7.5
20	11.5	9.5	11.5	9.0

 FIRE ANT CONTROL (for individual fire ant mounds) Apply DURSBAN 1/2G at a rate of 4 ounces (8 tablespoons) per active mound. Sprinkle granules gently and evenly over surface of mound and out approximately two feet surrounding the mound. Avoid disturbing ants. For best results, apply when ants are least active: in cool weather, 65°F to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. 2. TURFGRASS WEEVIL CONTROL (larvae of Hyperodes weevil) Apply 10 pounds of DURSBAN 1/2G per 1,000 sq. ft. (twice the rate in application table above). Apply the granules uniformly over the area to be treated. For best results, treat when grubs are young and actively feeding near the the soil surface. Consult your local Agricultural Extension Service specialist for proper time to treat in your geographic area.

#### 3. EUROPEAN CRANE FLY LARVAE CONTROL

Apply DURSEAN 1/2G at a rate of 7 pounds par 1,000 sq. ft. using any granular application equipment as described above. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil: apply the equivalent of 1/2 to 1 inch of water by using a sprinkler or other means of applying water to turf. Consult your local Agricultural Extension Service specialist for timing of application in your geographic area.

4. WHITE GRUB CONTROL (such as: larvae of Japanese Beetle, Black Turfgrass ataenius, European chafer, and Southern Masked chafer)

Apply DURSBAN 1/2G at 10 to 20 pounds per 1,000 sq. ft. (two to four times the amounts of DURSBAN 1/2G shown in the table above). Apply the granules uniformly over the area to be treated. For increased effectiveness, follow the granule application with a thorough watering to move the insecticide into the soil: apply the equivalent of 1/2 to 1 inch of water by using a sprinkler or other means of applying water to turf. For best results, treat when grubs are young and actively feeding near the the soil surface. Consult your local Agricultural Extension Service specialist for proper time to treat in your geographic area.

5. For control of ticks infesting sreas around houses and in yard areas, tuck pants legs into socks to avoid tick bites. An insect repellant 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 treatment.

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 grasses 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. Key months for deer tick control are April through November in most parts of the country. For specific timing of application in your geographic area, contact your local extension service.

TO HELP PREVENT INFESTATION OF BUILDINGS BY INSECTS SUCH AS: Ants Crickets Earwigs Fleas Sowbugs (pillbugs) Clover Mitas Ticks Boxelder Bugs Spiders

Treat a band of soil 6 to 10 feet around and adjacent to the perimeter of the building where pests are active and may find entrance. Use the same dosage recommended (5 pounds per 1,000 sq. ft.) for control of these pests on turf found in the application chart.

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TO CONTROL INSECTS IN FLOWER GARDENS AND UNDER AND AROUND SHRUBBERY: Insects Controlled Include:

Ants Crickets Sowbugs (pillbugs) Earwig Ticks Fire Ants Cutworms Grasshoppers Armyworms

Apply DURSBAN 1/2G evenly over soil within flower beds and under shrubbery. Use the same dosage recommended for control of these pests on turf found in the application chart. Treat individual fire ant mounds as instructed above by adding 4 oz. (8 Tablespoons) of DURSBAN 1/2G gently and evenly to the surface and surrounding two fast of active fire ant mounds during early morning or late evening: when ants are least active.

NOTE 1 OZ = 6 TEASPOONS = 2 TABLESPOONS = 1/8 CUP

TO CONTROL VARIOUS INSECTS IN CERTAIN VEGETABLE CROPS:

#### ONIONS: To control:

Onion Maggots

Apply 11 1/4 oz (22 1/2 Tablespoons) of DURSBAN 1/2G per 100 feet of row by placing granules in the furrow at planting time. Cover DURSBAN 1/2G and onion sets with suitable soil.

RESTRICTIONS: DO NOT MAKE MORE THAN ONE APPLICATION PER YEAR (i.e. ONE APPLICATION PER YEAR; ONLY AT PLANTING TIME)

#### PEANUTS:

Pests Controlled Include: Cutworms Wireworms

Lesser Cornstalk Borer Southern Corn Rootworm Larvae

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#### AT-PLANT APPLICATION:

Apply 23 1/2 (2 3/4 cups) to 45 ounces (5 3/4 cups) of DURSBAN 1/2G per 100 feat of row by placing granules in a 6 to 12 inch wide band over ` the row after the seeds have been placed in the planting furrow and covered. Lightly incorporate the DURSBAN 1/2G into the surface of the soil.

#### POST-PLANT APPLICATION:

Apply 22 1/2 (2 3/4 cups) to 45 ounces (5 3/4 cups) of DURSBAN 1/2G per 100 feet of row 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 22 1/2 ounce rate only if the 22 1/2 ounce rate was applied at plant. Irrigation or rain following application will enhance activity.

#### RESTRICTIONS:

Do not apply more than a total of 45 ounces of DURSBAN 1/20 per 100 feet of row per season. Do not harvest within 21 days of last treatment. Do not fixed per ut forage or hay to meat or dairy animals.

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#### <u>SUNFLOWERS:</u> Pests Controlled Include: Cutworms

#### AT-PLANT APPLICATION:

Apply 25 cunces (3 1/8 cup) of DURSBAN 1/26 per 100 feet of row by placing granules in a 7 inch wide band over the row after the seeds have been placed in the planting furrow and covered. Lightly incorporate the DURSBAN 1/26 into the top 1 inch of soil.

RESTRICTIONS: Do not make more than one application per season.

#### SWEET POTATOES:

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Pests Controlled Include: Wireworms Flea Bestles Sweet Potato Bestle

#### PRE-PLANT BROADCAST APPLICATION:

Evenly broadcast 8 3/4 pounds of DURSBAN 1/2G per 1,000 sq. ft. of planting area over the soil surface and then incorporate the granules down to a depth of 4 to 6 inches. Plant the sweet potatoes in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that DURSBAN 1/2G will protect against feeding damage by the listed pests). DURSBAN 1/2G will not control false wireworm of whitefringed beetle and certain other grubs that attack sweet potatoes.

RESTRICTIONS: Do not make more than one application per season. Do not harvest within 125 days of treatment.

VEGETABLES:	BROCCOLI
	BRUSSELS SPROUTS
- <b>9</b> *	CABBAGE
	CNULIFLOWER
•	CHINESE CABBAGE
	COLLARDS
	KALE
	KOHLRABI
	RUTABAGAS
	TURNIPS
Pests Control	led Include:
Root Maggots	

#### AT-PLANT APPLICATION:

Apply 15 ounces (1 7/8 cups) to 27 1/2 ounces (3 1/2 cups) of DURSBAN 1/2G per 100 feet of row by placing granules in a 4 inch wide band over the row after the seeds have been placed in the planting furrow and covered. Lightly incorporate the DURSBAN 1/2G into the top 1/4 to 1/2 inch of soil.

#### **RESTRICTIONS:**

Do not make more than one application per season. Do not use rutabaga tops for food or feed purposes.

<u>PADISEES:</u> Pests Controlled Include: Root Maggots

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AT-PLANT APPLICATION: Apply 10 ounces (1 1/4 cups) of DURSBAN 1/2G per 100 feet of row by placing granules in the furrow at planting time. Cover DURSBAN 1/2G and seeds with suitable soil.

RESTRICTIONS: Do not apply more than one application per season.

#### SWEET CORN. POPCORN, FIELD CORN:

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Pasts Controlled Include: Wireworms Seed Corn Maggots Root Maggots Seed Corn Beetle Symphylans Cutworms Fire Ants Billbugs

Northern and Western Corn Rootworm Larvae Southern Corn Rootworm Larvae Lesser Cornstalk Borer Flea Beetle Larvae European and Southwestern Corn Borer Chinch Bug Grubs

#### AT-PLANT APPLICATION:

Apply 25 ounces (3 1/8 cups) to 37 3/4 ounces (4 3/4 cups) of DURSBAN 1/2G per 100 feet of row. With seed still uncovered in furrow apply granules in a 10 wide band over seed in furrow at the same time applying along side furrow for a total of a 10 inch band. Cover seed with treated soil. Any remaining granules after seed is covered should be lightly incorporated into the top 1/2 to 1 inch of soil. In soils over 10% organic matter, use the highest rate given (37 3/4 ounces per 100 feet of row).

RESTRICTIONS: Do not make more than one application per season.

**STORAGE AND DISPOSAL** Do not contaminate water, food or feed by storage or disposal.

Storage: Store in original container out of the reach of children and

pets. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**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 bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY DISCLAIMER: DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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INTERRET RISKS OF USE: It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintented consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowBlanco or the seller. All such risks shall be assumed by Buyer.

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LINITATION OF REMEDIES: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

(1) Refund of purchase price by buyer or user for product bought, or (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses. The terms of this Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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