

Agricultural Division  
Ciba-Geigy Corp.  
P.O. Box 18300  
Greensboro, NC 27419

10 APR 1984

301 / 117770  
17 / 4

Attention: Charles G. Rock

Gentlemen:

Subject: Amendment - Final Printed Labeling  
D.Z.N Diazinon 4E  
EPA Registration No. 100-463  
Your Application Dated March 13, 1984

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Under the food and feed handling establishment directions revise the sentence. "Any additional spot treatment shall not exceed two square feet," to read "Any individual spot treatment shall not exceed two square feet."
2. It appears the pesticide disposal statements are more stringent than necessary. According to our information the following is appropriate text. "Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility." Please clarify.

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

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

Enclosure

RD/IRB:DCR-28645:LaRocca:eg:Raven:557-2226:RD-22:3/39/84:Del.4/12/84

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

# 1-15

# D·z·n<sup>®</sup>

Only For Sale to, Use  
and Storage by Pest  
Control Operators

# diazinon 4E

## Insecticide

For control of cockroaches,  
certain other household  
pests, and turf and  
ornamental pests

**Active Ingredients:**  
**Diazinon: O,O-diethyl O-**  
**(2-isopropyl-6-methyl-**  
**4-pyrimidinyl)**  
 phosphorothioate . . 47.5%  
 Aromatic petroleum  
 derivative solvent . . 26.2%  
**Inert Ingredients: 26.3%**  
**Total: 100.0%**

D·z·n diazinon 4E contains  
4 lbs. diazinon per gal.

Keep Out of Reach of Children.

### Warning

See additional precaution-  
ary statements left of  
container seam.

## Five Gallons

U.S. Standard Measure

EPA Est.  
EPA Reg. No. 100-463

See directions for use on  
panel at right.

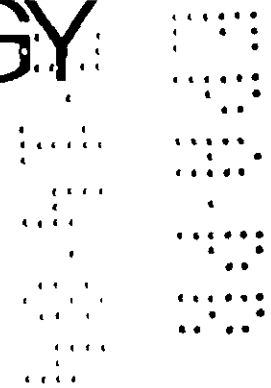
# CIBA-GEIGY

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 10 1984

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

100-463



CGA 130-570C

## D•z•n<sup>®</sup> diazinon 4E

### DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product.

#### Conditions of Sale and Warranty

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop 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 CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

#### General Information

D•z•n diazinon 4E is an emulsifiable solution containing 4 lbs. of diazinon per gal. It is intended for use by pest control operators after dilution with water for the control of those insects specified on this label.

D•z•n diazinon 4E is not intended for use in preparing oil base sprays. Pest control operators who prefer oil base sprays should use D•z•n diazinon 4S in accordance with its label.

**Note:** The solvent used in this formulation is a petroleum distillate which may stain certain plastic, rubber, and asphalt materials such as tiles and floor coverings. Do not treat such materials. Care should also be taken to avoid spotting of wallpaper and fabrics. When used in dwellings, care should be taken to avoid deposits which could be frequently contacted by children. Do not allow children in treated areas until surfaces are dry. Do not contaminate food, food containers, or cooking utensils.

#### Directions for Use

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

#### Household Insects

Dilute D•z•n diazinon 4E with water to make a ½% or 1% spray and apply as indicated below:

Gals. of Finished Spray	Amount D•z•n diazinon 4E to use for	
	½% Spray	1% Spray
1	1 ¼ fl. oz.*	2 ½ fl. oz.
2	2 ½ fl. oz.	5 fl. oz.
3	3 ¾ fl. oz.	7 ½ fl. oz.
10	12 ½ fl. oz.	25 fl. oz. (1 ¾ pts.)
25	32 fl. oz. (2 pts.)	64 fl. oz. (4 pts.)

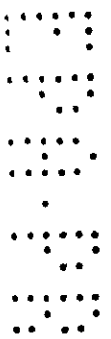
\*2 ½ tablespoons 1 ¼ fl. oz.

**Cockroaches (Waterbugs), Ants, Silverfish:** Make spot applications of ½% coarse spray or apply with a paintbrush to baseboards, areas around water pipes, cracks and crevices, surfaces behind and beneath cabinets, refrigerators, sinks, stoves, and similar areas where these insects hide.

For heavy cockroach infestations, make the first application at a strength of 1%, followed by monthly applications of ½% spray.

**Carpet beetles:** Apply a ½% spray in spot applications along baseboards and edges of carpeting, under carpeting and rugs, and furniture, in closets and on shelving, and wherever these insects are seen or suspected.

**Spiders and Scorpions:** Apply a ½% spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl.



**Pantry Pests—Exposed Stages (Saw-toothed grain beetle, Flour beetle, Rice weevil, Cigarette beetle, Drugstore beetle, Indian meal moth):** Apply a ½% spray to shelves and cupboards where food containers suspected of being infested are stored. Remove all food and shelving paper before spraying. Do not replace the food packages until spray has dried. Cover shelves with shelving paper. This treatment is supplemental to good housekeeping, since it will have no effect on insects breeding within food packages. Infested food packages should be destroyed.

**Brown Dog Ticks in Buildings**

Make thorough application of a ½% spray to infested areas around baseboards, window and door frames, wall cracks, sleeping quarters of household pets, and localized areas of floors and floor coverings. Fresh bedding should be placed in animal quarters following treatment. Do not treat animals with this formulation.

**Food and Feed Handling Establishments** (including places other than private residences in which exposed food or feed are held, processed, prepared or served.)

Apply D·z·n diazinon 4E as either a crack and crevice or spot treatment as directed below. Limit spot treatments to floor surfaces where pests have been seen or where they are suspected of hiding. Limit individual spot treatments to an area no larger than 20 percent of the floor surface. Any additional spot treatment shall not exceed two square feet. Do not apply to areas, surfaces, or utensils which will come in contact with food. Take extreme care to avoid contamination of food or food contact surfaces or introducing the material into the air.

**Food/Feed and Nonfood/feed Areas**

**Food/feed Areas (Application limited to Crack and Crevice and Spot Treatments Only)**

Food/feed areas include areas for receiving, storage, packing (canning, bottling wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving area (when food is exposed and

facility is in operation are considered a food area) and includes facilities where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held.

**Crack and Crevice Treatment —** As a crack and crevice treatment, use equipment capable of delivering a pin stream of insecticide and apply ½-1% in small amounts directly into such spaces as expansion joints, in points between different elements of construction, between equipment and floors, wall boards, baseboards or openings leading to voids and hollow spaces in walls, hollow equipment legs and bases where cockroaches (waterbugs), ants, spiders, and silverfish hide.

**Spot Treatment —** As a spot treatment, apply ½-1% as a coarse, low pressure fan spray to selective floor surfaces, areas around water pipes, beneath cabinets, refrigerators, sinks, stoves, storage areas, baseboards, under elements of construction and similar areas where cockroaches, ants, spiders, and silverfish hide.

Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed).

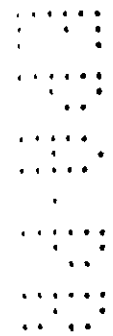
These treatments also aid in the control of pantry pests (exposed stages of saw-toothed grain beetle, flour beetle, rice weevil, cigarette beetle, drugstore beetle, and Indian meal moth) which come into contact with treated surfaces. DO NOT use this product in conduits, motor housings, and electrical switch boxes. Repeat applications as necessary.

**Applications of this product in the food/feed areas of food or feed handling establishments other than as crack and crevice and spot treatments are not permitted.**

**Nonfood/feed Areas**

Nonfood/feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

In nonfood/feed areas, apply ½-1% as a spot treatment using a coarse, low pressure for spray to baseboard areas, around water pipes, surfaces behind and beneath



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**Note:** The solvent used in this formulation is a petroleum distillate which may stain certain plastic, rubber, and asphalt materials such as tiles and floor coverings. Do not treat such materials. Care should also be taken to avoid spotting of wallpaper and fabrics. When used in dwellings, care should be taken to avoid deposits which could be frequently contacted by children. Do not allow children in treated areas until surfaces are dry. Do not contaminate food, food containers, or cooking utensils.

**Directions for Use**

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

**Household Insects**

Dilute D-z-n diazinon 4E with water to make a 1/2% or 1% spray and apply as indicated below:

Gals. of For each	Amount D-z-n diazinon 4E to use per	
	1/2% Spray	1% Spray
1	1 1/4 fl. oz.*	2 1/2 fl. oz.
2	2 1/2 fl. oz.	5 fl. oz.
3	3 3/4 fl. oz.	7 1/2 fl. oz.
10	12 1/2 fl. oz.	25 fl. oz. (3 1/2 pts.)
25	32 fl. oz. (2 pts.)	64 fl. oz. (4 pts.)

\*2 1/2 tablespoons = 1 1/4 fl. oz.

**Cockroaches (Waterbugs), Ants,**

**Silverfish:** Make spot applications of 1/2% coarse spray or apply with a paintbrush to baseboards, areas around water pipes, cracks and crevices, surfaces behind and beneath cabinets, refrigerators, sinks, stoves, and similar areas where these insects hide.

For heavy cockroach infestations, make the first application at a strength of 1%, followed by monthly applications of 1/2% spray.

**Carpet beetles:** Apply a 1/2% spray in spot applications along baseboards and edges of carpeting, under carpeting and rugs, and furniture, in closets and on shelving, and wherever these insects are seen or suspected.

**Spiders and Scorpions:** Apply a 1/2% spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl.

**Pantry Pests -- Exposed Stages** (Saw-toothed grain beetle, Flour beetle, Rice weevil, Cigarette beetle, Drugstore beetle, Indian meal moth): Apply a 1/2-1% spray to shelves and cupboards where food containers suspected of being infested are stored. Remove all food and shelving paper before spraying. Do not replace the food packages until spray has dried. Cover shelves with shelving paper. This treatment is supplemental to good housekeeping, since it will have no effect on insects breeding within food packages. Infested food packages should be destroyed.

### **Brown Dog Ticks in Buildings**

Make thorough application of a 1/2% spray to infested areas around baseboards, window and door frames, wall cracks, sleeping quarters of household pets, and localized areas of floors and floor coverings. Fresh bedding should be placed in animal quarters following treatment. Do not treat animals with this formulation.

**Food and Feed Handling Establishments** (including places other than private residences in which exposed food or feed are held, processed, prepared or served.)

Apply D-z-n diazinon 4E as either a crack and crevice or spot treatment as directed below. Limit spot treatments to floor surfaces where pests have been seen or where they are suspected of hiding. Limit individual spot treatments to an area no larger than 20 percent of the floor surface. Any additional spot treatment shall not exceed two square feet. Do not apply to areas, surfaces, or utensils which will come in contact with food. Take extreme care to avoid contamination of food or food contact surfaces or introducing the material into the air.

### **Food/Feed and Nonfood/feed Areas**

**Food/feed Areas (Application limited to Crack and Crevice and Spot Treatments Only)**

Food/feed areas include: areas for receiving, storage, packing (canning, bottling, strapping, etc.), preparing, edible waste storage, and enclosed processing systems (mills, driers, extruders, syrups) through area (when open), exposed and

facility is in operation are considered a food area) and includes facilities where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held.

**Crack and Crevice Treatment** -- As a crack and crevice treatment, use equipment capable of delivering a pin stream of insecticide and apply 1/2-1% in small amounts directly into such spaces as expansion joints, in points between different elements of construction, between equipment and floors, wall boards, baseboards or openings leading to voids and hollow spaces in walls, hollow equipment legs and bases where cockroaches (waterbugs), ants, spiders, and silverfish hide.

**Spot Treatment** -- As a spot treatment, apply 1/2-1% as a coarse, low pressure fan spray to selective floor surfaces, areas around water pipes, beneath cabinets, refrigerators, sinks, stoves, storage areas, baseboards, under elements of construction and similar areas where cockroaches, ants, spiders, and silverfish hide.

Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed).

These treatments also aid in the control of pantry pests (exposed stages of saw-toothed grain beetle, flour beetle, rice weevil, cigarette beetle, drugstore beetle, and Indian meal moth) which come into contact with treated surfaces. DO NOT use this product in conduits, motor housings, and electrical switch boxes. Repeat applications as necessary.

**Applications of this product in the food/feed areas of food or feed handling establishments other than as crack and crevice and spot treatments are not permitted.**

### **Nonfood/feed Areas**

Nonfood/feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

In nonfood/feed areas, apply 1/2-1% as a spot treatment using a coarse, low pressure fan spray to baseboard areas, around water pipes, surfaces behind and beneath





**Mimosa webworm:** Mix 1/2 fl. oz. (1 tablespoon) in 3 gals. of water (or 1 pt. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.

### Lawn Insects

To control insects listed below, apply recommended rates. For insects such as Ants, Brown dog ticks, Clover mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house, as well as the house foundation wall to a height of 2-3 ft. Repeat application if necessary.

### Boxelder Bugs

Spray bugs outside the home with 1 1/4-2 1/2 fl. oz. (2 1/2-5 tablespoons) in 1 gal. of water. At the same time, spray thoroughly around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

Insects	Rate per 1,000 sq. ft.		Remarks
	D-z-n diazinon 4E	Water	
Lawn chinch bugs	2-3 fl. oz. or 3-6 fl. oz.	25 gals.*	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Clover mites, Springtails (Collembola), Crickets, Cut worms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Sod webworms (Lawn moth), Sowbugs	4 fl. oz.	3 gals.	Spot spray anthills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For frit flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary.
Brown dog ticks, Bermuda-grass mites, Chiggers, Fleas, Leafhoppers	1-4 fl. oz.	3 gals.	Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
Millipedes	8 fl.	3 gals.	
Rhodesgrass scales	5 fl. oz.	25 gals.*	Apply when crawlers first emerge.

\*Application may be made in 3 gals. of water per 1,000 sq. ft. Thoroughly water treated area immediately following application.

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**Pesticide:** If excess pesticide, spray mixture, or rinsate cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional

office for guidance. Because pesticide wastes may be toxic, improper disposal is a violation of Federal Law.

**Container:** Triple rinse or equivalent. Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

