

NOV 25 1988

Ms. Carolyn Bussey  
Ciba-Geigy Corporation  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Amendment - Revise applicator limitation  
to add the word "only"  
D-z-n Diazinon 4E  
EPA Reg. No. 100-463  
Your submission dated November 14, 1988

Dear Ms. Bussey:

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the following revisions are made prior to release for shipment:

- 1) The active ingredient should be declared as follows:

Diazinon [O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate]

- 2) Delete "Repeat until vomit fluid is clear" from the "If swallowed" advice in the "Statement of Practical Treatment". As noted in your current text, the solvent may present an aspiration hazard, repeating the vomiting procedure could potentially increase that risk. Also, revise the last sentence of that same section to read: "Do not induce vomiting or give anything by mouth if person is unconscious or convulsing."

- 3) In the directions for use in "Food/Feed Areas", under the subheading "Spot Treatment", it would be useful to repeat those limitations which pertain exclusively to this application method and site. Specifically, revise the second paragraph of this section to read as follows:

Limit spot treatments in food areas 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 individual spot treatment must not exceed two square feet. Avoid surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.)

- 4) In the "Hazards to Humans & Domestic Animals", after "Avoid contamination of food.", add "Food utensils such as tablespoons or measuring cups must not be used for food purposes after use in measuring pesticides.". Also, add "Do not contaminate ornamental fish ponds." at the end of the current paragraph.
- 5) In the directions for use on digger wasps, add "Make the application at dusk when the wasps are not active." to the "Remarks" column.

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment.

Sincerely yours,

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

20F16

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

100-25-1000

D·z·n® diazinon 4E

Insecticide

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

100-463

Recommended for commercial/industrial use only.

For control of cockroaches, and  
ornamental pests, and certain other  
household pests (as listed in directions for use)

This product must not be used on  
golf courses and sod farms.

Active Ingredients:

Diazinon [O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidin-yl) phosphorothioate]	47.5%
Inert Ingredients*:	52.5%
<hr/> Total:	<hr/> 100.0%

\*Contains xylene

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

Keep Out of Reach of Children.

WARNING

Statement of Practical Treatment

If swallowed, call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia as product contains petroleum distillates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air and apply artificial respiration if indicated.

If on skin, wash promptly with soap and water. Rinse thoroughly.

If in eyes, rinse eyes for at least 15 minutes with water and call a physician immediately.

See additional precautionary statements left of container seam.

See directions for use on panel  
at right.

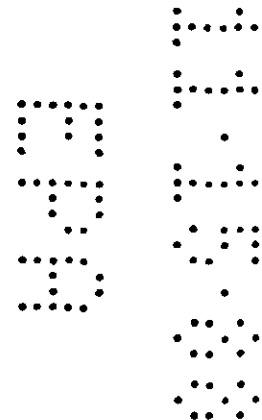
EPA Reg. No. 100-463

EPA Est. \_\_\_\_\_

One Gallon  
and  
Five Gallons

U.S. Standard Measure

CIBA-GEIGY



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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.

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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes on skin, or on clothing. Wash thoroughly after handling. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not permit children or pets to go onto sprayed grass until spray has completely dried.

Statement of Practical Treatment

If swallowed, call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia as product contains petroleum distillates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

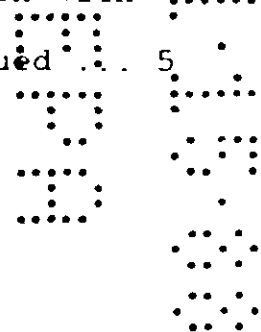
If inhaled, remove victim to fresh air and apply artificial respiration if indicated.

If on skin, wash promptly with soap and water. Rinse thoroughly.

If in eyes, rinse eyes for at least 15 minutes with water and call a physician immediately.

Note to Physician: Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken internally. Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered but only in conjunction with atropine.

Continued . . . 5



Environmental Hazards

This product is toxic to birds, fish, and wildlife including waterfowl. Birds feeding on treated areas may be killed. Keep out of any body of water. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.

DIRECTIONS FOR USE

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

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 pests specified on this label.

D·z·n diazinon 4E is not intended for use in preparing oil base sprays.

Notes: 1) 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. 2) Care should also be taken to avoid spotting of wallpaper and fabrics. 3) When used in dwellings, care should be taken to avoid deposits which could be frequently contacted by children. 4) Do not allow children in treated areas until surfaces are dry. 5) Do not contaminate food, food containers, or cooking utensils. 6) Do not apply this product through any type of irrigation system.

Household Pests

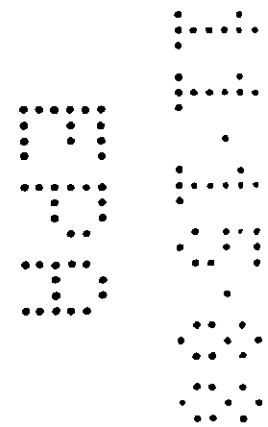
Dilute D·z·n diazinon 4E with water to make 1/2% or 1% spray and apply as indicated below:

Gals. of finished spray	Amount D-z-n diazinon 4E to use for	
	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. (1 3/5 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.

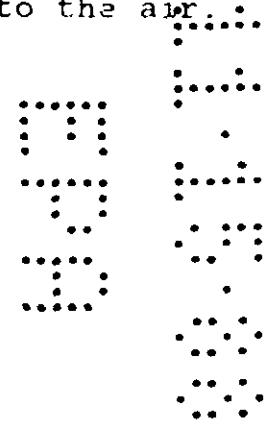
Spiders and Scorpions: Apply a 1/2% spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl.

Pantry Pests - Exposed Stages (Sawtoothed grain beetle, Flour beetle, Rice weevil, Cigarette beetle, Drugstore beetle, Indian meal moth): Apply a 1/2% 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 is 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 individual 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 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) is 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.

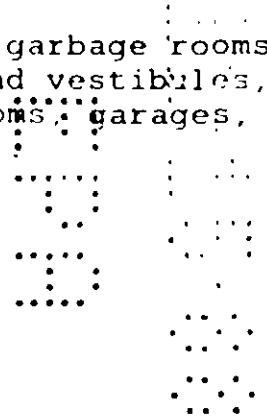
Spot Treatment - As a spot treatment, apply 1/2-1% as a coarse, low pressure fan spray to selective floor surfaces, areas around water pipes, beneath cabinets, refrigerators, sinks, stoves, storage areas, baseboards, under elements of construction and similar areas where cockroaches, ants, spiders, and 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 sawtoothed 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 for spray to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter.

Ornamental Pests: To control certain pests on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce and Willow, apply the recommended rates indicated in the following chart.

Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur.

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Pests	Amount D·z·n diazinon 4E to use	
	per 3 gal. water	per 100 gal. water
Aphids Bagworms Carnation bud mites Carnation shoot mites Clover mites Cyclamen mites Dipterous leafminers European pine shoot moths European red mites Flea beetles Holly bud moths Leafhoppers Obscure root weevils Omnivorous leaf tiers Privet mites Scale crawlers: Cottony cushion Lecanium Pine needle San Jose scale Thrips Twospotted mites Webworms Whiteflies	1/2 fl. oz.*	1 pt.*
Apple-and-thorn skeletonizers Cotoneaster webworms Fall webworms Hemlock chermes Oak loopers Obliquebanded leafrollers Pear slugs Tent caterpillars	1 1/2 fl. oz.*	3 pts.*

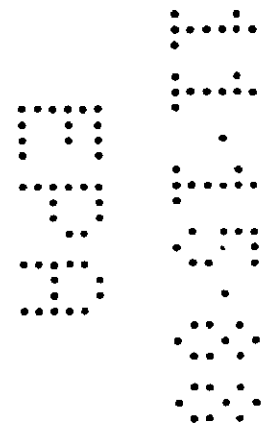
\*1 fl. oz. = 2 tbsp.; 16 fl. oz. = 1 pt.

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.

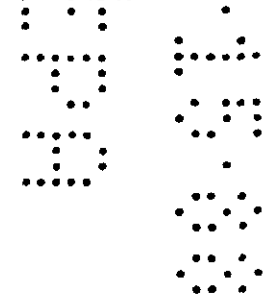
Lawn Pests: (excluding golf courses and sod farms) To control pests listed below, apply recommended rates. For pests such as Ants, Brown dog ticks, Clover mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, 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.

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping of sprays. If waterfowl, i.e., ducks, geese can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application, however, stop watering before puddling occurs.

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.



Pests	Rate per 1000 sq. ft.		Remarks
	D·z·n diazinon 4E	Water	
Lawn chinch bugs	2-3 fl. oz.	3 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, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Sod webworms (Lawn moth), Sowbugs	2-3 fl. oz.	3 gals.	Spot spray ant-hills and wasp ground nest openings.  For frit flies, mow grass and water well before treatment but delay application until grass is dry.
Brown dog ticks, Bermudagrass mites, Chiggers, Fleas, Leaf-hoppers	1 1/4 fl. oz.	3 gals.	<u>Note:</u> Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house
Millipeaces	3 fl. oz.	3 gals.	
Rhodesgrass scales	3 fl. oz.	3 gals.	Apply when ..... crawlers first emerge. ....



Storage and Disposal

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

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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.

D-z-n® trademark of CIBA-GEIGY for diazinon

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Agricultural Division  
CIBA-GEIGY Corporation  
P. O. Box 18300  
Greensboro, North Carolina 27419

CGA 1L47Y

June 7, 1983  
(deleting "wall"  
reference and  
Diazinon®)

February 6, 1984  
Revisions include crack and crevice and spot treatment revisions, and PR Notice 83-3 requirements.

April 16, 1984  
Deleted petroleum distillate reference from AI, changed additional spot treatment to individual spot treatment per EPA comment, added a petroleum distillate content comment to Precautionary Statements.

Revised: April 5, 1988  
(chemigation): deleted.  
inst. to dilute with 4%  
for oil spray, added  
avian precautions to  
lawn dfu, added do not  
use on golf courses  
and sod farms to front  
panel.

Revised: July 26, 1988 -  
Changed "Only for sale to,  
storage, and use by PCO's"  
to "Recommended for  
commercial/industrial use."  
Revised - Sept. 13, 1988 -  
Changed chem. name  
CGA 1L47Y 078.

Revised: Nov. 4, 1988  
changed chem. name back to  
orig. per EPA.

(LABELS-D.4 - DZN4E/1-5/F1)

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