

DEC 5 1988

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

Subject: Amendments - Revise ingredient declaration  
Add "only" to user limitation  
D-z-n diazinon 1.0 M.E.C.  
EPA Reg. No. 100-649  
Your submission dated November 14, 1988

Dear Ms. Bussey:

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, are 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) In the "Precautions" section of the "General Information", add:  
"Do not use as a space spray." as a numbered item.

3) Replace "Nonfood/feed" with "Nonfood/nonfeed" in the heading and text relating to use in nonfood/nonfeed areas of food and feed handling establishments.

4) In the "House Foundation Treatment" directions, revise the last sentence to read: "Do not spray lawns, desirable plants, or shrubbery because injury may occur."

5) In the "Hazards to Humans and Domestic Animals" add: "Remove pets from area, and cover fish bowls before spraying. Keep children and pets off treated areas until areas are dry." as the last sentence of this section.

6) Revise the last sentence of the "If swallowed" advice in the "Statement of Practical Treatment" to read: "Do not induce vomiting or give anything by mouth if person is unconscious or convulsing."

7) Revise the "Note to Physician" text to read as follows:

This product 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. Do not induce emesis as xylene range aromatic solvent presents an aspiration hazard. Gastric lavage is indicated if product was taken internally. After lavage, instill and leave 30 gm of activated charcoal in 3-4 oz. of water in the stomach.

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)

ACCEPTED  
with COMMENTS  
in EPA Form Label

DEC - 5 1988

CIBA-GEIGY

D-z-n® 2.0 M.E.C.®

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-649

Recommended for commercial/industrial use only.

Insecticide

For control of cockroaches, ants, silverfish, brown dog ticks,  
fleas, pantry and other household pests listed on side panel of  
label.

Active Ingredient:

Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl- 4-pyrimidinyl-yl) phosphorothioate .....	23.8%
Inert Ingredients: .....	76.2%
Total:	100.0%

Contains 2 lbs. of diazinon per gallon.

Contains xylene range aromatic solvent.

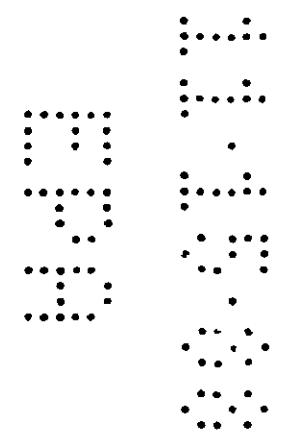
\_\_\_\_\_ Gallons  
U. S. Standard Measure

KEEP OUT OF REACH OF CHILDREN

DANGER

See additional precautionary statements  
at end of label.

EPA Reg. No. 100-649  
EPA Est. 100-AL-1



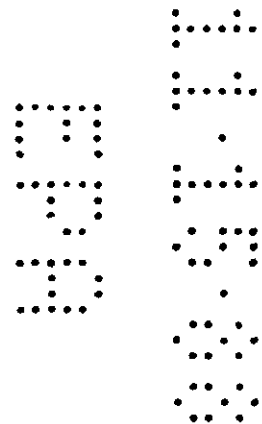
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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 2.0 M.E.C. is a microemulsion concentrate.

This product is intended for use by pest control operators after dilution with water for the control of those pests specified on this label.

Precautions: (1) Care should be taken to avoid spotting of walls, wall coverings, and fabrics. (2) When used in dwellings, care should be taken to avoid deposits which could be frequently contacted by children. (3) Remove or cover fish bowls and remove pets before spraying. (4) Do not allow children or pets in treated areas until surfaces are dry. (5) Do not contaminate food, food containers, or cooking utensils. (6) Avoid excessive application to carpets. (7) Do not use on plants or pets. (8) DO NOT use this product in conduits, motor housings or electrical switch boxes.

Note: When quicker knockdown or flushing action is desirable, pyrethrins may be added to the D-z-n 2.0 M.E.C. finished spray mixture. Normally pyrethrins are used as a 0.25% concentration. Consult the EPA-registered label for the pyrethrin product used to determine the correct amount needed. Observe all use and handling precautions on the pyrethrin label.

DIRECTIONS FOR USE

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

Dilute D-z-n 2.0 M.E.C. with water to make a 1/2% or 1% spray and apply as indicated in the following table:

Gals of Finished Spray	Amount D-z-n 2.0 M.E.C. to use for	
	1/2% Spray	1% Spray
1	2 1/2 fl. oz.*	5 fl. oz.
2	5 fl. oz.	10 fl. oz. : : : : :
3	7 1/2 fl. oz.	15 fl. oz. : : : : :
10	25 fl. oz.	50 fl. oz. : : : : :
25	64 fl. oz. (2 qt.)	128 fl. oz. (1 gal.) : : : : :
*5 tablespoons	2 1/2 fl. oz.	: : : : : : : : : : :

HOUSEHOLD PESTS

Cockroaches (Waterbugs), Ants, Silverfish: Make spot applications of 1/2% or 1% spray to baseboards, areas around water pipes, rack and dryer, 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%-1% 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.

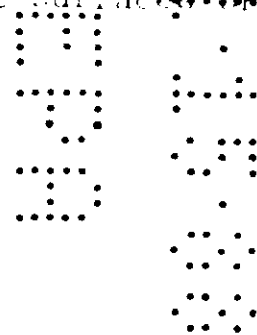
Pantry Pests--Exposed Stages (lawtoothed grain beetle, flour beetle, rice weevil, cigarette beetle, drugstore beetle, Indian meal moth): Apply a 1/2% spray to shelves and cupboards where food containers suspected of being infested are stored. Remove all food and shelving paper before spraying. Do not 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, Fleas\*: Make thorough application of a 1/2%-1% 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 product. Avoid excessive wetting of floor coverings, rugs or unfinished materials, because damage may occur. Do not apply directly to upholstery. Do not use as an overall surface spray.

\*Controls adult fleas on areas treated.

( 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-20 2.0 M.E.C. as either a crack and crevice or spot treatment as directed below. Do not apply to areas, surfaces, or utensils which will come in contact with food. Take extreme care to avoid contaminating food or food contact surfaces by 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 oil, syrups). Serving areas (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 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, stove, storage areas, baseboards, under elements of construction and similar areas where cockroaches, ants, spiders, and silverfish hide.

Limit spot treatments to floor surfaces where pests have been seen or where they are suspected of hiding. Limit spot treatments to an area no larger than 20 percent of the floor surface. Any individual spot treatment shall not exceed two square feet.

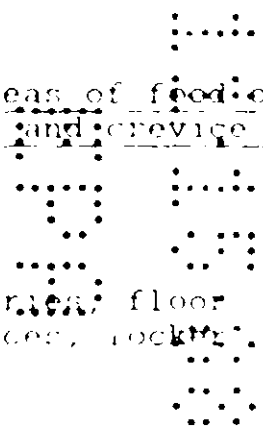
Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed).

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 application as necessary.

Applications of this product in the food/feed areas of food or feed handling establishment 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 fog 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.

### OUTDOOR PESTS

#### Foundation Band Treatment

To control ants, boxelder bugs, brown dog ticks, chiggers, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, sowbugs, spiders, and collembola (springtails) which are commonly found near the house and may enter the house, make a thorough application of a 1/2 or 1% spray. Apply to a 5-ft. band of soil around the house, including the house foundation wall to a height of 2-3 ft. Repeat application as necessary.

Note: Do not spray desirable plants or shrubbery because injury may occur.

#### Storage and Disposal

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

Pesticide: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If excess pesticide, spray mixture, or rinsate cannot be disposed of by use 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.

Container: (Metal) 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.

(Plastic) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or burn if allowed by state and local authorities. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label, and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

In the event of a major spill or accident, contact CIBA-GEIGY for assistance. (909) 421-1000, 24 hours a day.



Precautionary Statements

Hazard to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Wear goggles or face shield when handling and mixing. Do not get in eyes or on skin or clothing. Avoid breathing of vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or smoking. Remove contaminated clothing and wash before reuse.

Animal studies have indicated the product to be contact allergenic. Hypersensitive individuals should avoid exposure. Avoid contamination of food and feeds. Do not use on humans, household pets or livestock. Keep away from children and domestic animals.

Statement of Practical Treatment

If in eyes: Immediately flush eyes with plenty of water. Get medical attention promptly.

If swallowed: Contact a physician or Poison Control Center. DO NOT INDUCE VOMITING as vomiting may present aspiration hazard. Drink 1 or 2 glasses of water and get medical help. If no other treatment is available, induce vomiting only under medical supervision. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. If irritation develops or persists, get medical attention.

If inhaled: Move to fresh air and apply artificial respiration if indicated.

Note to Physician: This product contains a cholinesterase inhibitor. Gastric lavage is indicated. Do not induce emesis as solvent presents aspiration hazard. Atropine, sulfate and 2-PAM are specific antidotes only if signs of cholinesterase inhibitions are present. After lavage, instill and leave 30 gm of activated charcoal in 3-4 oz of water in the stomach.

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