

JAN 30 1986

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Ms. Barbara E. Kairies  
Technical Director  
Chem-Tox, Inc.  
21 North 988 Pepper Road  
Barrington, IL 60010

Dear Ms. Kairies:

Subject: Amendment - Chem-Tox Diazinon 4E  
Crack and Crevice Addition  
EPA Registration No. 45385-33  
Your Letters Dated January 3, 1985 and January 13, 1986

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, will be acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- a. Under "If in eyes," delete the word "immediately" and add "if irritation persists."
- b. Following the "If in eyes" statement, add another subheading, "Note to Physician," with the following statement: "May cause cholinesterase inhibition. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine."
- c. The subheading "Plastic Containers" should read ". . . or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke."

50460;Shell;LR-5;KENC0:1/28/86:2/7/86;DKD:LF

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

d. Under Nonfood Areas

- the word "garbage" incorrectly spelled
- add an "s" to office and insert a comma
- add a comma after the word "closets"

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

4. You must initiate and submit a 1-year storage and stability study in support of this product.

In regard to comments 4, 5, and 6, I suggest you check with your source of supply for this product since this is a repackage.

5. The certification of limits you submitted is not acceptable. You must give a specific value for the upper and lower limits for your active ingredients.

6. At what temperature was the pH measured?

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

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

Enclosure

## DIRECTION FOR USE

It is a violation of the Federal Law to use this product in a manner inconsistent with its labeling.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

#### Pesticide Disposal:

Pesticide spray mixture or rinsate that cannot be used according to label instruction must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

#### Container Disposal:

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

**Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

**Glass Containers:** Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by other approved state and local procedures.

Directions continued on back panel.

# DIAZINON

For sale to, storage and handling but not limited to maintenance persons, and

A concentrate to be diluted with water for long lasting control.

**CONTROLS:** Cockroaches, Scorpions, and Turf and Ornamentals

### EPA Letter Dated:

JAN 8 0 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticides registered under EPA Reg. 227.10

CHEM-TOX, Inc.  
BARRINGTON, IL 60010

Order Code  
EC-508

### ACTIVE INGREDIENTS:

Diazinon (0, 0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate) .....  
Aromatic petroleum derivative solvent .....

### INERT INGREDIENTS .....

### TOTAL .....

DIAZINON 4E contains 4 lbs. Diazinon Per Gallon

Net 1 G

**DIRECTION FOR USE (Cont.)**

**Fire Ants**  
To aid in the control of fire ants in lawns and other recreation areas, apply ½ fl. oz. (1 tbsp.) in a minimum of 1 gal. of water as a drench. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Reapply as necessary. Larger quantities of solution can be prepared for multiple mound treatments. Use equipment capable of delivering the diluted product as a gentle rain at the rate of 1 gal. per mound. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness.

**NOTE:** For best results, apply in cool weather, 65-80°, or in early morning or late evening hours. Treat new mounds as they appear.

**CAUTION  
COMBUSTIBLE  
MIXTURE  
N.Y.F.D.C. of A. No. 4146**

**HOUSEHOLD INSECTS**  
Dilute Diazinon 4E with water to make a ¼% or 1% Diazinon spray and apply as indicated below.

Gals. of Finished Spray	Amount of Diazinon 4E to use for	
	¼% spray	1% spray
1	1.25 fl. oz.	2.5 fl. oz.
2	2.5 fl. oz.	5.0 fl. oz.
3	3.75 fl. oz.	7.5 fl. oz.
10	12.5 fl. oz.	25.0 fl. oz. (1.6 pts.)
25	32.0 fl. oz. (2.0 pts.)	64.0 fl. oz. (4.0 pts.)

\* 2½ tablespoons - 1.25 fl. oz.  
**Cockroaches (Waterbugs), Ants, and Silverfish** - Make spot applications of 1% Diazinon as a coarse spray or apply with a paint brush 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% Diazinon, followed by monthly applications of ¼% Diazinon.  
**Carpet Beetles** - Apply a ¼% Diazinon 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 ¼% Diazinon 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 ¼% 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 ¼% Diazinon spray to infested areas around baseboards, windows 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.

**ADDITIONAL ORNAMENTAL INSECTS**  
To control listed insects on ornamentals - Arbutus, Azalea, Birch, Boxwood, Camelia, Carnation, Chrysanthemum, Dogwood, Elm, Gladiolus, Hawthorn, Holly, Juniper, Lilac, Locust, Magnolia, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow apply the recommended rates indicated below. Do not use on certain Ferns, Poinsettia, Hibiscus, Papaya, Plea, and Gardenia, since injury to the plants may occur.  
**Mimosa Webworms** - Max. ¼ fl. oz. (1 tablespoon) in 3 gals. water (or 1 pt. in 100 gals. water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.

**RATE OF APPLICATION**

INSECTS	Amount Diazinon 4E to use	
	per 3 gal. water	per 100 gal. water
Aphids	½ fl. oz.	1 pt.
Obscure Root Weevils		
Bagworms		
Omnivorous Leaf Tiers		
Carnation Bud Mites		
Prinet Mites		
Carnation Shoot Mites		
Scale Crawlers		
Cyclamen Mites		
Cottony Cushion		
Oxycerous Leaf Miners		
Lecanium		
European Pine Shoot		
Pine Needle		
Moths		
San Jose Soft Scales		
European Red Mites		
Thrips		
Flea Beetles	1½ fl. oz.	3 pts.
Two-Spotted Mites		
Holly Bud Moths		
Webworms		
Leafhoppers		
Wintches		
Apple-and-Thorn Skeletonizers		
Oblique-Banded Leaf Rollers		
Cottonaster Webworms		
Fall Webworms		
Pear Shags		
Hemlock Cherries		
Tent Caterpillars		

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

**LAWN INSECTS**  
To control insects listed, apply recommended rates for Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Mites, Sowbugs, and Colembola (Springtails), 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.  
**Border Bugs** - Spray bugs outside the home with 1½-2½ fl. oz. (2½ - 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.	
	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, Colembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Fire Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs	4 fl. oz.	3 gals.
Spot spray Ant Hills and Wasp ground nest openings		
For Lawn Billbugs, irrigate the lawn thoroughly immediately after treatment		
For Fire 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 Mites, Chiggers, Fleas, Leafhoppers, Do not apply to animals.	1½ fl. oz.	3 gals.
For Brown Dog Ticks spray grass and under shrubbery, particularly near house		
Mites	8 fl. oz.	3 gals.
Rhodes-Grass Scales	5 fl. oz.	25 gals.
Apply when Crawlers first emerge		

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

EQUIPMENT CAPABLE OF DELIVERING A PIN STREAM OF INSECTICIDE IN POINTS BETWEEN DIFFERENT ELEMENTS OF CONSTRUCTION, BETWEEN EQUIPMENT AND FLOORS, OPENINGS LEADING TO VOIDS AND HOLLOW SPACES IN WALLS, EQUIPMENT LEGS AND BASES WHERE COCKROACHES (WATERBUGS), ANTS, SPIDERS, SILVERFISH HIDE. DO NOT USE THIS PRODUCT IN CONDUITS, MOTOR HOUSINGS, AND ELECTRICAL SWITCH BOXES.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN CRACK AND CREVICE TREATMENT IS NOT PERMITTED.

NON-FOOD AREAS - INCLUDES GABAGE ROOMS, LAVATORIES, FLOOR DRAINS (TO SEWER, ENTRIES AND VESTIBULES, OFFICES, LOCKER ROOMS, MACHINE ROOMS, BOILER ROOMS, GARAGES, MOP CLOSETS, AND STORAGE (AFTER CANNING OR BOTTLING)

APPLY 1/2% - 1% DIAZINON 4E TO BASEBOARD AREAS AROUND WATER PIPES, SURFACES AND BENEATH SINKS, LOCKERS, TABLES, PALLETS AND SIMILAR AREAS WHERE INSECTS HIDE OR THROUGH WHICH THEY MAY ENTER.

Garbage

