

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

653/17/1992  
18

JUN 10 1994

Ms. Barbara E. Kairies  
CTX, Inc.  
481 Scotland Road  
Mt Henry, IL 60050

Dear Ms. Kairies:

Subject: Amendment- Revise per Diazinon Registration Standard  
Chem-Tox Diazinon 4E  
EPA Registration Number 45385-33  
Your submission dated October 8, 1993

This amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable, provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 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 DIRECTIONS FOR USE change "Federal Law" to read "Federal law".

b. Relocate "Try to spray underside of leaves and penetrate dense foliage." to the end of the preceding paragraph (i.e., after "...in the following chart."). This would eliminate any possible user confusion that spraying the underside of leaves would let someone treat ferns, poinsettias, hibiscus, papaya, pilea, and gardenia in this manner with the anticipation of thereby avoiding potential phytotoxic effects.

c. You may want to add the word "Precaution:" at the beginning of the sentence "Do not use Ferns, Poinsettias, Hibiscus, Papaya, Pilea, and Gardenia since injury to the plants may occur.". Also, you may want this whole sentence in italics, ~~and~~ **ENCLOSURES** on all other diazinon

SYMBOL	47858						
SURNAME	ZTC						
DATE	6/10/94						

d. In the first block of pest names, revise "Twospotted spider mites" to read "Two-spotted spider mites".

3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 constitutes acceptance of these conditions.

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

Your Confidential Statement of Formula (CSF) does not list the impurities of toxicological concern separately nor does it include the diazinon certification for FIFRA Sec. 12(a)(1)(C), that the description of this product refers to the composition set forth on the CSF and supporting materials as required by the Diazinon Registration Standard. Please check with Ciba Geigy, your supplier in this regard and update your CSF accordingly.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

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. Open dumping is prohibited.

**Pesticide Disposal:**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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 Disposal:**

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.

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, fire or other emergency, contact Chem-Tox for assistance at (815) 385-7885.

10/93

Direction for use continued on back panel.

# DIAZINON 4E

## INSECTICIDE

### RECOMMENDED FOR COMMERCIAL / INDUSTRIAL USE

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

*For pest control indoors including food and feed handling establishments. Outdoors use only on home lawns and landscaped areas around trees and shrubs.*

NO COMMENTS  
in EPA Letter dated  
JUN 10 1994  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, no attempt for the pesticide registered under EPA Reg. No. 45385-33

**ACTIVE INGREDIENTS:**

Diazinon (O,O-Diethyl O-(2-septopryl-5-methyl-4-pyrimidinyl) phosphorothioate) ..... 77.5%

**INERT INGREDIENTS:** ..... 22.5%

TOTAL ..... 100.0%

+Contains xylene range aromatic solvent.  
DIAZINON 4E contains 4 lbs. of diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN

# CAUTION

Harmful if swallowed

See side panel for additional precautions

**CHEM-TOX, INC.**  
481 Scotland Road  
McHenry, Illinois 60050

Order Code:  
EC - 508

EPA Est. No. 4-385-IL-C1  
EPA Reg. No. 45385-33

### Net 1 Gallon / 3.785 Liters

**BEST AVAILABLE COPY**

# CHEM-toX<sup>TM</sup>

# AZINON 4E

## INSECTICIDE

DESIGNED FOR COMMERCIAL / INDUSTRIAL USE ONLY.

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

Do not use indoors including food and feed handling establishments.  
Use only on home lawns and landscaped areas around the home.

### PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before smoking or eating. Remove contaminated clothing and wash before reuse.

Avoid contamination of food and feed. Food utensils such as tablespoons or measuring cups must not be used for food purposes after use in measuring pesticides. 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 treated areas until spray has dried. Do not contaminate ornamental fish ponds.

#### STATEMENT OF PRACTICAL TREATMENT

If swallowed - Call a physician or poison control center immediately. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.

If inhaled - Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin - Wash promptly with soap and water. Rinse thoroughly. Get medical attention.

If in eyes - Flush eyes with plenty of water. Call a physician if irritation persists.  
NOTE TO PHYSICIAN: Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken orally. Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibitor are present, atropine sulfate by mouth is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

Diethyl 4-pyrimidinyl	47.5%
.....	52.5%
TOTAL	100.0%

..... solvent  
..... of diazinon per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
Harmful if swallowed.  
See side panel for additional precautionary statements.

EPA Est. No. 45385 IL-01  
EPA Reg. No. 45385-33

**Net 1 Gallon / 3.785 Liters**

#### ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife, 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 Atlantic Coast waterfowl, do not apply this product to lawns 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 and waterfowl. Avoid overspilling of sprays. For lawns, if waterfowl, ie, ducks and geese, can be expected in the treated area after treatment (except spot treatment) water lawn with at least 1/4 inch of water immediately after spraying this product, however, stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming plants. Do not apply this pesticide or allow it to drift to blooming plants if bees are visiting the treatment area.

#### PHYSICAL OR CHEMICAL HAZARDS

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

**BEST AVAILABLE COPY**

THIS PRODUCT conforms to the chemical description on the label and is reasonably safe for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. CHEM-TOX makes no other express or implied warranty of fitness or MERCHANTABILITY or any other express or implied warranty. In no case shall CHEM-TOX or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CHEM-TOX and the Seller offer this product and the Buyer and user accept all risk 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 CHEM-TOX.

**GENERAL INFORMATION**

Diazinon 4E is an emulsifiable concentrate and is intended for use by pest control operators. Apply the product after dilution with water according to the directions for use for the control of these pests specified on this label. Diazinon 4E is not intended for use in preparing oil base sprays.

This product may be used indoors in houses, apartments, and other structures including schools (except classrooms in use), hospitals, rest homes, patient rooms, while occupying office buildings, museums, libraries, sports facilities, stores, warehouses, and food and feed handling establishments. Read and follow the Precautions listed below when applying this product in any of these indoor areas. This product is also approved for use in USDA Meat and Poultry Plants. In food and feed areas of food/feed handling establishments, Diazinon 4E may be applied only as a crack and crevice treatment or limited spot treatment. See the specific directions for use for treatment of these areas.

Diazinon 4E may also be used outdoors on lawns and ornamentals around the home. See the specific Directions for Use for treatment of these areas.

**INDOOR USE**

**Indoors Diazinon 4E Controls:**  
 Ants, Carpet Beetles, Scorpions, Brown Dog Ticks, Cockroaches (waterbugs), and Spiders. In houses and in food and feed areas of food/feed handling establishments, this product also acts in the control of the following insects and species of poultry pests when combined with treated surfaces:  
 Druggstore Beetle, Flour Beetle, Cigarette Beetle, Indian Meal Moth, Rice Weevil, Sawtooth Grain Beetle.

**Precautions:** (1) Do not use this product on any surface that is to be sprayed by a person who cannot not irrigate this product. (2) Do not spray on any surface that is to be sprayed by a person who cannot not irrigate this product. (3) Do not apply where children are likely to frequently contact treated surfaces. (4) Remove or cover all plants and animals from treated areas and sprays. (5) Do not use this product in patient rooms or in any room while occupied by the patient. (6) Do not use this product in classrooms when in use. (7) Do not use this product in libraries and rooms frequented by the public. (8) Do not apply this product when occupants are present in the immediate area. (9) The solvent used in this formulation is a petroleum product which may damage certain rubber and asphalt materials such as tires, floor coverings, or unfinished materials because damage may occur. (10) Care should be taken in avoiding spraying of walls, wall coverings, and fabrics. (11) Do not apply directly to carpets, moldings, or electrical switch boxes. (12) Do not apply to areas, surfaces, or contents which are contact food or feed. (13) Food/feed food should be covered or removed during application. (14) All floor processing for clean and safe should be covered during application or thoroughly washed with soap and water before use. (15) If rinsing is required during application, remove clothing immediately after spraying, wash affected body areas with soap and water, and launder clothing before wearing again.

**Mixing Instructions**

Dilute Diazinon 4E with water to make a 1% or 1/4% and apply as indicated below.

Gals. of finished spray	Amount Diazinon 4E to use - lbs.	
	1% spray	1/4% 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. (1.56 pints)
25	31 fl. oz. (2 pints)	64 fl. oz. (4 pints)

1/2 pint = 8 fl. oz.

**Indoor Use (Except Food and Feed Handling Establishments, Houses, Apartments, and Non-Food Areas of Offices, Schools (except classrooms in use), Libraries, Museums (except patient rooms in use), and Sports Facilities:** Use from and Feed Handling Establishments for application when applying this product in the handling of these areas in non-residential buildings.

**Apply to walls and roof coverings:** Do not use as an overall surface spray. Fresh bedding should be placed in animal quarters following treatment. Do not treat animals with this product.

**Carpet Beetles:** Apply a 1/4% spray around windows, doors, and along baseboards and edges of carpeting, under carpeting and rugs and furniture in closets and on shelves, and wherever these insects are seen or suspected.

**Spiders and Scorpions:** Apply a 1/4% spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl.

**Poultry Pests - Exposed Stages (Sawtoothed grain beetle, Flour beetle, Rice weevil, Cigarette beetle, Druggstore beetle, Indian meal moth):** Apply a 1/4% 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 insect breeding within food packages. Infested food packages should be destroyed.

**Food and Feed Handling Establishments**

Places other than private residences in which food or feed is held, processed, prepared or served (includes restaurants, cafeterias, bakeries, food processing plants, dairy, chicken, USDA Meat and Poultry Plants, etc.). Diazinon 4E may be used on the food/feed areas and the non-food/feed areas of these establishments. Apply Diazinon 4E either as a limited spot or crack and crevice treatment as directed below.

**Food/Feed Areas of Food/Feed Handling Establishments**  
 Include areas for receiving, storing, storage, processing, and freezing of raw, packaging, packing, holding, and grinding, enclosed processing systems, canneries, and systems for processing milk, eggs, etc., and syrups.

**APPLICATION OF THIS PRODUCT IN THE FOOD/FEEED AREAS OF FOOD HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT OR LIMITED SPOT TREATMENT IS NOT PERMITTED.**

**Limited Spot Treatment**  
 Apply this product diluted to 1/4% as a coarse, low-pressure fan spray around water pipes and other frames, to surfaces beneath cabinets, refrigerators, sinks, shelves, storage racks and in other areas. Also spot treat cracks in walls, floors, ceilings, etc., and in other areas where they are suspected of hiding. Limiting the food/feed areas until spray has dried. 20% of the surface area. An individual spot treatment must not exceed 2 square feet.

**Crack and Crevice Treatment**  
 Apply this product diluted to 1/4% with equipment capable of delivering a fine mist of insecticide. Apply in small amounts directly in cracks and crevices in such areas as expansion joints, spaces between equipment and the floor, doorings leading to voids, and hollow spaces in walls and equipment legs and bases.

**Non-Food/Feed Areas of Food/Feed Handling Establishments:** Include garbage rooms, lavatories, floor drains, no seawalls, chutes and vest chutes, canner, locker rooms, machine rooms, boiler rooms, mop closets and storage areas (after cleaning or before).

**Spot Treatment**  
 Apply this product diluted to 1/4% to the spray. Apply as a coarse, low-pressure fan spray as a spot treatment along baseboards, in areas around water pipes, beneath cabinets, to surfaces behind and beneath sinks, lockers and drains, and to storage areas where cockroaches, ants, sawflies and spiders hide.

**OUTDOOR USE**

**Control of pests on lawns and on ornamental plants around the outside of the home.**

**Precautions:** (1) Do not use this product on ornamentals or on turf areas other than around the home. (2) Do not apply this product through any type of irrigation system. (3) This product is highly toxic to bees exposed to direct treatment. Do not apply to flowering plants. Do not apply this product to allow it to drift to blooming plants if bees are working the treatment area. (4) Bees, especially waterfowl, feeding or drinking on treated area may be killed. (5) Because of the respiratory hazard of certain Azalea, Camellia, and other plants, do not apply this product to Azalea in Nassau County, New York between November 1 and May 20. (6) Do not exceed maximum permitted label rates since rates above those recommended significantly increase potential hazards to birds. (7) Avoid overlapping of sprays. (8) If waterfowl or other birds can be excluded from the treated lawn after treatment, spot treatment, water lawn will attract to them if water immediately after spraying this product. However, stop watering before puddling occurs. (9) Wear a long-sleeved shirt and long-sleeved pants when spraying. Spray with the wind to your back. Do not spray on windy days. If clothing becomes wet from spray, during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again.

**Pests of Ornamental Plants:** To control certain pests on ornamentals, such as Azalea, Azalea, Birch, Boxwood, Camellia, Calluna, Chrysanthemum, Douglas Fir, Elm, Garden Honeysuckle, Holly, Juniper, Lilac, Lorust, Maple, Oak, Pine, Ornamental Plum, Pepper, Rhododendron, Rose, Shrub, and Willow, apply the recommended rates indicated in the following chart.

Pests	Water	Water
Aphids, Bagworms, Garden bud moths, Gummy stem blight, Green stink bugs, European spruce sawfly, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Obscure root weevils, Omeoerous leafhoppers, Privet mites, Scale insects	1 1/2 fl. oz.	1 pt.
Cottony cushion, Lecanium, Pine needle scale, San Jose scale, Thrips, Spotted spider mites, Juniper Webworms, Whiteflies	1 1/2 fl. oz.	3 pints

Mimosid Webworm: Mix 1/2 oz. (1 tablespoon) in 3 gals. of water (or 1 pt. in 100 gal. of water) and apply as a thorough, total spray when adults first appear. Make a second and third application at 4-5 week intervals.

**Home Lawn Pests:** To control pests listed below, apply recommended rates.

Pests	Rate per 1,000 sq. ft.	Water	Remarks
Lawn chinch bugs	2.0 fl. oz.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants	2.0 fl. oz.	3 gals.	Spot spray within a few days of initial nest sightings.
Firebugs	2.0 fl. oz.	3 gals.	Firebugger wastes; apply at dusk when waste is not active.
Grasshoppers	2.0 fl. oz.	3 gals.	For lawns, mow grass and water well before treatment. Do not delay application until grass is dry.
Brown dog ticks	2.0 fl. oz.	3 gals.	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, then mow.
Chiggers	2.0 fl. oz.	3 gals.	Spot treatment areas in and around yard.
Milipedes	3.0 fl. oz.	3 gals.	Apply when crawlers first emerge.
Round grass scales	3.0 fl. oz.	3 gals.	Apply any time between late July and early October.
White grubs (such as Japanese beetle larvae, European chafers, Southern chafers)	3.0 fl. oz.	3 gals.	

**Nuisance Pests Outside the Home:**  
 Ants, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Fleas, Fleas, Fleas, Milipedes, Sawtoothed Grain Beetles, Spiders, and Springtails (Collembola). Mix 3 fl. oz. in 2 gals. of water.

Thoroughly spray window and door screens and eels, transoms, porches and patio walls, handrails, walk, garbage cans, trash, etc., and into cracks and other places where insects can hide. Repeat application as necessary.

To prevent entry of insects into the house, spray a fine food band of soil around the house to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary.

**BEST AVAILABLE COPY**

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