

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 22 1995

AMVAC Chemical Corporation
c/o Mr. H. R. McLane
7210 Red Road, Suite 206
Miami, FL 33143-5352

Dear Mr. McLane:

Subject: Amendment- Revise per Diazinon Registration Standard
Diazinon 4E
EPA Registration No. 5481-224
Your submission dated September 23, 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. Replace "This product is approved for use in food and feed areas of food/feed handling establishments,..." with "This product is not approved by USDA for use in Federally inspected meat and poultry plants. In food and areas of food/feed handling establishments...". The Agency assumes that since you deleted the USDA approval sentence from your draft label that this product is not approved by USDA for use in such sites. If such approval is later granted, change that sentence to the affirmative.

b. Replace the definition for Food/Feed Areas of Food/Feed Handling Establishments with the following: Includes areas for receiving, serving, storage (dry, cold, frozen, raw), packing (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, zgrinding), edible waste ~~CONCURRENCE~~, and enclosed processing systems (mills, dairies, edible oils, syrups).

145

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| SYMBOL | 2525C | | | | | |
| SURNAME | McL | | | | | |
| DATE | 8/22/95 | | | | | |

c. 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.

d. 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, as it is on all other diazinon labels.

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

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

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 current 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, as well as the certification regarding the determination of the certified limits of the toxicological significant impurities, i.e., reliance on your diazinon supplier's analysis of their technical. Please check with your diazinon supplier in this regard and update your CSF accordingly.

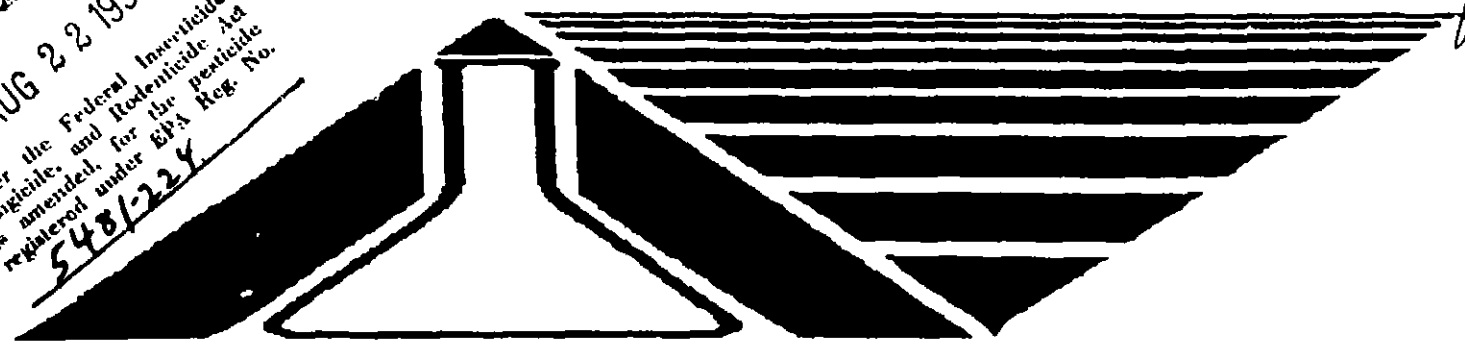
Sincerely,

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

Enclosure

395

ACCEPTED
with COMMENTS
to EPA Letter Dated
AUG 22 1995
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5481-224



DIAZINON 4E

INSECTICIDE

Recommended for commercial/industrial use only.
For pest control indoors including food and feed
handling establishments. Outdoors use only on
home lawns and landscaped areas around the home.

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

Active ingredient: Diazinon: O,O-Diethyl O-(2-isopropyl-6-
methyl-4-pyrimidinyl) phosphorothioate 47.54%

Inert ingredients*: 52.54%

Total: 100.04%

* Contains xylene range aromatic solvents.

DIAZINON 4E Contains 4 lbs. diazinon per gallon.
EPA Reg. No. 5481-224 EPA Est. No. 5481-CA-1
See directions for use on panel at right.

One Gallon
U. S. Standard Measure

KEEP OUT OF REACH OF CHILDREN. CAUTION Precautionary Statements

Hazards to Humans and Domestic Animals
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 eating or drinking. Remove contaminated clothing and wash before reuse. Avoid contamination of food and feed. Feed grains such as silage, bedding or measuring cups must not be used for feed 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 into treated areas until spray has dried. Do not contaminate environmental fish ponds.

Signs and Symptoms of Poisoning
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 comatose.
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 plenty of soap and water. Rinse thoroughly. Get medical attention.
If in eyes: Rinse 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 internally. Diazinon is an organophosphorus insecticide. It synthesizes diacetylcholinesterase inhibition and prevents synaptic release by inhibition of acetylcholinesterase. 2-PAM is also indicated and may be administered, but only in conjunction with atropine.

Environmental Hazards
This product is highly toxic to birds, fish and other wildlife. Birds, exposed by waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as directed on this label. Because of the respiratory hazard of certain Aromatic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 30. Do not exceed maximum permitted label rate unless state laws allow these higher-mowed spray-type increases. Potential hazard to birds and animals. Avoid overlapping of sprays. For lawns, if untreated, i.e., during and after, can be directed in the treated area after treatment (except when treatment is water lawn with at least 1/4 inch of water immediately after spraying with product). However, this warning before mowing applies. Keep out of treated areas, ponds, and streams and oceans. Do not apply directly to water to areas where wildlife may be present, or to treated areas (such as by mean high water mark). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Sprays and drift may be toxic at application rates recommended on this label. Do not spray where fish, shrimp, crabs and other aquatic life are abundant near water. Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

The product is highly toxic to bees exposed to direct treatment or residue on blooming plants. Do not spray 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.

AMVAC CHEMICAL CORPORATION
4100 East Washington Blvd.
Los Angeles, CA 90023 U.S.A.

BEST COPY AVAILABLE

495

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. If terms are not acceptable, return the unopened product container at once.

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 of which are beyond the control of AMVAC or the Seller. All such risks shall be assumed by the Buyer.

AMVAC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the Directions for Use subject to the inherent risks referred to above. AMVAC makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall AMVAC or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.

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 AMVAC.

DIRECTIONS FOR USE

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

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 those pests specified on this label. Diazinon 4E is not intended for use in preparing of base sprays.

This product may be used indoors in households, apartments, and other structures including schools (except classrooms in use), hospitals (except in patient rooms while occupied), 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 approved for use 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 only on home 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), spiders

In households and in food and feed areas of food/feed handling establishments, this product also acts in the control of the following exposed stages of pantry pests which come into contact with treated surfaces.

drugstore beetle, flour beetle, rice weevil, cigarette beetle, Indian meal moth, sawtooth grain beetle

Precautions: (1) Do not use this product indoors as an overall surface spray or as a space spray; take care not to introduce the product into the air during application. (2) Use only in well-ventilated areas. (3) Do not apply where children are likely to frequently contact treated surfaces. (4) Remove or cover fish bowls and remove pets before application. (5) Do not treat pets with this product. (6) Do not allow children or pets in treated areas until spray has dried. (7) Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm. (8) Do not apply to classrooms when in use. (9) In institutions (including, but not limited to office buildings, museums, libraries, and sports facilities), do not apply this product when occupants are present in the immediate area. (10) The solvent used in this formulation is a petroleum distillate which may stain certain plastic, rubber, and leather materials such as tile and floor coverings. Do not treat such materials. (11) Avoid excessive wetting of carpets, floor coverings or unfinished materials because damage may occur. (12) Care should be taken to avoid wetting of walls, wall coverings, and fabrics. (13) Do not apply directly to conduits, motor housings or electrical switch boxes. (14) Do not apply to areas, surfaces, or utensils which will contact food or feed. (15) Exposed food should be covered or removed during application. (16) All food processing surfaces and utensils should be covered during application or thoroughly washed with soap and water before use. (17) If clothing is sprayed 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 1/2% or 1% spray and apply as indicated below.

Table with 3 columns: Gals. of finished spray, Amount Diazinon 4E to use for 1/2% spray, Amount Diazinon 4E to use for 1% spray. Rows include 1, 2, 3, 10, and 25 gallons.

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

Indoor Use - Except Food and Feed Handling Establishments, Households, Apartments, and Non-Feed Areas of Offices, Schools (except classrooms in use), Libraries, Hospitals (except patient rooms while occupied), Museums and Sports Facilities (See "Food and Feed Handling Establishments" for special directions when applying this product in food handling or serving areas in non-residential buildings).

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.

Brown Dog Ticks: 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. 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 1/2% 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 (Sawtooth 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.

Food and Feed Handling Establishments

Places other than private residences in which food or feed is held, processed, prepared or served (includes restaurants, canneries, bakeries, food processing plants, mills, and dairies).

DIAZINON 4E may be used in the food/feed areas and the non-food/non-feed areas of these establishments. Apply 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, serving, storage, (fry, cook, frozen or hot), packaging (canning, bottling, and grinding); enclosed processing systems (mills, dairies, and systems for processing edible oils, and syrups).

APPLICATION OF THIS PRODUCT IN THE FOOD/FEE 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 1/2-1% as a localized low-pressure spray around water pipes and door frames, to joints beneath cabinets, refrigerators, sinks, stoves, storage areas, and similar floor areas. Limit spot treatments to floor surfaces where pests have been seen or where they are suspected of hiding. Limit the sum of individual spot treatments to an area no larger than 20% of the floor surface area. Any individual spot treatment must not exceed 2 square feet.

Crack and Crevice Treatment

Apply this product diluted to 1/2-1% with equipment capable of delivering a pin stream of insecticide. Apply in cracks and crevices in such areas as expansion joints, spaces between equipment and the floor, openings leading to voids, and hollow areas in walls and equipment legs and bases.

Non-Feed/Non-Feed Areas of Food/Feed Handling Establishments: Include garbage rooms, lavatories, floor drains (to sewers), entrance and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage areas (after canning or bottling).

4

595

DIAZINON 4E

Spot Treatment

Apply this product diluted to a 1/2-1% spray. Apply as a coarse, low-pressure fan spray as a spot treatment along baseboards, to areas around water pipes, beneath cabinets, to surfaces behind and beneath sinks, lockers and panes; and to storage areas where cockroaches, ants, silverfish and spiders hide.

OUTDOOR USE

Control of pests on lawns and on ornamentals around the home only.

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 or to residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. (4) Birds, especially waterfowl, feeding or drinking on treated areas may be killed. (5) 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. (6) Do not exceed maximum permitted label rates since rates above those recommended significantly increase potential hazards to birds and waterfowl. (7) Avoid overlapping of sprays. (8) If waterfowl, i.e., ducks, geese, can be expected in the treated lawn after treatment (except spot treatment) water lawn with at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. (9) Wear a long-sleeved shirt and long-legged 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 Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas fir, Elm, Gladiolus, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Spruce and Willow, apply the recommended rates indicated in the following chart.

Do not use on Ferns, Fuchsia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur. Try to spray underside of leaves and penetrate dense foliage.

| Pests | Amount Diazinon 4E to use | |
|--|---------------------------|---------------------|
| | per 3 gals. water | per 100 gals. water |
| Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dopterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Oblique root weevils, Omnivorous leafhoppers, Pruner mites, Scale crawlers: Colony cushion, Lecanium, Pine needle San Jose scale, Thrips, Two-spined spider mites, Juniper Webworms, Whiteflies | 1/2 fl. oz.* | 1 pt.* |
| Apple-and-thorn sawflylarvae, Crane-fly webworms, Fall webworms, Hemlock cherries, Oak looper, Obliquebanded leafroller, Pear slugs, Tent caterpillars | 1 1/2 fl. oz.* | 3 pts.* |

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

Minnow Weevil: 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.

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

| Pests | Rate per 1,800 sq. ft. | | Remarks |
|---|------------------------|---------|---|
| | 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, Bermudagrass mites, Clover mites, Springtails (Collembola), Crickets, Cutworms, Digger weevils, Earwigs, Flea beetles, Fleas, Lawn billbugs, Leafhoppers, Sod webworms (Lawn moth), Sowbugs (pillbugs) | 2-3 fl. oz. | 3 gals. | Spot spray anthills and wasp ground nest openings. For digger weevils, apply at dusk when the weevils are not active. For fire flies, mow grass and water well before treatment but delay application until grass is dry. |
| Brown dog ticks, Chiggers, Fleas | 3 fl. oz. | 3 gals. | Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house. |
| Hyperodes weevil | 3 fl. oz. | 3 gals. | Treat problem areas in mid-April and again in mid-May. |
| Mitepeas | 3 fl. oz. | 3 gals. | |
| Rhodesgrass scales | 3 fl. oz. | 3 gals. | Apply when crawlers first emerge. |
| White grubs (such as Japanese beetle larvae, European chafers, Southern chafers) | 3 fl. oz. | 3 gals. | Apply any time between late July and early October. |

Mulch Pests Outside the Home

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Fleas, Mitepeas, Sowbugs (Pillbugs), Spiders, and Springtails (Collembola).

Mix 3 fl. oz. in 3 gals. of water.

Thoroughly spray window and door screens and sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. Repeat application as necessary.

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

Storage and Disposal

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

Pesticide: Pesticide wastes are toxic. Improper disposal of empty pesticide containers, spray mixtures, or residues 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.

For inner spills, leaks, etc., follow all precautionary instructions on the label, and clean up immediately. Take 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, call 1-800-888-3372 day or night.