



**COMPANY
NUMBER**

28293

**PRODUCT
SERIAL NO.**

229

**LABEL
APPROVAL
DATE**

3-22-93

28293-2
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY MAR 22 1993

Until Reregistration

Unicorn Diazinon 4E

160 5436378
18/1

Unicorn Laboratories
1000 118th Avenue North
St. Petersburg, FL 33716

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 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:

a. Add the phrase "EPA Registration No. 28293-229

b. On the front panel the statement should read:

....."For Use by Pest Control Operators/Commercial Applicators only".

c. Submit a new Confidential Statement of Formula (CSF) certifying upper certified limits for impurities found in this product.

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

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

| Enclosure | | CONCURRENCES | | | | | |
|-----------|---------|--------------|--|--|--|--|--|
| SYMBOL | | | | | | | |
| SURNAME | Moats | | | | | | |
| DATE | 3/18/93 | | | | | | |

UNICORN
DIAZINON 4E

For Pest Control Indoors Including Food and
Feed Handling Establishments.
Outdoors Use Only on Home Lawns and
Landscaped Areas Around the Home.

Recommended for Commercial/Industrial Use Only

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..... 47.5%

INERT INGREDIENTS:*..... 52.5%

100.0%

* Contains xylene range aromatic solvent.

Contains 4 lbs. Diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side/Back Panel for Additional Precautionary Statements

NET CONTENTS: _____ OUNCES

MANUFACTURED BY:

Unicorn Laboratories
1000 118th Avenue North
St. Petersburg, FL 33716

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.

EPA Reg. No. 28293-

ACCEPTED
with COMMENTS
in EPA Letter Dated

EPA Est. No. 28293-FL-1

MAR 22 1993

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

28293-229

PRECAUTIONARY STATEMENTS

Hazards 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 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 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.

Environmental Hazards

This product is 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 the product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, if waterfowl, i.e., 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 to residues remaining on the treated area. Do not apply this pesticide or allow it to drift to blooming plants if bees are visiting the treatment area.

Physical and Chemical Hazards

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

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 excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes 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: 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.

Containers One Gallon and Smaller: Do not reuse container. Wrap and discard in trash.

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

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 the Manufacturer or the Seller. All such risks shall be assumed by the Buyer.

Manufacturer 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. Manufacturer makes no other express or implied warranty of Fitness or Merchantability or any other express or

implied warranty. In no case shall the Manufacturer or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Manufacturer 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 the Manufacturer.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

This product is an emulsifiable concentrate and is intended for use by pest control operators. Apply the product after dilution with water for the control of those pests specified on this label. This product is not intended for use in preparing oil 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 also approved for use in USDA Meat and Poultry plants. In food and feed areas of food/feed handling establishments, this product 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.

This product 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, brown dog ticks, carpet beetles, cockroaches (waterbugs), scorpions and spiders.** In households and in food and feed areas of food/feed handling establishments, this product also aids in the control of the following exposed stages of pantry pests which come into contact with treated surfaces: **drugstore beetle, cigarette beetle, flour beetle, Indian meal moth, rice weevil, 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 this 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 the 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 asphalt materials such as tiles 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 spotting 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 fee. (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 laundry clothing before wearing again.

Mixing Instructions: Dilute concentrate with water to make 1/2% or 1% spray and apply as indicated below:

| GALS. OF FINISHED SPRAY | AMOUNT OF CONCENTRATE 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.

Indoor Use (Except Food and Feed Handling Establishments) Households, Apartments, and Non-Food 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. Fresh bedding should be placed in animal quarters following treatment. Do not treat animals with this formulation.

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.

FOOD AND FEED HANDLING ESTABLISHMENTS Places other than private residences in which exposed food or feed are held, processed, prepared or served (includes restaurants, canneries, bakeries, food processing plants, mills, dairies, and USDA Meat and Poultry Plants). 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, (dry, cold, frozen or raw), packaging (canning, bottling, and grinding): enclosed processing systems (mills, dairies, and systems for processing edible oils and syrups).

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.

Limited Spot Treatment: Apply this product diluted to 1/2-1% as a coarse, low-pressure fan spray around water pipes and door frames, to surfaces 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 individual spot treatment to an area no larger than 20% of the surface area. Any individual spot must not exceed 2 square feet.

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.

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

Spot Treatment: Apply this product diluted to a 1/2 - 1% spray, 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 pallets, 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 area 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. (7) Avoid overlapping of spray (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, Gladioli, 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, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur. Try to spray underside of leaves and penetrate dense foliage.

| INSECTS | AMOUNT OF CONCENTRATE TO USE | |
|---------------------------|------------------------------|---------------------|
| | Per 3 gals. water | Per 100 gals. 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 | 1/2 fl. oz.* | 1 pt. * |
| Obscure root weevils | | |
| Omnivorous leaf tiers | | |
| Privet mites | | |

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Pests on Ornamental Plants (continued)

Scale Crawlers:

- Cottonycushion
- Lechanium
- Pine needle
- San Jose scale
- Thrips
- Twospotted mites
- Webworms
- Whiteflies

(see Previous Page)

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Apple-and-thorn skeletonizers

Cotoneaster webworms

Fall webworms

Hemlock chermes

1-1/2 fl.oz.*

3 pts.*

Oak loopers

Obliquebanded leafrollers

Pear slugs

Tent caterpillars

* 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.

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

RATE PER 1,000 SQ. FT.

INSECTS

CONCENTRATE

WATER

Lawn chinch bugs

2-3 fl. oz.

3 gals.

Remarks: 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 wasps, Earwigs,

2-3 fl. oz.

3 gals.

Fruit flies, Lawn billbugs,

Leafhoppers,

Sod webworms (Lawn moth),

Sowbugs (pillbugs)

Remarks: Spot spray anthills and wasp ground nest openings. For digger wasps apply at dusk when the wasps are not active. For fruit 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.

Remarks: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.

10 8 10

| | | |
|------------------|-----------|---------|
| Hyperodes weevil | 3 fl. oz. | 3 gals. |
|------------------|-----------|---------|

Remarks: Treat problem areas in mid-April and again in mid-May.

| | | |
|------------|-----------|---------|
| Millipedes | 3 fl. oz. | 3 gals. |
|------------|-----------|---------|

| | | |
|--------------------|-----------|---------|
| Rhodesgrass scales | 3 fl. oz. | 3 gals. |
|--------------------|-----------|---------|

Remarks: Apply when crawlers first emerge.

| | | |
|---|-----------|---------|
| White grubs (such as Japanese beetle larvae, European chafer, Southern chafer) | 3 fl. oz. | 3 gals. |
|---|-----------|---------|

Remarks: Apply any time between late July and early October.

Nuisance Pest Outside the Home

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, 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.

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