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NOV 30 1993

Ms. Glenda Haage
Riverside Terra Corporation
600 Fourth Street
P.O. Box 6000
Sioux City, IA 51102-6000

Dear Ms. Haage:

Subject: Amendment - Revise per Agency letter
dated August 2, 1993

Diazinon 4EP

EPA Reg. No. 9779-212

Your submission dated September 27, 1993

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records. The following revisions should be made when preparing the actual finished labeling:

- 1) On the front panel under **THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS**, add: For pest control indoors including food and feed handling establishments. Outdoors use only on home lawns and landscaped areas around the home.
- 2) Under the front panel **Ingredients Statement**, revise:
"** Includes aromatic petroleum solvent" to read
"** Contains xylene range aromatic solvent".

[Note: The quotation marks appearing around recommended text are not to be reproduced on the actual labeling.]

- 3) In the **Note to Physician**, revise "Solvent may be present aspiration hazard." to read "Solvent may present aspiration hazard."
- 4) In the fourth sentence of the **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** text, revise "or fine mist" to read "or spray mist".
- 5) In item "2" of the **PRECAUTIONS** for **INDOOR USE**, delete the extra space in "well-ventilated". Also, in item "17" of this same section, revise "wit soap" to read "with soap".

- 6) Revise the paragraph describing indoor use in areas other than food and feed handling establishments (i.e., the first paragraph under the Mixing Instructions table) to read as follows:

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).

- 7) In the directions for control of Carpet Beetles, revise "ion shelving" to read "on shelving".
- 8) The first paragraph under the heading **Food/Feed Areas of Food/Feed Handling Establishments** should be revised to read as follows:

Includes areas for receiving, storage (dry, cold, frozen, raw), preparing (cleaning, slicing, cooking, grinding), serving (when food is exposed and facility is in operation), packaging (canning, bottling, wrapping, boxing), edible waste storage, and enclosed processing systems (mills, dairies, and systems for processing edible oils and syrups).

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

- 9) In the **OUTDOOR USE** directions, in the section entitled **Pests of Ornamental Plants**, relocate "Try to spray underside of leaves and penetrate dense foliage." to appear just 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.
- 10) Revise the first block of pest names in the pest/rate table under the heading **Pests of Ornamental Plants** to read as follows:

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, Obscure root weevils,

Omnivorous leaftiers, Privet mites, Scale
Crawlers (Cottonycushion, Lecanium, Pine needle,
and San Jose), Thrips, Two-spotted spider mites,
Juniper webworms, Whiteflies

- 11) In the second block of pest names in the pest/rate table under the heading **Pests of Ornamental Plants**, correct "Hemlock cherms" to read "Hemlock chernes". Also, you may want to delete the period at the end of the pest listing, i.e., the period after "caterpillars".
- 12) Make the following revisions to the table of directions for **Home Lawn Pests**:
 - a) Revise "Fritflies" to read "Frit flies" and revise "(Lawn moth)" to read "(Lawn moths)" in the second group of pests. Also, delete the period after "(pillbugs)".
 - b) In the **Remarks** for Brown dog ticks, Chiggers, and Fleas, revise "sprat grass" to read "spray grass".
 - c) In the **Remarks** for Hypedrodes weevil, delete the extra space in "mid-April".

Labeling released for shipment after the deadline imposed by the Diazinon Registration Standard, as amended, must be the revised amended label.

IMPORTANT: Please note that a revised Confidential Statement of Formula (CSF) must be submitted for this product. As specified in the Diazinon Registration Standard, CSFs for diazinon products must include upper certified limits for the four impurities of toxicological concern to the Agency, as specified in the Diazinon Registration Standard. The CSF on file for this product does not contain the required information on impurity levels. Please contact Ms. Carolyn Bussey of Ciba-Geigy (919-632-2838) for assistance in preparing the revised CSF, which must also include certain required certification statements. At this time also, please ask Ms. Carolyn Bussey for an authorization letter to use Ciba-Geigy's product specific data to support reregistration of your product.

Sincerely,

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

ACCEPTED
with COMMENTS
in EPA Letter Dated

4311

NOV 30 1993

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

9779-212

RIVERSIDE/TERRA LOGO

FOR USE BY PEST CONTROL OPERATORS
THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS
DIAZINON 4 EP

ACTIVE INGREDIENT

Diazinon [O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate*]	47.6%
INERT INGREDIENTS**	52.4%
TOTAL	100%

*Product contains 4 pounds of diazinon per gallon.
** Includes aromatic petroleum solvent.

STOP- READ LABEL BEFORE USING!

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 plenty of 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 be present aspiration hazard. Gastric lavage may be indicated if product was taken internally. Diazinon is an organophosphorus insecticide. If symptoms of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

EPA Reg. No. 9779-212

EPA Est. No. 9779.

Manufactured For

RIVERSIDE/TERRA CORPORATION

Terra Centre, 600 Fourth St., Sioux City, IA 51101

Riverside Serves Agriculture. Agriculture Serves Everyone.

NET CONTENTS
GALLONS

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 fine mist. Wash thoroughly with soap and water after handling, and before smoking or eating. Remove contaminated clothing and wash before re-use. 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 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.

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. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between Nov. 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 overlapping of sprays. For lawns, if waterfowl (i.e. ducks or 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 the 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 drift to blooming plants if bees are visiting the treatment areas.

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

It is a violation of 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: 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 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 minor spills, leaks, et c., follow all the precautions indicated on this 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 CHEM TREC, 1-800-424-8892.

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GENERAL INFORMATION

Diazinon 4EP is an emulsifiable concentrate containing 4 lb. of diazinon per gallon. It is intended for use by pest control operators after dilution with water for the control of those insects listed below. Diazinon 4 EP is not intended for use in preparing oil-based sprays. Pest control operators who prefer oil-based sprays should use Diazinon 4 SP.

This product may be used indoors in households, apartments, and other structures including schools (except classrooms in use), hospitals (except patient rooms while occupied), office building, 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 4EP 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 4EP 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 4EP 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 aids in the control of the following exposed stages of pantry pests which come into contact with treated surfaces:

drugstore beetle, confused 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 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 while in use. (9) In institutions (including but 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 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 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.

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MIXING INSTRUCTIONS

Dilute Diazinon 4EP with water to make 1/2% or 1% spray and apply as indicated below.

Gallons of finished spray	Amount of Diazinon 4EP to use for 1/2% spray	Amount of Diazinon 4EP to use for 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.
25	32 fl. oz.	64 fl. oz.

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 waterpipes, 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 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 ion 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, Confused 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, dairies, and USDA Meat and Poultry Plants). Diazinon 4EP may be used in the food/feed areas and the non-food/feed areas of these establishments. Apply Diazinon 4EP 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 air), 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/FEED AREAS OF FOOD HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT IS 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 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 small amounts directly into cracks and crevices in such areas as expansion joints, spaces between equipment and the floor, openings leading to voids, and hollow spaces in walls and equipment legs and bases.

Non-Food/Non-Feed Areas of Food/Feed 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 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 pallets; and to storage areas where cockroaches, ants, silverfish, and spiders hide.

OUTDOOR USE

Control of pests on lawns and 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' expose to direct treatment or to residues on blooming plants. Do not apply this product or allow it to drift 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. Do not exceed maximum permitted label rates, since rates above those recommended will significantly increase potential hazard 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-sleeve shirt and long pants while 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.

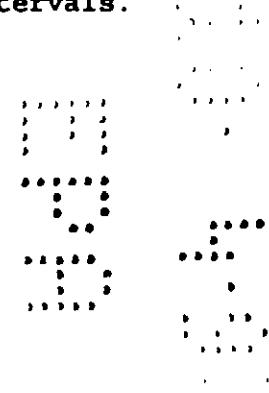
Pests of Ornamental Plants

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, Poinsettias, 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 4EP to use	
	per 3 gal. water	per 100 gal. water
Aphids, Bagworms, Carnation budmites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shootmoths, European red mites, Flea beetles, Holly budmoths, Leafhoppers, Obscure root weevils, Omnivorous leaf tiers, Privet mites, Scale crawlers: Cottony cushion, Lecanium, Pine needle. San Jose scale, Thrips, Two-spotted spider mites, Juniper webworms, Whiteflies.	1/2 fl.oz.*	1 pt.*
Apple-and-thorn skeletonizers, Cotoneaster webworms, Fall webworms, Hemlock cherms, Oak loopers, Oblique-banded leafrollers, Pear slugs, Tent caterpillars.	1 1/2 fl.oz.*	3pt.*

*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.



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

Pests	Rate per 1000 sq. ft.		Remarks
	Diazinon 4EP	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, Diggerwasps, Earwigs, Fritflies, Lawn Billbugs, Leafhoppers, Sod webworms (Lawn moth), Sowbugs (pillbugs).	2-3 fl.oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk when the wasps are not active. For frit 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, sprat 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
Millipedes	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 chafer, Southern chafer)	3 fl.oz.	3 gals.	Apply any time between late July and early October.

Nuisance Pests 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 to a height of 2-3 feet. Repeat application as necessary.

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NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose 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 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.

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