Ms. Barbara Kairies Chem-Tox, Inc. 21N 988 Pepper Road Barrington, IL 60010

Subject: Amendment - Revise per Diazinon Registration Standard and the Agency's May 1, 1990 Data Call-In letter to reflect only those uses supported by Ciba-Geigy Chem-Tox Diazinon 4E EPA Reg. No. 45385-33
Your submission dated May 29, 1990

Dear Ms. Kairies:

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided the following revision is made prior to release for shiment under the amended labeling:

1) The Notice of Intent to Cancel use of diazinon on golf courses and sod farms stipulated that the prohibition "This product must not be used on golf courses and sod farms" must appear at the top of the label. Interpreting "top" as within the top half of the label, the prohibition should be relocated higher on the label, preferably under the word "Insecticide" (which is not part of this product's name, but which could be moved upward to make room for the required prohibition), or under the "For control of ..." paragraph. The prohibition should appear as a separate paragraph, and should not be incorporated into the use recommendations paragraph ("For control of ...") currently appearing at that location.

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. NOTE: When preparing your label, do not print the quotation marks that appear around revised text items specified in this letter.

Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately assended labels.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (H7505C)

AUG - 8 1990

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

15385-33

CHEM-TOX

diazinon 4E

INSECTICIDE

For control of household pests, pests in food and feed handling establishments pests on home lawns and pests of ornamentals outside the home as specified in label directions.

Recommended for commercial/industrial use only

KEEP OUT OF REACH OF CHILDREN. WARNING

Statement of Practical Treatment

If swallowed, call a physician immediately DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE Vomiting may cause aspiration pneumonia as product contains petroleum distillates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled, remove victim to fresh air and apply artificial respiration if indicated

If on skin, wash promptly with soap and water Rinse thoroughly

If in eyes, rinse eyes with plenty of water and call a physician immediately

Note to Physicien: Solvent enry present aspiration hazard. Gastric teruge rilay or indicated if product was tately internally Diazmon is an organophosphete insecticide. If symptoms of choline-lustate inhibition are present, atropine spittate by injection is antidotal. 2-PAM is clso antidotal and may be administered but only in conjunction with atrophile.

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) phosphorothicate] 475%

Inert Ingredients 52.5%

Total 100.0%

*Contains xylene range aromatic solvent EPA Reg.No.45385-33 / EPA Est.No.45385-IL-01

> diazinon 4E contains 4 lbs. of diazinon per gallon

See directions for use on panel at right

One Gallon

U. S. Standard Measure

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND

MAPORTANT: Read the enure Directions for Use and the Conditions of Sale and Warrenty before using this product. If forms are not acceptable, return the unopened product container at once.

Conditions of Sale and Werranty

The Directions for ties 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 mainter of use or application all of which are beyond the control of "Chem-Tox" or the Seller. All such risks shall be assumed by the Buyer.

Chem-Tox 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. 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 it, subject to the longoing conditions of Selle and Werranty, which may be varied only by agreement in writing signed by a duty authorized representative of Chem-Tox.

Precautionary Statements

Hazarde to Humans and Domestic Animals

WARNING

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get on skin or on clothing. Causes substantial but temporary eye damage. Do not get into eyes. Wear goggles or safety glasses when mixing or handling the concentrate. Wash thoroughly after handling and before smoking or eating. May cause contact sensitization following repeated contact with the skin of susceptible individuals. Avoid repeated contact with skin, if sensitization reactions result, consult a physician Avoid contamination of food and feed. Food utensits such as tablespoons or 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 dired. Do not contaminate ornamental fish ponds.

Statement of Practical Treatment

If swallowed, call a physician immediately DO NOT INDUCE VONITING UNLESS NO OTHER TREATMENT IS AVAILABLE Vomiting may cause aspiration pneumonia as product contains petroleum distillates. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled, remove victim to fresh air and appry artificial respiration if indicated.

If on skin, wash promptly with soap and water. Rinse thoroughly if in eyes, rinse eyes with plenty of water and call a physician immediately.

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 Hezarda

This product is highly toxic to birds, fish and wildlife including waterfowl. Birds and waterfowl feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coasi 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. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays 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. Stop irrigation before pudding occurs. Keep out of lakes, atreams, ponds, tidal marshes and estuaries. Do not apply directly to water. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where trah, shrimp, crab, and other aquatic life are important resources.

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

DIRECTIONS FOR USE

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It is a vigidition of federal lew 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 past control operators. Apply the product after dilution with water according to the directions for use for the control of those pasts specified on this label diazinon 4E is not intended for use in preparing oil base aprays.

This product may be used indoors in households, apartments, and other structures including schools (except classrooms in use), hospitals (except in petient rooms white occupied), office buildings, museums, libraries, sports facilities, stores, warehouses, and lood 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 lood/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 - Jiazinon 4E controls

ants carpet beetles brown dog (icks cockroaches (waterbucs)

scorpions 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 partry pests which come into contact with freated surfaces.

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

cautions: (1) Do not use this product indoors as an overest surface. soray or as a space soray: 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 bravis and remove pers before application. (5) Do not treat pets with this product. (6) Do not allow children or pets in treated areas until spray has direct. (7) Do not apply this product in patient rooms. or in any rooms while occupied by the elderly or infilm: (8) Do not exply 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 petrolaum distillate which may stain certain please, rubber, and eapholt malenals such as tiles and floor covernos. Do not treet such metenals (11) Avoid excessive wetting of carpets, floor coverings or unfinished materials because demage 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 contect load or feed. (15) Exposed load should be covered or removed during application. (18) All food processing sur-faces and utensils should be covered during application or thoroughly washed with soap and water before use. (17) 4 -tlothing is sprayed during application, removed clothing immedia 5.y after spraying, wash affected body areas with soap and water, and launder clothing before waanng again

Mixing Instructions

Dilute - diazinon 4E with water to make a $\frac{1}{2}$ % or $\frac{1}{2}$ % or

Gels. of finished spray	Amount *	diazinon 4E lo use for		
	Vs% apray	1% apray		
,	1 1/4 ft oz *	21/2 ft QZ		
2	21/2 fl 02	5 fl O2 · .		
3	3% ft oz	י גס וו ייור .		
10	121/2 ft oz	25 fl ez (13/5 ots)		
25	32 ff oz (2 pts.	64 ff oz (4 pts)		

^{*21/2} tablespoons = 11/4 ft oz

Indoor Use (Except Food and Feed Handling Establishmentz Households, Apartments, and Mon-Rour Aces of Offices, Schools (except classrooms in use), Libraries, Höspitels (except patient rooms while occupied), Museums 4nd, Sports Facilities (See Food and Feed Handling Establishments for special discrition when applying this product in food hundling or serving areas kill nunresidential buildings).

Cockroaches (Waterbuge), Anta, Silverfieh: Main spot applications of ½% coarse spray or apply with a painthrush to baseboards. Are all around water pipes, cracks and crevices, surfaces behind and beneath cabinets, refrigerators, sinks, stoves, and similar areas where these insects hide.

For heavy cockreech infestations, make the first application at a strength of 1% followed by monthly applications of Vr% spray The Brewn Gag Tiete: Make thorough application of a 1/2% spray to
"Infected these arcond basilboards." Whiteward door frames, wall
cracis, steeping quarters of household pets, and localized areas of
floors and floor coverings. Do not use as an overall surface spray. Fresh
bedding should be praced in annual quarters following treatment. Do
not treat anunals 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 ½% spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl

Pantry Pests - Expessed Stages (Sawtoothed grain beetle, Flour beetle, Rice weerle, Cigarette beetle, Drugetore beetle, in than meal moth): Apply a 1/s % apray to shafives and cupboards where food containers suspected of being infested are stored. Remove all food and shafiving paper before spraying. Do not replace the food packages until spray has died. Cover shefves with shefving 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

diazmon 4E either as a limited spot or crack and crevice treatment as directed below

Food/Feed Arees 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 systems).

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

Limited Spot Treatment

Apply this product diluted to ½-1% 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 ereas. Limit spot treatments to floor surfaces where pests have been seen or where they are suspected of hiding. Limit individual spot treatments to an area no larger than 20% of the surface area. Any individual spot treatment must not exceed 2 square feet.

Creck and Crevice Treatment

Apply this product diluted to ½-1% with equipment capable of delivering at pin stream of insecticide. Apply in small amounts directly into cracks and crevices in such areas as explansion 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 Feed/Food Handling Establishments: Include garbage rooms, lavelones, floor drains (to sewers) entiles and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage areas (after canning oi bottling)

Spot Treatment

Apply this product diluted to a ½-1% spray Apply as a coarse lowpressure fan apray 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 Iswns and on ornamental plants around the outside of the home.

Precautions (1) Do not use this product on amamentals or on turf areas other than around the name. (2) Do not apply this product through any type of impeace system. (3) I his product is highly take 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 waterlowl, feeding or dinning on treated area may be killed. (5) Because of the impresory hebits of certain Attentic coast waterlowl, do not apply this product to lewns in Nassau County, New York between his ember 1, and May 20. (6) Do not exceed maximum permitted lebel rates since rates above those recommenced significantly increase potential hezards to birds. (7) Avoid overlapping of significantly increase potential hezards to birds. (7) Avoid overlapping of significantly increase potential hezards to birds. (7) Avoid overlapping of learn after incentively elections, e.e., oucks, geese, can be expected in the treated lewn after incentively elections. (9) When a non-reference shirt and long watering before pudding occurs. (9) When an opinion of the product income some lapting after spraying. While him and some language remove clothing after spraying. While him and some language remove clothing after spraying. While him and some language remove clothing after spraying. While him and some language.

Pasts of Ornamental Plants: To control certain pasts on ornamentals, such strategrams, Azaisa, Birch, Bdewood, Camelai, Carriston, Chrysanthemum, Douglae fr, Elm, Gladioli, Hawthorn, Holly, Jumper, Lilac, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhodedendron, Rose, Spruce and Willow, apply the recommended rates indicated in the following chart.

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

	Amount diezmon 4E to use	
Pests	per 3 gais. water	per 100 gais. water
Aphids, Bagworms, Carnation bud mass. Carnation shoot miles, Clover mites, Cyclamen miles, Dipterous leafminers. European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leath-oppers, Obscure root weenis, Omnivorous leatiers, Privet mites, Scale crawlers Cottonycushion, Lecanium, Pine needle, San Jose scale, Thrips, Twospotted spider mites, Juniper Webworms, Whiteflies	11. oz •	1 pt *
Apple-and-thorn skeletonizers. Cotoneaster webworms, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1½ 11 OZ *	3 pts *

*1 ft oz = 2 tbsp . 16 ft oz = 1 pt

Mimose Webworm: Mix ½ II oz (1 tablespoon) in 3 gals of water (or 1 ot 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 Peats: To control pests listed below, apply recommended rates

	Rate per 1,000 sq. ft.			
Pests	diezinon 4E	Water	Remarks	
Lawn chinch bugs	2-3 fl Oz	3 gais	Use higher radgior longer residual control and imitawns of dense growth such as SI. Augustine lawns	
Ants Armyworms Bermudagrass			Spot spray anthilis and wasp ground nest openings	
mites, Clover mites, Springtails (Collembola), Crickets, Cut-		<u> </u> -	For digger wasps apply at dusk when the wasps are not ac we	
worms, Digger wasps, Earwigs Frit Hies, Lawn billougs, Leafnoppers, Sod webworms (Llawn moth) Sowbugs (pillougs)	2-3 ft oz	3 gais	For frit flies mow grass and water well before treatment but delay application until grass is dry	
Brown dog ticks Chiggers, Fleas	311 oz	3 gals	Note: Do not apply to animals For brown dog ticks spray grass and under shrubbery particul ! 'arty pair house'	
Hyperodes weevil	34 oz	3 gals	Treat ploblem areas , in mid-i prilland areas , areas in mid-May	
Milkpedes	3 ti oz	3 gals		
Rhodesgrass scales	3fl oz	3 gais	Apply when crawlers ?	
White grubs (such its Japanese beetle lancae. European chafer, Southern chafer)	3 ft oz	3 gais	Apply # iv time pertisen late Jui and early October	

Nutainee Peets Outside the Home
-Ans. Beaster Bugs, Brown Dog Ticts: Chiggers, Clover Miles.
Cochreches, Cricists, Earwigs, Fleas, Flee Millipedes, Sowbugs (Pillbugs), Spiders, and Springtails (Collembots).

Mix 3 ft. ez. in 3 gels. of wister.

Thoroughly spray window and door screens and silts, foundations, porchand page 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. Plepest application as necessary

Storage and Disposal

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

Posticide: Pesticide wastes are toxic. Improper risposal of excess pesticide, spray mixture, or rinsate is a violation of federal lew. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Emironmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container: Triple nose or equivalent. Then offer for recycling, reconditroning, or puncture and dispose of in a sandary landfill, or by other procedures approved by state and local authorities.

For minor spills, feeks, etc. followell 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 solli, fire or other emergency, contact: Chem-Tox for assistance at (708)382-5555

CHEM-TOX, INC. 21N988 PEPPER RD. BARRINGTON, IL. 60010