

Reg # 4887-163
EPA 15
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JAN 27 1986

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Mr. W.E. Blasingame
Stephenson Chemical Company, Inc.
P.O. Box 87188
College Park, GA 30337

Dear Mr. Blasingame:

Subject: Amendment - Statement of Formula and Draft Labeling
Diazinon-4E Insecticide
EPA Registration No. 4887-163
Your Application Dated August 5, 1985

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

On the Confidential Statement of Formula (CHF), please identify the source of the petroleum distillate. In addition, please indicate the pH of the product at a specified water dilution.

Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Uppercase D in Diethyl in first active ingredient name.
2. Change "Aliphatic petroleum distillates" to "Petroleum distillates."
3. Change "1-1/4," "2-1/2," and "1-1/4" in dilution directions to read "1 1/4," "2 1/2" and "1/ 1/4."
4. Delete "certain" in "Do not use on certain ferns, poinsettia, etc."
5. Add Mimosa to list of ornamentals or change "Mimosa Webworm" to "Mimosa Webworms on Mimosa."
6. Move right parenthesis between "Pine Needle and San Jose Soft Scales" to follow "Soft."

85898:LaRocca:LR-4;KEMCO:1/21/86;1/31/85:ablvq

CONCURRENCES

SYMBOL	SURNAME	DATE						
	Warkins	1-27-86						

EPA Form 1320-1 (4-81)

OFFICIAL FILE COPY

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7. Place comma after San Jose and delete the word "Scales."

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
& DOMESTIC ANIMALS
WARNING**

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling and before eating or smoking. Avoid contamination of food and feed. 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 the sprayed grass until spray has completely dried. Do not use in serving areas of restaurants while food is exposed.

STATEMENT OF PRACTICAL TREATMENT

If swallowed — Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled — Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin — Remove contaminated clothing and wash affected areas with soap and water.

If in eyes — Flush eyes with plenty of water. Call a physician immediately. Note to Physician: Diazinon 4E contains petroleum distillates. If gastric lavage is deemed necessary, do so only after properly placing an intratracheal tube. Diazinon is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Birds and other wildlife feeding on treated areas may be killed. Keep out of any body of water. Apply this product only as specified on this label. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the vegetation blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PHYSICAL OR CHEMICAL
HAZARDS**

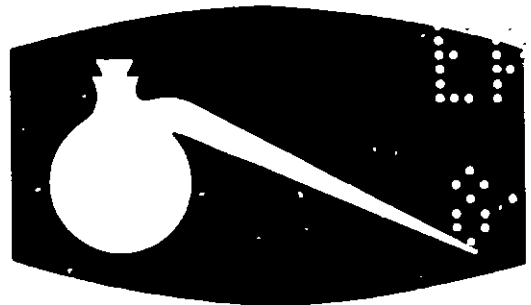
Do not use or store near heat or open flame.

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 27 1986

Under the Federal Insecticide,
Fungicide, and Rodenticide
Act as amended, this product
registered under EPA Reg.

4887-163



**DIAZINON-4E
Insecticide**

Only for Sale to, Use and Storage by Pest Control Operators

For control of cockroaches, certain other household pests, and turf and ornamental pests

ACTIVE INGREDIENTS:

Diazinon [0, 0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate].....	47.55%
Aliphatic petroleum distillates.....	26.15%
INERT INGREDIENTS.....	26.30%
Total	100.00%

Diazinon 4E contains 4 lbs Diazinon per gal

KEEP OUT OF REACH OF CHILDREN

WARNING

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured by
STEPHENSON CHEMICAL CO., INC.
COLLEGE PARK, GEORGIA 30337

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 solution containing 4 lbs. of Diazinon per gallon. It is intended for use by pest control operators after dilution with water for the control of these insects listed below. Diazinon 4E is not intended for use in preparing oil base sprays. Pest control operators who prefer oil base sprays should use Diazinon 4S.

IMPORTANT: Read the entire DIRECTIONS FOR USE and the NOTICE before using this product.

NOTE: The solvent used in this formulation is a petroleum distillate which may stain certain plastic, rubber and asphalt materials contained in tiles and floor coverings. Do not treat such materials. Care should also be taken to avoid spotting of wallpaper and fabrics. When used in dwellings, care should be taken to avoid deposits which could be frequently contacted by children. Do not allow children in treated areas until surfaces are dry. Do not contaminate food, food containers or cooking utensils.

Dilute Diazinon 4E with water to make a 1/2% or 1% Diazinon spray as follows:

1/2% spray — Use 1-1/4 fl. oz. Diazinon 4E per gal. finished spray

1% spray — Use 2 1/2 fl. oz. Diazinon 4E per gal. finished spray.

Note: 2-1/2 tablespoons = 1-1/4 fl. oz.

Apply as indicated below:

HOUSEHOLD INSECTS:

COCKROACHES (Waterbugs), ANTS and SILVERFISH: Make spot applications of 1/2% Diazinon as a coarse spray or apply with a paint brush to baseboards, area 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% Diazinon, followed by monthly applications of 1/2% Diazinon.

CARPET BEETLES: Apply a 1/2% Diazinon 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% Diazinon spray around windows, doors, and along baseboards. Make spot applications to other areas over which these pests may crawl.

PANTRY PESTS: Exposed stages (Saw-Toothed 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.

BROWN DOG TICKS IN BUILDING: Make thorough application of a 1/2% Diazinon 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.

FEED AND FOOD-HANDLING ESTABLISHMENTS: Places other than private residences in which food or feed is held, processed, prepared or served. Apply Diazinon 4E as either a spot or crack and crevice treatment as directed below. 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 percent of the floor surface. For spot treatments, no individual spot will exceed two (2) square feet. Do not apply to areas, surfaces, or utensils which will come in contact with food. Take extreme care to avoid contamination of food or food contact surfaces or introducing the material into the air.

FOOD AND NONFOOD AREAS: Food areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area. Non-food areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

SPOT TREATMENT: As a spot treatment, apply 1/2-1% as a coarse, low pressure fan spray to floor surface areas around water pipes, beneath cabinets, refrigerators, sinks, stoves, storage areas, and similar areas where cockroaches, ants, spiders, and silverfish hide.

CRACK AND CREVICE TREATMENTS: As a crack and crevice treatment, use equipment capable of delivering a pin stream of insecticide and apply 1/2-1% directly into such spaces as expansion joints between different elements of construction and between equipment bases and the floor, wall boards or in hollow equipment legs.

These treatments also aid in the control of pantry pests (exposed stages of sawtoothed grain beetle, flour beetle, rice weevil, cigarette beetle, drugstore beetle, and Indian meal moth) which come into contact with treated surfaces. Do not use this product in conduits, motor housings, and electrical switch boxes. Repeat applications as necessary.

ORNAMENTAL INSECTS: To control certain insects on ornamentals, such as Azoborvia, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

Do not use on certain Ferns, Poinsettia, Hibiscus, Papaya, Piles, and Gardenia, since injury to the plants may occur.

Mimosa Webworms: Mix 1/2 fl. oz. (1 tablespoon) in 3 gals. water (or 1 pt. in 100 gals. water) and apply as a thorough foliar spray when adults first appear. Make second and third application at 4-5 week intervals.

Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dpterous Leaf Miners, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obacure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers (Cottony-Cushion, Lecanium, Pine Needle), San Jose Soft Scale, Thrips, Two-Spotted Mite, Webworms, Whiteflies: Apply at rate of 1/2 fl. oz. (1 tablespoon) Diazinon 4E to 3 gal. water or 1 pint (16 fl. oz.) Diazinon 4E to 100 gal. water.

Apple-and-Thorn Skeletonizers, Cottonaster Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Oblique-Banded Leaf Roller, Pear Slugs, Tent Caterpillars: Apply at rate of 1 1/2 fl. oz. (3 tablespoons) Diazinon 4E to 3 gal

water or 3 pints (48 fl. oz.) Diazinon 4E to 100 gal. water.

LAWN INSECTS: To control insects listed below, apply recommended rates. For Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Collembola (Springtails), which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house as well as the house foundation wall to a height of 23 ft. Repeat application as necessary.

Lawn Chinch Bugs: Apply at rate of 23 fl. oz. or 3-6 fl. oz. Diazinon 4E to 25 gallons water per 1000 sq. ft. Use higher rate for longer residual control and in lawns of dense growth.

Ants, Armyworms, Clover Mites, Collembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Fruit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs: Apply at rate of 4 fl. oz. Diazinon 4E to 3 gals. water per 1000 sq. ft. Spot spray ant hills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For fruit flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary.

Brown Dog Ticks, Bermuda Mites, Chiggers, Fleas, Leafhoppers, Ticks: Apply at rate of 1 1/4 fl. oz. to 3 gals. water per 1000 sq. ft. Do not apply to animals. For brown dog ticks spray grass and under shrubbery, particularly near house. **Millipedes:** Apply at rate of 3 fl. oz. Diazinon 4E to 3 gals. water per 1000 sq. ft. **Rhodes-Grass Scales:** Apply at rate of 4 fl. oz. Diazinon 4E to 25 gals. water per 1000 sq. ft. when grawlers first emerge.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store away from direct sunlight in cool location. Store away from food and feed. Keep container tightly closed when not in use. Spills or leaking containers should be handled according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

EPA Reg. No. 4887-163

EPA Est. No. 4887-GA-1

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