

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20480

EPA REGISTRATION NO.

35138-63

DATE OF ISSUANCE
SEP 20 1991

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Aerochem Diazinon 4E
Insecticide

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Aerochem, Inc.
P.O. Box 45
Clinton, MS 39060-0045

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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

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

1. Submit/site 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:

- On the label: "EPA Registration No. 35138-63."
- Under the caution "Environmental Hazards" the first sentence must be stated as follows:

The product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

September 10, 1991

- c. An additional statement must be added to the sentence "Do not apply directly to water" as shown below:

Do not apply directly to water, to areas where surface water is present or to inter-tidal areas below the mean high water mark.

- d. Under the caption "Mixing Instructions" and the first sentence after the table, eliminate the comma after Establishments and add a parenthesis followed by a colon as shown below:

Indoor use (Except Food and Feed Handling Establishments):

Households, Apartments

- e. Change "Recommended for Commercial/Industrial Use Only" to:

For Use and Storage by Licensed Pest Control Operators.

- f. Use in food-handling establishments can imply use in U.S. Department of Agriculture (USDA) Meat and Poultry Plants. Therefore, either add the statement "Not for use in USDA Meat and Poultry Plants," or submit an application to USDA requesting use in these areas. If granted, you can then indicate on the label that the product can be used in these areas.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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.

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (N7505C)

Enclosures

PH 13 35138-63 3075

AEROCHEM DIAZINON 4E INSECTICIDE

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

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.

Active Ingredient: Diazinon [O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate]	47.5%
Inert Ingredients*	52.5%
Total	100.0%

*Contains xylene range aromatic solvent

Diazinon 4E contains 4 lbs. of diazinon per gallon.
See directions for use on panel at right.

KEEP OUT OF REACH OF CHILDREN.

WARNING

Precautionary Statements

Hazards to Humans and Domestic Animals

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 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 into treated areas until spray has dried. Do not contaminate ornamental fish ponds.

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 Physician: Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken internally. Diazinon is a cholinesterase inhibitor and a sedative. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered only in conjunction with atropine.

Environmental Hazards

This product is highly toxic to birds, fish and aquatic life. Birds and waterfowl feeding or drinking on treated areas may be killed. Bees, as of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between December 1 and May 30. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and aquatic life. Avoid overlapping of sprays. If waterfowl, i.e., ducks and geese can be expected in the treated area after treatment (except spot treatment) water down with at least 1/2 inch of water immediately after spraying this product. Stop irrigation before flooding occurs. Keep out of lakes, streams, 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 fish, 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.

Do not apply H₂O mark

Aerochem, Inc.
P. O. Box 45
Clinton, MS. 39060-0045

EPA Reg. No. - 35138
EPA Est. No. - 35138-MS-1

SEP 20 1961

Use the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under Act No. 35138-MS-1

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 intended to be followed to the letter. However, it is impossible to eliminate all the unknowns 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 **Aerochem** the Seller. All such risks shall be assumed by the Buyer.

Aerochem 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. **Aerochem** makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall **Aerochem** or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. **Aerochem** 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 **Aerochem**.

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 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 food 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 food areas of food/food 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 4E

Indoors **Diazinon 4E** controls:

- ants
- carpet beetles
- scorpions
- brown dog ticks
- cockroaches (waterbugs)
- spiders

In households and in food and food areas of food/food 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
- flour beetle
- rice weevil
- cigarette beetle
- Indian meal moth
- sawtooth grain beetle

Precautions: (1) Do not use this product except 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 in any rooms where 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 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 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 food. (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.

Gals. of finished spray	Amount Diazinon 4E to use for	
	1/2% spray	1% spray
1	1 1/2 fl. oz.	3 fl. oz.
2	3 fl. oz.	6 fl. oz.
3	4 1/2 fl. oz.	9 fl. oz.
10	12 1/2 fl. oz.	25 fl. oz. (1 1/4 pts.)
25	32 fl. oz. (2 pts.)	64 fl. oz. (4 pts.)

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

Indoor Use (Except Food and Food 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 Food 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.

Drown 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. Tick baiting 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 where 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 packaging 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 Food 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, USDA Meat and Poultry Plants, etc.) **Diazinon 4E** may be used in the food/food areas and the non-food/non-feed areas of these establishments. Apply **Diazinon 4E** 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).

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 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 treatments to an area no larger than 20% of the 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, spacer 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).

Diazinon 4E

Spot Treatment

Apply this product diluted in a 1/2-1% spray. Apply as a contact, knock-down spray as a spot treatment along (underneath), to areas around water pipes, beneath cabinets, to surfaces behind and underneath sinks, lockers and pantries; and to storage areas where cockroaches, ants, silverfish and spiders hide.

OUTDOOR USE

Control of pests on lawns and on ornamental plants around the outside of the home.

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) **DOCAUSE:** 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 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 and 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 ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camelia, 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 Tulips, Pansy, Petunia, Phlox, Poinsettia, 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, Cycamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Obscure root weevils, Omnivorous leafhoppers, Privet mites, Scale crawlers, Cottony cushion, Lecanium, Pine needle, San Jose scale, Thrips, Twospotted spider mites, Juniper Webworms, Whiteflies	1/2 fl. oz.	1 pt.*
Apple-and-thorn skeletonizers, Colorado beetle webworms, Fall webworms, Hummock chermis, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1/2 fl. oz.	3 pts.*

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

Alfalfa 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.

Pests	Rate per 1,000 sq. ft.		Remarks
	Diazinon 4E	Water	
Lawn grub bugs	2-3 fl. oz.	3 gals.	Use higher rate for longer residual control and in lawns of gentle growth, such as St. Augustine lawn.
Ants, Armyworms, Bermudagrass mites, Clover mites, Springtails (Collembola), Crickets, Cut- worms, Digger weevils, Earwig, Fire flies, Lawn billbugs, Leafhoppers, Sod webworms (Lawn moth), Sowbugs (pillbugs)	2-3 fl. oz.	3 gals.	Spot spray garden and weed ground root 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.
Hyporodes weevil	3 fl. oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 fl. oz.	3 gals.	
Rhodesgrass scapes	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.

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 1/2 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 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, refilling, reworking, or puncture and disposal in a sanitary manner, or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care in the termination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire or other emergency, contact CIBA-GEIGY for assistance at 1-800-888-8372 day or night.