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Systems Integration Group, Inc.

DIAZINON® 4 EC

INSECTICIDE

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS. RECOMMENDED FOR COMMERCIAL/INDUSTRIAL USE ONLY. FOR PEST CONTROL INDOORS INCLUDING FOOD AND FEED HANDLING ESTABLISHMENTS. OUTDOORS USE ONLY ON HOME LAWNS AND LANDSCAPED AREAS AROUND THE HOME.

ACTIVE INGREDIENT:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 48.00%

INERT INGREDIENTS* 52.00%

TOTAL 100.00%

*Contains xylene range aromatic solvent

Diazinon 4 EC contains 4 lbs. of diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Additional Precautionary Statements Inside Booklet

EPA REG. NO.: 5905-525

NET CONTENTS:

EPA EST. NO.:

First letters of product batch code indicate producing establishment:

5905-GA-1=CG, 5905-AR-1=WA, 5905-CA-1=KC, 5905-IA-1=DI

ACCEPTED

JUN - 2 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5905-525

**MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119**

**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 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 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 November 1 and May 20. Do not exceed maximum permitted labels rates since rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, if waterfowl (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 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 washwaters.

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

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

GENERAL INFORMATION

DIAZINON 4 EC 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 4 EC** 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 (including Federally inspected meat and poultry plants). Read and follow the **Precautions** listed below when applying this product in any of these indoor areas. In food and feed areas of food/feed handling establishments, **DIAZINON 4 EC** 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 4 EC 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 4 EC** 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 | FLOUR BEETLE | RICE WEEVIL |
| CIGARETTE BEETLE | INDIAN MEAL MOTH | SAWTOOTH GRAIN BEETLE |

Indoor Use Precautions:

Applicator Safety

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.

Application Method and Location Precautions

DO:

1. Apply only in well-ventilated areas.
2. Remove or cover fish bowls and remove pets before application.
3. Cover or remove exposed food during application.
4. Cover all food processing surfaces and utensils during application or thoroughly wash surfaces and utensils with soap and water before use.

DO NOT:

1. Use this product indoors as an overall surface or space spray.
2. Introduce the product into the air during application.
3. Apply where children are likely to frequently contact treated surfaces.
4. Allow children or pets in treated areas until spray has dried.

5. Apply in patient rooms or in any rooms while occupied by the elderly or sick.
6. Apply to classrooms when in use.
7. Apply when people are present in the area to be treated in institutions including, but not limited to, office buildings, museums, libraries, and sports facilities.
8. Treat pets with this product.
9. Apply directly to conduits, motor housings, or electrical switch boxes.
10. Apply to areas, surfaces, or utensils which will contact food or feed.
11. Apply to drains or sewers because this product is toxic to some aquatic species.

Household Item Precautions

1. The solvent in this product is a petroleum distillate which may stain certain plastic, rubber, and asphalt materials such as tiles and floor coverings. Do not treat such materials.
2. Avoid excessive wetting of carpets, floor coverings, or unfinished materials because they may be damaged.
3. Avoid spotting of walls, wall coverings, and fabrics.

MIXING INSTRUCTIONS

Dilute DIAZINON 4 EC with water to make a ½% or 1% spray and apply as indicated below.

Gallons of finished spray	Amount of DIAZINON 4 EC to use for	
	½% spray	1% spray
1	1¼ fl. oz.*	2½ fl. oz.
2	2½ fl. oz.	5 fl. oz.
3	3¾ fl. oz.	7½ fl. oz.
10	12½ fl. oz.	25 fl. oz. (1 3/5 pts.)
25	32 fl. oz. (2 pts.)	64 fl. oz. (4 pts.)

*2½ tablespoons = 1¼ 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 nonresidential buildings).

COCKROACHES (Waterbugs), Ants, Silverfish: Make spot applications of ½% 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 ½% spray.

BROWN DOG TICKS: Make thorough application of a ½% 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. Fresh bedding should be placed in animal quarters following treatment. Do not treat animals with this product.

CARPET BEETLES: Apply a ½% 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 - EXPOSED STAGES (Sawtoothed Grain Beetle, Flour Beetle, Rice Weevil, Cigarette Beetle, Drugstore Beetle, Indian Meal Moth): Apply a ½% 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 Federally inspected meat and poultry plants). DIAZINON 4 EC may be used in the food/feed areas and the non-food/non-feed areas of these establishments. Apply DIAZINON 4 EC either as a limited spot or crack and crevice treatment as directed below.

Food/Feed Areas of Food/Feed Handling Establishments

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.

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 similiar 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 ½ - 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, laboratories, 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. 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

Outdoor Use Precautions:

Location Precautions

DO NOT:

Use this product on ornamentals or on turf areas other than around the home.

Protecting Non-target Species/Application Precautions

DO NOT:

1. Apply this product or allow it to drift to blooming plants if bees are visiting the treatment area because this product is highly toxic to bees exposed to direct treatment or residues on treated plants.
2. Apply this product to lawns in Nassau County, New York between November 1 and May 20. This is to protect certain Atlantic coast migratory waterfowl.
3. Exceed maximum label rates since higher rates significantly increase the risk to birds and waterfowl. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. If waterfowl, such as ducks or geese, can be expected on the treated lawn after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying, but stop watering before puddling occurs.
4. Overlap sprays.
5. Apply this product through any type of irrigation system.

Applicator Safety

1. Wear a long-sleeved shirt and long-legged pants when spraying.
2. Spray with the wind to your back.
3. Do not spray on windy days.
4. If clothing becomes wet from spray, 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, Crab Apple, Dogwood, Douglas fir, Elm, Euonymus, Gladioli, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Lilly, Locust, Maple, Marigold, Oak, Pansy, Petunia, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood and Yew, apply the recommended rates indicated in the following chart. Try to spray underside of leaves and penetrate dense foliage. Spray when listed pests first appear. Repeat as necessary.

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

PESTS	AMOUNT DIAZINON 4 EC 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, Obscure root weevils, Omniverous leaf tiers, Privet mites, Scale crawlers: Cottonycushion, Lecanium, Pine needle, San Jose scale, Thrips, Two-spotted spider mites, Juniper Webworms, Whiteflies	½ fl. oz.*	1 pt.*
Apple-and-thorn skeletonizers, Cotoneaster webworms, European Pine Sawfly, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1½ fl. oz.*	3 pts.*

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

Mimosa Webworm: Mix ½ 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 to 5 week intervals.

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

PESTS	RATE PER 1000 SQ. FT.		REMARKS
	DIAZINON 4 EC	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, Bermuda-grass mites, Clover mites, Springtails (<i>Collembola</i>), Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Leafhoppers, Sod webworms (Lawn moth), Sowbugs (pillbugs)	2-3 fl. oz.	3 gals.	Spot spray anthills and wasp ground nest openings. For digger wasps, apply at dusk when the wasps are not active. For frit flies, before treatment mow grass and water well 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.
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 5 ft. 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.

Note: Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance pest rate.

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, 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. In the event of a major spill, fire, or other emergency, call 1-800-888-8372 day or night.

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man, or the environment. The Company warrants that this product conforms to the chemical

description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability, and remedies.

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