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R. Maldonado & Co., Inc.  
c/o Ms. Geraldine Werdig  
Stewart Pesticide Registration Assoc., Inc.  
Crystal Plaza One, Suite 603  
2001 Jefferson Davis Highway  
Arlington, VA 22202

Dear Ms. Werdig:

Subject: Amendment - Revise per Agency letter  
dated August 2, 1993  
Maldonado Diazinon 4E Insecticide  
EPA Reg. No. 30950-1  
Your submission dated October 15, 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) Capitalize the "F" of "Federal" appearing in the first sentence under the heading **DIRECTIONS FOR USE**.
- 2) 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).

- 3) 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 the end of the preceding paragraph (i.e., 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.

- 4) In the first block of pest names in the pest/rate table under the heading **Pests of Ornamental Plants**, revise "Twospotted spider mites" to read "Two-spotted spider mites".

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.

Sincerely,

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

**R. Maldonado**  
**Diazinon 4E**  
**INSECTICIDE**

**ACCEPTED**  
 NOV - 8 1993  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 30950-1

**INSECTICIDE**

Recommended for commercial/industrial use only.

For pest control indoors including food and feed handling establishments. Outdoor use only on some lawns and landscaped areas around the home.

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

Active ingredient: Diazinon: O,O-Dimethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate ..... 47.5%

Inert ingredients \* : ..... 52.5%

**TOTAL: 100.0%**

\* Contains xylene range aromatic solvents.

(M) contains 4 lbs. of diazinon per gallon.

Five Gallons  
 U. S. Standard Measure

EPA Reg. No. 30950-1 EPA Ex. 30950-PR-1  
 See directions for use on panel at right.

**KEEP OUT OF REACH OF CHILDREN.**  
**CAUTION**  
 Precautionary Statements

**Warnings to Humans and Domestic Animals**

Avoid breathing vapors, mists or aerosols through nose. Causes irritation of eyes, nose, throat and skin, dizziness, nausea, vomiting, headache, drowsiness, weakness, and loss of coordination. Wash thoroughly with soap and water after handling and before eating or drinking. Avoid contact with clothing and other persons. Avoid contamination of food and feed. Feed animals such as horses, dogs and cats only if necessary. Do not use for food purposes after use in residential premises. Keep out of reach of domestic animals. Do not use on lawns, nurseries, golf, or tennis. Do not permit children or pets to go into treated areas until spray has dried. Do not contaminate ornamental fish ponds.

**Statement of Precautionary Treatment**

If symptoms: Call a physician or poison center every 15 minutes. DO NOT INDUCE VOMITING. Vomiting may cause absorption 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 profusely with plenty of 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:** Solvents may present absorption hazard. Gastric lavage may be indicated if product was taken recently. Diazinon is an organophosphate insecticide. If symptoms of cholinergic inhibition are present, prompt action by injection is essential. 2-PAM is an antidote and may be administered, but only in conjunction with atropine.

**Environmental Hazards**

This product is highly toxic to birds, fish and other aquatic life. Avoid contact with water, including or drinking on treated areas may be killed. Apply this product only as directed on this label. Because of the migratory habits of certain Avian Game species, do not apply this product in game in Nassau County, New York between November 1 and May 31. Do not exceed maximum permitted label rate and rate above these maximums. Avoid overlapping of spray. For lawn, if water, oil, grease and other substances are present on the treated area prior to treatment, remove these substances with water and soap. In case of water contamination after spraying with product, remove with vacuum before sucking out. Keep out of lakes, streams, ponds, hot springs and swamps. Do not spray directly to water to avoid surface water or runoff, or to treated areas down the main high water mark. Dike and fence may be necessary to exclude organisms in neighboring areas. Sprays and dust may be used in application rates recommended on this label. Do not spray where fish, poultry, bees and other animals are vulnerable resources. Do not contaminate water by cleaning of equipment or disposal of containers with water.

This product is highly toxic to some animals in great numbers of rodents on untreated areas. Do not spray this product or allow it to get in burning areas if trees are within the treatment area.

**Prevention of Chemical Hazards**

Do not use, store, sell, or store near heat or open flame.

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Note: (M) stands for the words "R. Maldonado & Co., Inc. Diazinon 4E".

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**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 believed to be realistic and should be followed carefully. However, it is impossible to guarantee all uses, especially those with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other insects, or the manner of use or application of which are beyond the control of the Seller. All such risks shall be assumed by the Buyer.

warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Conditions for Use subject to the exceptions hereinafter set forth.

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

**DIRECTIONS FOR USE**

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

**General Information**

(M) 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 these pests specified on this label. (M) 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. 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,

(M) may be applied only as a crack and crevice treatment or living spot treatment. See the specific directions for use for treatment of these areas.

(M) 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**

Insects (M)	Control:
ants	carpet beetles
brown dog ticks	cockroaches (kitchen)
	scorpions
	spiders

In households and in food and feed areas of food/feed handling establishments, this product can be used in the control of the following exposed stages of hairy 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 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 tanks and remove goldfish before application. (5) Do not treat pets with this product. (6) Do not apply to children's toys in treated areas until spray has dried. (7) Do not apply this product in patient rooms or in any rooms where occupied by the elderly or infirm. (8) Do not apply to cockroaches when in use. (9) In establishments (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 plastics, rubbers and other 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, ceiling coverings, and fabrics. (13) Do not apply directly to electrical meter housings or electrical switch boxes. (14) Do not apply to areas, surfaces, or utensils which are 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 cleaning is required during application, remove covering immediately after spraying, wash affected body areas with soap and water, and launder clothing before wearing again.

Note: (M) stands for the words "R. Maldonado & Co., Inc. Diazinon 4E".

or in connection with the warranty, it stands for the name of the company "R. Maldonado & Co., Inc."

**Mixing Instructions**

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

Gall. of finished spray	Amount to use for	
	1/4% spray	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. (1 1/2 pts.)
25	32 fl. oz. (2 pts.)	64 fl. oz. (4 pts.)

\*2 1/2 tablespoons = 1 1/4 fl. oz.

**Indoor Use - 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 (Kitchens), Ants, Silverfish Moth and Generators of 1/4% coarse spray or apply with a brush/brush to baseboards, areas around water pipes, cracks and crevices, surfaces behind and beneath cabinets, refrigerators, stoves, ranges, and other areas where these insects nest.**

For heavy cockroach infestations, make the first application at a strength of 1%, followed by monthly applications of 1/4% spray.

**Brown Dog Ticks:** Make thorough application of a 1/4% spray to treated 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 spacing treatment. Do not treat animals with this product.

**Carpet Beetles:** Apply a 1/4% spray in spot applications along baseboards and edges of carpeting, under carpeting and rugs and furniture, in closets and on shaving, and wherever these insects are seen or suspected.

**Spiders and Scorpions:** Apply a 1/4% spray around windows, doors, and along baseboards. Make spot applications in other areas over which these pests may crawl.

**Furry Pets - Exposed Stages (Sawtooth grain beetle, Flour beetle, Rice weevil, Cigarette beetle, Drugstore beetle, Indian meal moth):** Apply a 1/4% 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). (M) may be used in the food/feed areas and the non-food/non-feed areas of these establishments. Apply (M) either as a crack and crevice spray or as directed below.

**Food/Feed Areas of Food/Feed Handling Establishments:** include areas for receiving, serving, storage, dry, cool, fresh or hot, packaging (canning, bottling, and grinding); encloses processing systems (mills, dairies, and systems for processing eggs, etc. and by-products).

**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 RECOMMENDED.**

**Limited Spot Treatment**

Apply this product diluted to 1/2-1% as a coarse, pre-treatment for spray around water pipes and door frames, to surfaces beneath cabinets, refrigerators, stoves, ranges, storage areas, and other 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 a CRACK AND CREVICE TREATMENT spray in small amounts of insecticide. Apply in small amounts directly into cracks and crevices in such areas as baseboard joints, spaces between equipment and the floor, openings leading to voids, and heavy objects in walls and equipment legs and bases.

**Non-Food/Non-Feed Areas of Food/Feed Handling Establishments:** include garbage rooms, washrooms, hot yards (to prevent), areas and vestibules, offices, locker rooms, machine room, etc. of rooms, mop closets and storage areas (after drying of bottom).

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**Spot Treatment**

Apply this product diluted to a 1/2-lb spray. Apply as a spot, low-pressure fan spray as a spot treatment being necessary, to areas around water pipes, beneath cabinets, in surfaces behind and beneath sinks, floors and panels; and to storage areas where cockroaches, ants, silverfish and spiders nest.

**OUTDOOR USE**

Control of pests on lawns and on ornamentals around the home only.

**Precautions:** (1) Do not use this product on ornamentals or on soil 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 flowering plants. Do not apply this product or allow it to wet or dampen plants if bees are visiting the treated area. (4) Birds, especially waterfowl, feeding or resting on treated areas may be killed. (5) Because of the extremely flammable vapors of certain Aerials, do not apply this product to lawns in Nassau County, New York between November 1 and May 31. (6) Do not allow children to play on treated areas until the grass has dried. (7) Avoid over-saturation of lawns. (8) If watered, LA, GRASS, grass, can be expected in the treated area after treatment (except spot treatments) wear them out of lawn 1/2 inch or water immediately after spraying this product, otherwise some watering gear is required. (9) Wear a long-sleeved shirt and long-panted 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 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 Azaleas, Apples, Birch, Barwood, Camellia, Carnation, Chrysanthemum, Douglas fir, Elm, Gladiolus, Hawthorn, Holly, Juniper, Lilac, Lobelia, Magnolia, Oak, Pine, Ornamental Plum, Poinsettia, Rhododendron, Rose, Spruce and Wisteria, spray the recommended rates stated in the following chart.

Do not use on Ferns, Fuchsia, Hibiscus, Peonies, Pines and Geraniums, since injury to the plants may occur. Try to spray underside of leaves and generate dense foliage.

Pest	Amount to use	
	per 3 gal. water	per 100 gal. water
Aphids, Bagworms, Carnation bud moth, Carnation shoot moths, Clover moths, Cycamen moths, Daphne leafminers, European pine shoot moth, European red moth, Flea beetles, Holly bud moth, Lacewing, Oblique root weevil, Omnivorous leafhoppers, Pine moth, Scale crawlers, Coccinellid, Lecanium, Pine needle, San Jose scale, Thrips, Two-spotted spider mite, Winter webworms, Winter	1/2 fl. oz.	1 pt.
Above-and-below leafhoppers, Coccinellid weevils, Fox webworms, Hornet caterpillars, Oak root borer, Ombrotentid leafhoppers, Pear bug, Tent caterpillars	1 1/2 fl. oz.	3 pt.

\*1 fl. oz. = 2 tbsp.; 16 fl. oz. = 1 pt.  
Milky Weevils: Mix 1/2 fl. oz. in 3 gal. of water (or 1 pt. in 100 gal. of water) and spray as a thorough leaf spray when adults first appear. Make a second and third application at 4-6 week intervals.

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

Pests	Rate per 1,000 sq. ft.		Remarks
	(M)	Water	
Lawn chinch bugs	2-3 fl. oz.	3 gal.	Use higher rate for longer residual control and in areas of coarse grass, such as St. Augustine lawn.
Aerials, Armyworms, Bermudagrass stem, Cutworm, European (Colorado), Crane, Cutworm, Digger weevil, Earwig, Fire fly, Lawn billbug, Leafhopper, Sod webworm (Lawn moth), Springtails (billbugs)	2-3 fl. oz.	3 gal.	Spot spray around and under ground nest openings. For digger weevil, spray as soon as the weevil are not active. For fire fly, mow grass and water well before treatment and delay application until grass is dry.
Brown dog tick, Chigger, Flea	3 fl. oz.	3 gal.	Note: Do not apply to animals. For brown dog tick, spray grass and under shrubbery, particularly near house.
Hydrocodon weevil	3 fl. oz.	3 gal.	Treat problem areas in mid-April and again in mid-May.
Milkyweed	3 fl. oz.	3 gal.	
Rhizoglyphid scales	3 fl. oz.	3 gal.	Apply when crawlers first emerge.
White grub (such as Japanese beetle larvae, European chalcid, Southern chalcid)	3 fl. oz.	3 gal.	Apply any time between late July and early October.

**Humane Pests Outside the Home**  
Ants, Bearder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crane, Earwig, Flea, Milkyweed, Sawfly (Pillbug), Spider, and Springtails (Collembola).  
Mix 3 fl. oz. in 3 gal. of water.

Thoroughly spray window and door screens and sills, foundations, porch and patio walls, intercomers, vents, garbage cans, tree trunks, and the cracks and other places where insects can hide. Repeat application as necessary.  
To prevent entry of insects into the house, spray a two-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 store in unclean, leak or spill by storage or disposal. Open burning is prohibited.  
Precaution: Pesticide wastes are toxic. Improper disposal of empty pesticide, spray mixture, or residue 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.

Caution: This is not a fertilizer. Then after for recycling, reconditioning, or purchase and disposal of in a sanitary landfill, or by other procedure approved by state and local authorities.

For minor spills, leaks, etc., follow all precautionary practices on the label and clean up immediately. This care is to avoid contamination of environment and facilities during cleanup and disposal of material. In the U.S.A. or a major spill, fire or other emergency, call 1-800-368-5372 day or night.

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