

JUN - 4 1991

Mr. William L. Chase, Jr.  
Chevron Chemical Compar.  
Consumer Products Division  
940 Hensley Street  
Richmond, CA 94804-0036

Subject: Amendments - Revisions in response  
to Diazinon Registration Standard,  
Add preplant application for vegetables,  
Add Hemlock Woolly Adelgid & Hemlock  
Ortho Diazinon Insect Spray  
EPA Reg. No. 239-2364  
Your submissions dated May 31 and June 11, 1990  
and April 12, 1991

Dear Mr. Chase:

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided the following revisions are made prior to release for shipment under the amended labeling (please note that the label that is stamped is that which was submitted May 31, 1990, since the label submitted June 11, 1990 was identical to your May 31, 1990 submission, while your April 12, 1991 amendment application to add the site Hemlock and add the pest Hemlock Woolly Adelgid was submitted as inserts on a label which lacked the revisions required under the Diazinon Registration Standard);

- 1) The Diazinon Registration Standard stipulates that diazinon outdoor use products are classified as Restricted Use due to avian and aquatic toxicity unless they are registered for application by homeowners to the home yard and/or home garden or by commercial applicators only to home yards. You can clarify the intended use site for this product by addition of "For outdoor use on the home lawn and in the home garden" on the front panel. A good location for this addition would be just before your proposed addition "DO NOT USE IN HOME", which might be better stated as "DO NOT USE INSIDE THE HOME"
- 2) An examination of the toxicology data supporting this product and Ortho Fruit & Vegetable Insect Control revealed that the acute toxicology data base is incomplete. The Agency's letter

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dated June 13, 1980 conveying the results of our review of your acute toxicity studies stated that the acute inhalation study was only Core Supplementary. There is no indication that a replacement study was submitted. Based on our recent telephone conversation regarding this data deficiency, you indicated that Chevron has now decided to rely on Ciba-Geigy's data on their replacement formula 25% EC Toxicity Category III product in support of reregistration for your 25% EC diazinon formulations and that you will be modifying your CSF and label to match theirs (with the exception of some additional label pest claims on your label based on your company's own tests). You stated that Chevron has been in contact with Ciba-Geigy and that an authorization letter to use their data will be forthcoming soon. In the meantime, add "Avoid breathing spray mist." as the fifth sentence of the Hazards to Humans and Domestic Animals text. Also, in the Statement of Practical Treatment, add "If inhaled, remove victim to fresh air. Apply artificial respiration if indicated."

3) Revise the Environmental Hazards to read as follows:

This pesticide 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 label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., 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 watering 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. 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 wash waters. This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

4) Under the ingredients statement, revise "Contains petroleum distillates" to "Contains aromatic petroleum distillates".

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- 3 8 10
- 5) In the **LAWNS** directions for control of ants, etc., you may want to give the number of tablespoons (6 Tbs.) that equals 3 fl. oz., as you have done in the directions for control of Japanese Beetle grubs. Also, to reduce the potential for misapplication to pets to control Fleas and Brown Dog Ticks, add "Do not apply this product to pets." to the "Notes:" in this same section.
  - 6) Revise the heading for aiding in the control of Fire Ants to read "**LAWNS AND OTHER OUTDOOR HOME RECREATIONAL AREAS:**".
  - 7) In the "**TO CONTROL**" section, replace "Repeat if needed" with "Spray when pests first appear. Applications should be repeated only as directed to maintain control. For each crop, follow the required number of days between last application and harvest that appears in ( ), as well as the intervals between sprays, and the total number of sprays that can be made per season that appears in the "Notes" for fruit and vegetable crops."
  - 8) Do not add the proposed Copy F, "to cover 1000 sq. ft. of garden", unless you believe that volume will be efficacious (Ciba-Geigy's 25% EC label recommends 2 Tbs. in 3 gal. of water per 1000 sq. ft. [i.e., the same dilution rate but 3 times the volume] for foliar application to vegetables), and unless you also believe that consumers will not be confused by the contradiction with the maximum use rates given in the revised "Notes" for fruits and vegetables, as well as the contradiction with the rates for soil insect control which now appear under the same heading "**VEGETABLES**". While the dilution rate (2 tsp. per gal. water) is correct for foliar application to the claimed sites (fruits, vegetables, roses, flowers, shrubs, and shade trees) that appear in this very compressed part of your label, and the correct dilution rate must appear on the label, it may be better to leave the treatment area unstated except for the maximums that appear in the "Notes". To eliminate the problem of multiple rates for vegetable crops and to separate preplant directions from the listed pre-harvest intervals, it might be beneficial to revise the current heading **VEGETABLES** to **VEGETABLES - Foliar Spray** and add a new heading **VEGETABLES - Preplant** over the new directions for cutworm, wireworm, and mole cricket control. Please note that the preplant crop listings must include the prohibition against use for dried bean or pea varieties.
  - 9) Revise the "Note" in the "**FRUITS**" section of "Copy G" to read: Start spraying after blooming. Do not apply more than 3 gals. of spray per 500 sq. ft. of grape vineyard or strawberry patch,

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5 gals. of spray per 500 sq. ft. of caneberry patch, or 6 gals. of spray per 500 sq. ft. of home orchard. For Apricots, Caneberries, Nectarines, and Peaches repeat at 14 day intervals. For all other crops repeat at 7 day intervals. Do not spray more than 3 times a year for strawberries. For all other crops do not spray more than 5 times per season.

- 10) In the list of crops following the heading "VEGETABLES" (or, **VEGETABLES - Foliar Spray**), revise the crop name "Potatoes" to "Irish Potatoes" or "Potatoes (Irish)", since foliar application to sweet potatoes is not appropriate for diazinon.
- 11) Add the following to the "Note" in the "VEGETABLES" (or, **VEGETABLES - Foliar Spray**) section of the "Copy G" text: For the vegetables listed on this label, do not apply more than 3 gallons of spray per 1000 sq. ft. of home garden.
- 12) Under the heading "VEGETABLES" (or **VEGETABLES - Foliar Spray**), after "Do not use on dried bean or pea varieties.", add the precaution: "To protect bees do not apply to bean or pea foliage if the crop or weeds in the treatment area are in bloom.".
- 13) In the **NUISANCE PESTS** directions, rather than spraying a five foot band of soil next to the house to a height of 2 to 3 feet (a big dirt pile), you presumably intended to indicate: "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.".
- 14) Also in the **NUISANCE PESTS** directions, delete "and ceilings". Overhead spraying, with the potential for spray dripping down into the eyes, even behind safety glasses, should not be recommended for a product that "Causes eye injury.".
- 15) In the **NUISANCE PESTS** precautions, rather than the proposed "Copy J", revise the precautions in that section to read as follows:

**DO NOT USE IN HOME.** Do not spray humans or animals with this product. Do not treat plants (other than tree trunks) at this nuisance pests rate. Do not burn sprayed firewood within 2 weeks following treatment.

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A stamped copy of the label is enclosed for your records. Please submit five copies of the revised amended label prior to release for shipment under the amended label. Labeling released for shipment after the August 31, 1991 deadline imposed by the Diazinon Registration Standard should be the revised amended label.

Sincerely yours,

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

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN - 4 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
239-2364

ORTHO Diazinon Insect  
Spray  
EPA Reg. No. 239-2364

COPY A

Causes substantial but temporary eye damage. Do not get in eyes or on clothing. Wear goggles or face shield when handling. Harmful if swallowed, or absorbed through skin. 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 after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again. May cause contact sensitization following repeated contact with skin of susceptible individuals. If sensitization reactions result, contact a physician. Do not use household pets or humans. Do not allow children or pets onto a treated area until the treated area such as grass or soil has dried. Keep out of reach of domestic animals. Food utensils such as tablespoons or measuring cups must not be used for food purposes after use in measuring pesticides.

COPY B

Note to Physicians: Emergency Information - call 1-800-457-2022. This product contains a light petroleum solvent and may present an aspiration problem. This 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.

COPY C

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 Coast waterfowl, do not apply this product in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended

ORTHO Diazinon Insect Spray  
EPA Reg. No. 239-2364

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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JUN - 4 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.  
239-2364

significantly increase potential hazards to birds and waterfowl. Avoid overlapping sprays. Where irrigation (watering) is recommended apply a minimum of 0.25 inch of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries.

Do not apply to water that will be used for recreational purposes or human and livestock consumption. 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.

**COPY D**

or when trees or weeds are in bloom.

**COPY E**

**LAWNS: To Control:** Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetle, Earwigs, European Crane Fly (larvae), Fleas, Millipedes, Lawn Billbugs, Lawn Moths, Leafhoppers, Sod Webworms, Springtails (Collembola) -- Apply 3 fl. oz. in 15 gals. water to cover 500 sq. ft.

**Notes:** Thoroughly wet down grass a few hours before applying. For Lawn Billbugs, water lawn thoroughly immediately after treatment. For Brown Dog Ticks, spray grass and shrubbery particularly near the house.

**To Control:** Japanese Beetle Grubs, May Beetle Larvae (White Grubs), Mole Crickets -- Apply 6 fl. oz. (12 Tbs.) in 24 gals. water to cover 1000 sq. ft. Water lawn thoroughly after treatment.

**COPY F**

to cover 1000 sq. ft. of garden.

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ORTHO Diazinon Insect Spray  
EPA Reg. No. 239-2364

8 9 10  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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APR 4 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
amended, for the pesticide  
registered under EPA Reg. No.  
239-2364

**COPY G**

**FRUITS:** Apricots (10), Caneberries (Blackberry, Boysenberry, Dewberry, Loganberry, Raspberry) CA, OR, WA ONLY (7), Cherries (10), Grapes (18), Nectarines (10), Peaches (20), Plums (10), Strawberries (5). **Note:** Start spraying after blooming. For Apricots, Caneberries, Nectarines, and Peaches repeat at 14 day intervals. For all other crops repeat at 10-14 day intervals.

**VEGETABLES:** Beans† (7), Broccoli (5), Cabbage (7), Cantaloupes (3), Carrots (10), Cauliflower (5), Cucumbers (7), Lettuce (10), Onions (10), Peas† (1), Peppers (5), Potatoes (35), Radishes (10). Summer Squash (7), Sweet Corn (1), Tomatoes (1). †Fresh only. Do not use on dried bean or pea varieties. Do not apply to corn during the pollen shed period.

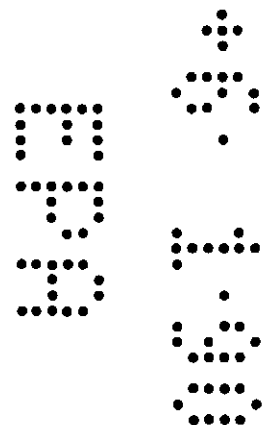
**Note:** Do not spray more than 3 times per season for Beans, Onions, and Peas. For all other crops do not spray more than 5 times per season. Apply at 7-10 day intervals as needed. Numbers in ( ) indicate days required between last application and harvest.

**To Control Cutworms and Wireworms:** Before planting, apply 2 fl. oz. (4 Tbs.) in a minimum of 1 gal. of water to 350 sq. ft. Immediately mix into soil to the depth of 2-3" for Surface Cutworms, 3-6" for Subterranean Cutworms, and 4-8" for Wireworms. For use on Cabbage, Carrots, Lettuce, Peas, Snap Beans, Sweet Corn, Tomatoes.

**To Control Mole Crickets:** 1-2 days before planting, apply 4 tsp. in a minimum of 1 gal. of water to 350 sq. ft. Immediately mix into the soil to a depth of 1 -2 ". For use on Red Beets, Lima Beans, Pole Beans, Snap Beans, Carrots, Peas, Sweet Corn.

**COPY H**

3 fl. oz. in 12 gals. to cover 1000



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9 of 10  
4  
ORTHO Diazinon Insect Spray  
EPA Reg. No. 239-2364

COPY I

6 fl. oz. in 3 gals.

COPY J

other than tree trunks, animals or humans

COPY K

DO NOT USE IN HOME

ACCEPTED  
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JUN - 4 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the Pesticide  
registered under EPA Reg. No.  
239-2364

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

## CONTROLS GARDEN INSECTS

Aphids, Cucumber Beetles,  
Cutworms, Coddling Moth  
Whiskies

### ACAs Block Welfare Reform



**Contains ORTHEX™ Working Agent for More Effective Coverage**

Active Ingredients  
Chloran 10.0, diazinon 0.2, neopropyl  
6-methyl-4-pyrimidinyl  
phosphorothioate 1  
\*Inert Ingredients  
\*Contains petroleum distillates

By 1994

**Keen out of reach of children**

## WARNING

See back panel for additional  
precautionary statements.

ACCEPTED  
with COMMENTS  
in EPA Letter United

JUN - 4 1991

STUT. 239-2364

**NET CONTENTS 191**

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**ENVIRONMENTAL HAZARDS** Insect products are toxic to fish and wildlife. Birds feeding on treated crops may be toxic. Do not apply directly to water. Do not contaminate streams or wetlands. Do not contaminate water when disposing of equipment washwaters. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on treated areas. Do not apply when bees are actively visiting the crop. Application should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PRECAUTIONS FOR CHEMICAL HAZARDS** Do not use or store near heat or open flame.

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

May be applied even on ORTHO SPRAYETTE™, ORTHO DIAL N SPRAY™, Hose End Sprayer or tank type sprayer.  
Contains ORTHOX™, a special additive for better insect control. ORTHOX™ makes your spray spread more evenly and stick better to cover insects on smooth, rough or waxy plant surfaces.

[illegible]

Male: Thoroughly wet down grass a few hours before applying 700 Lb/acre. 500000. water lawn thoroughly immediately after treatment to control Japanese Beetle Grubs. May Beetle Larvae (White Grubs) Male Crickets - Apply 5 ft. or 100-150 Lb. 15 gal. water to cover lawn. Thoroughly wet down grass after treatment.

**Notes:** Treat when damage to lawn is first noticed and grubs (or European Crane Fly larvae!) are found in the soil or consult your local Agricultural Extension Service Specialist for proper time to treat in your area. For Mole Crickets, apply in May or June when pests are small.

**LARVAE AND OTHER RECREATIONAL AREAS** To and in Control: Fire Ants — Apply 1 fl oz (2 Tsp) in a minimum of 1 gal. of water as a drench to mounds. **Notes:** Apply over and 65 cent around each mound. Apply gently to avoid disturbing ants. Reapply as necessary for best results apply when temperatures are 85-90°F or in early morning or late evening hours. Treat new mounds as they appear.

**FRUITS, VEGETABLES, HERBS, FLOWERS, SHRUBS & SHADE TREES**

To Control Aphids Bagworms Bean Beetles Cabbageworms Caterpillars Cutworms Fleas Grubs Hairy Bud Moths  
Leafhoppers Leafminers Lacebugs Leafrollers Mealybugs Mites Scale Crawlers Tort Caterpillars Thrips Whiteflies - Apply 2 tsp 1%  
oil per gal water. Thorough coverage is important. Try to hit undersides of leaves and penetrate dense foliage to wet leaves and  
branches to dislodge pests. Repeat if needed.

10) Strawberry: 1000. Start spraying after blooming and repeat at 10-14 day intervals.

VEGETABLES Beans (1), Broccoli (5), Cabbage (7), Cauliflower (3), Carrots (10), Cornflower (5), Cucumbers (7), Lettuce (10), Onions (10), Peas (1), Peppers (5), Potatoes (35), Radishes (10), Summer Corn (7), Summer Squash (7), Tomatoes (1), **Note:** Apply at 7-10 day intervals as needed.

Days to harvest in ( ) indicate days required between test application and harvest

**ROSES & FLOWERS** Aralia Camellia Chrysanthemum Clematis Gladiolus Pyracantha Rhododendron

**ENEMIES & SHADE TREES:** Birch, Boxwood, Hawthorn, Holly, Lilac, Locust, Maple, Pine, Spruce, Sycamore, Willow.

**Notes:** Do not use on certain ferns, *Polystichum heterocarpum*, *Adiantum species*, and orchids since injury may occur.

To Control Mediterranean Fruit Fly (Mediterranean) Apply 4-6 oz. of the suspension in 100 gal. water to cover 500 sq. ft. of soil beneath host plants listed above. Drench all soil within 100 ft. of plants. Repeat applications at 14 to 20 day intervals as needed.

Combination Spray with Fungicide or Insect: OMNIS FUNGINEX® Rose Disease Control may be mixed with this product when listed insects and diseases are found on roses. Follow directions and precautions on both labels.

### INVASIVE PESTS IN OUTDOOR AREAS

**To control Ants** Box Elder Bugs Chiggers Clover Mites Cockroaches Earwigs Fleas Flies Millipedes Scorpions Sowbugs (Pillbugs) **Spiders** (including **Black Widow Spiders**) **Worms** **Worm Ticks** - Apply **DO NOT** spray a 5 ft band of soil around the house next to the foundation to a height of 2 to 3 feet. Thoroughly spray windows and door screens, walls, foundations, porches and patios and ceilings entrance ways, walls, firewood piles, garbage cans, tree trunks and into cracks and other places where insects can hide. **DO NOT USE ON HORSES**. Do not treat horses or animals with this insecticide paste. Do not burn sprayed horses with a "smoke treatment".

### STORAGE AND DISPOSAL

**STORAGE AND DISPOSAL:** Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not store diluted spray. Keep tightly capped.

**DISPOSAL:** PRODUCT - Partially filled bottle may be disposed of by securely wrapping original container in several layers of news paper and discard in trash. CONTAINER - Do not reuse empty bottle. Rinse thoroughly before discarding in trash.

**NOTICE:** Buyer assumes all responsibility for safety and use not in accordance with directions.

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Orthon Consumer Products Division  
P.O. Box 5047 San Ramon CA 94583 0947  
R Form 0130 P2 Product 1000 49 Made in U.S.A.  
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EPA Est. 229 MO 1

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