5 380396

AS 14 1990

Mr. Wayne Stringer Wilbur-Ellis Company P.O. Box 9518 Fresno, CA 93792

Subject: Amendment - Revise per Diazinon Registration Standard and the Agency's May 1, 1990 Data Call-In letter to reflect only those uses supported by Ciba-Geigy Black Lear 25% Diazinon EPA Reg. No. 33955-556 Your submission dated June 11, 1990

Dear Mr. Stringer.

The amendment referred to above, submitted in connection with a registration under the Federal Insectibide, Fungicide, and Rodenticide Act, is acceptable, provided the following revision is made prior to release for shipment under the amended labeling:

- 1) In the ingredients statement, revise "ACTIVE INGREDIENTS" to "ACTIVE INGREDIENT", since there is only one.
- 2) Revise the footnote underneath the ingredients statement to more accurately reflect the type of solvent, presumably a xylene range aromatic solvent.
- 3) In the "Hazards to Humans and Domestic Animals", add "Do not contaminate ornamental fish ponds." after "Do not use on humans or household pets.". Also in this same section, add as the last sentence "Pood utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides.".
- 4) At the end of the "Note to Physician" add "Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken internally.".
- 5) Revise the "Environmental Hazards" text 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. To not exceed maximum

permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irridation (watering) is recommended in the directions, or if waterfowl, i.e. ducks or decse, can be expected in the treated area after treatment (except shot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Step irridation before puddling occurs. Keep out of lakes, streams, bonds, tidal marshes, and estuaries. Do not apply directly to water or wetlands (swamps, bods, marshes, and potholes). Bunoff 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. Po not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This posticide is highly toxic to bees exposed to direct treaccent or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Applications should be tiped to provide the maximum cossible interval between treatment and the mext period of bee activity.

- 6) In the "Storage and Pisrosal" text, add as the last sentence of the "General" section: "USE CONTENTS WITHIN 5 MONTHS AFTER OPENING.".
- 7) Also in the "Storage and Disposal" text, add as the last sentence of the "Disposal" section: "If disposal of a partially full container is necessary, make sure the cap is tightly closed, securely wran the container in several layers of newspaper, and discard in trash.".
- 8) You may delete the chemidation prohibition provided this is a homeowner use product (otherwise it would be classified as a Pestricted Use commercial/agricultural product). PP Notice-87-1 indicated that homeowner use products do not require chemidation labeling.
- 9) Since the label [when promerly revised] will give rates in tablespoons and fluid ounces, add a conversion table (as indicated below) to appear as the first item after the "Storage and Disposal" section of the label:
  - 1 + ablespoon (Tbs.) = 3 teaspoons
  - 1 fl. oz. = 2 tablespoons or 6 teasmoons
  - f(1, oz) = 3/4 cup
  - 2 tablespoons in 3 dals, of water = 2 teaspoons in 1 dal. of water
- 10) Revise the dilution rate for "Nuisance Pests in Outside Areas" to 6 fl. oz. in 3 dals, of water. Since this is one of the highest dilution rates appearing on this label, the Agency would prefer that

it not be the first one appearing to the label (which a user might mistakenly assume was the rate for these same pests on other sites, including lawns). Pelocate the "Nuisance Pests in Outside Areas" section to appear after the overall lawn use directions. The "Fire Ants" control directions should then follow this relocted text, since these are also nuisance pests with specialized spot-control directions.

- 11) In the relocated directions for "Nuisance Pests in Outside Areas", delete "and ceilings" from "porch and patio walls and ceilings". Such use, especially if applied to runoff, could result in pesticide "raining" down on the applicator and into the eves (even behind the recommended safety glasses), an especially inadvisable situation for a pesticide which can cause "substantial but temporary eye damage". Also, revise "Do not treat plants or animals" to "Do not treat animals with this product. Do not treat plants other than tree trunks at this nuisance pest rate.".
- 12) Pased on available field studies, including wildlife studies, Ciba-Geigy is supporting only one application rate for lawns regardless of the type of lawn or type of past. For this product, that rate is 1 1/2 tablespoons in 3 dallons of water reg 125 sq. ft. or 6 fl. oz. in 24 dals. per 1.000 sq. ft. of lawn. This new rate should appear for all lawn pasts listed on your label (including those such as millipedes, billburg, etc. which have separate blocks of directions), except for the lower rate for control of chinch bugs in the North, which should appear as 1 tablespoon in 3 dals. of water to gover 125 sq. ft. of lawn.
- 13) Reduce the rate for use equinst fire anto to 2 tablesrooms in a minimum of 1 gallon of water applied as a mound drench.
- 14) The entire set of directions for feliar and soil application to vegetable must be revised to reflect the residue testing program undertaken by Cita-Geigy in response to the Diazinon Registration Standard [many rates are lower, darden symphylans, together with the high rate necessary to control these pests, no longer appear). The directions for this section, revised into the compressed format you apparently desire (rather than the more lengthy alphabetical crop listing found on the new Ciba-Geigy sample label for this type of product), should appear as follows:

#### **VEGETABLES**

Foliar Application

Dilute Plack Leaf 25% Diazinon as indicated in the directions below and thoroughly spray all plant parts. Observe the stated time intervals between last application and harvest (see Pre-Barvest Interval table, below), as well as intervals between applications and maximum number of opplications per season.

#### PRE-HARVEST INTERVALS - After spraying, do not pick vegetables within:

0 days - Peas, Sweet Corn

l day - Tomatoes

3 days - Cantaloupes, Muskmelons, Winter Squash, Watermelons

5 days - Broccoli, Cauliflower, Peppers

7 days - Beans, Cabbaqo, Cucumbers, Spinach, Summer Squash

10 days - Carrots, Celery, Collards, Endive, Kale, Lettuce, Onions, Parsnips, Radishes, Turnips

35 days - Potatoes (Irish)

#### CROP

#### PESTS - RATES AND DIRECTIONS

# Beans\*, Peas\* (\* succulent varieties only)

Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, and Spider Mites: 2 Tbs. in 3 gals. of water to cover 1,000 so. ft. of garden. Thoroughly spray all plant parts. Repeat application every 5 days, up to 3 applications per season. Do not apply within 7 days of harvest. Do not use on dried pea or bean varieties such as navy beans, pinto beans, dried limas, or dried black-eyed peas.

Broccoli, Cabbade, Cauliflower, Collards, Kale Aphids, Diamondback Moths, Flea Beetles, Imported Cabbaqeworms, Dipterous Leafminers: 2 Tbs. in 3 gals. of water to cover 1,000 sq. ft. of garden. Thoroughly spray all plant parts. Repeat applications every 7 days, up to 5 applications per season. See Pre-Harvest Interval table, above.

#### Radishes, Turnips

Aphids, Flea Beetles, Leafhoppers, Imported Cabbageworms, Dipterous Leafminers: 2 Tbs. in 3 gals. of water to cover 1,000 sq. ft. of garden. Thoroughly spray all plant parts. Repeat applications every 7 days, up to 5 applications per season. Do not apply within 10 days of harvest.

Carrots, Celery, Endive, Lettuce, Parsnips, Spinach Aphids, Fleas Beetles, Leafhoppers, Dipterous Leafminers. Spider Mites: 2 Tbs. in 3 cals. of water to cover 1,000 sc. ft. of garden. Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 applications per season. To not apply within 10 days of harvest.

Cantaloumes, Cucumbers, Muskmelons, Schash (summer, winter), Watermelon Aphids, Thrips, Spider Mites. 2 Ths. in 3 dals. of water to cover 1,000 sd. ft. of darden. Thoroughly spray all plant parts. Peneat application every 7 days, up to 5 applications per season. See Pre-Harvest Interval table.

#### Peppers, Potatoes, Tomatoes

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Aphids, Colorado Potato Beetles, Fall Armyworms (tomatoes), Flea Beetles, Leafhonders, Southern Armyworms (potatoes & tomatoes), Vinedar Flies - Proscobila spp. (tomatoes):

2 Ths. in 3 dals. of water to cover 1,000 sq. ft. of carden. Thoroughly spray all plant parts. Peneat application every 7 days, up to 5 application per season. See Pre-Barvest Interval table, above. Do not use on commercially-grown potatoes which will be hand-harvested.

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#### Onions

Onion Thrips: 2 Ths. in 3 dals. of water to cover 1.000 sd. ft. of darden. Repeat application every 7 days, un to 3 applications per season. To not apply within 10 days of baryest.

#### Sweet Corn

Aphids, Flea Peetles, Grasshoppers, Spider Mites: 2 Ths. in 3 gals, of water to cover 1,000 sq. ft. of warden. Thoroughly spray all plant parts. Repeat application every 7 days, up to 5 amplications per season. Corn may e picked immediately following last application.

#### VEGETABLES - SOIL APPLICATION

### CROP

### preng

#### PATES AND DIFFCTIONS

Cabbage, Carrots, Sweet Corn, Lettuce, Peas\*, Pole Beans\* Radishes, Red Beets, Snap Beans, Tomatoes, Turnips (\* succulent varieties only)

Cutworms (Surface. Subterranean) 6 Ths. in a minimum of 1 1/2 dals. of water to cover 500 sq. ft. of darden. Broadcast to the soil just before planting. Immediately work into the soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Pole Beans\*, Snap Beans, Red Beets Carrous, Peas\* Sweet Corn (\* succulent varieties only) Mole Crickets

6 Tbs. in a minimum of 1 1/2 dals. of water to cover 500 so. ft. of darden. Proadcast to the soil 1-2 days before planting. Immediately work into the soil 1-2 inches.

Cabbade

Poot Maggots

6 Tbs. in a minimum of 1 1/2 gals. of water to cover 500 sq. ft. of garden. Broadcast to the soil just before planting. Immediately work into the soil 3-4 inches.

Cabbage, Carrots
Sweet Corn,
Lettuce, Peas\*
Snap Beans,
Tomatoes
(\* succulent
varieties only)

Wireworms

6 Tbs. in a minimum of 1 1/2 dals. of water to cover 500 sq. ft. of garden. Broadcast to the soil just before planting. Immediately work into the soil 4-8 inches.

15) The entire set of directions for application to fruits and nuts must be revised to reflect the residue testing program undertaken by Ciba-Geigy in response to the Diazinon Registration Standard [including lower rates, new PHIs, geographic limitations, limits on the number and timing of applications, and deletion of apples and pears from emulsifiable concentrate products). The directions for this section, revised into the slightly compressed format you apparently desire, should appear as follows:

FEUITS & NUTS - Start spraying after blooming. Applications should be made according to infectation or when applies, and crawler stages of scale insects are first noticed.

Observe the stated time intervals between last application and harvest (see Pre-Harvest Interval table, below), as well as intervals between applications and maximum number of applications per season.

#### PRE-HARVEST INTERVALS - After spraying, do not pick fruit within:

5 days - Strawberries

7 days - Caneberries (Plackberries, Boysenberries, Dowberries,

Loganberries, and Paspberries)

10 days - Apricots, Cherries, Nectarines, Plums, Prunes

18 days - Grapes

20 days - Peaches

45 days - Almonds, Walnuts

#### ROP PESTS -- PATES AND DIRECTIONS

## Almonds, Walnuts

(CA only)

Aphids, Spider Mites, Scale Crawlers (almonds - Parlatoria, San Jose: walnuts - Walnut, Italian Pear, Frosted):

2 Tbs. 3 dals. of water. Apply as a full cover spray. Do not apply more than 6 dallons of spray per 500 sq. ft. of orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply after husks open or split. Do not apply within 45 days of harvest. This product may be used on almonds and walnuts only in California. Do not use this product on almonds or Walnuts grown in other states.

#### Apricots, Peaches, Nectarines

Aphids, Apricot Mealybugs (apricots), Mites (Clover [brown], Two-spotted Spider), Scale Crawlers (Clive, San Jose):

2 Tbs. in ° cals. of water. Apply as a full cover spray.

To not apply more than 6 gallons of spray per 500 sc. ft.

of orchard. Do not make more than 5 applications per season,
a minimum of 14 days apart. See Pre-Harvest Interval table.

#### Cherries

Black Cherry Aphids, Cherry Fruitflies, Cherry Pruitworms (maggots) Fruittree Leafrollers, Cherry Rust Mites, San Jose Scale Crawlers: 2 Ths. in 3 gals. of water. Apply as a full cover spray. Do not apply more than 6 gallons of spray per 500 sq. ft. of orchard. To not make more than 5 applications per season, a minimum of 14 days apart. See Pre-Harvest Interval table, above.

#### Plums, Prunes

Aphids (Leafcurl Plum, Meal Plum, Thistle), Mites (Clover [brown], Furopean red): ? Tos. in 3 dals. of water. Apply as a full cover spray. Po not apply more than 6 dallons of spray per 500 sc. ft. of orchard. Po not make more than 5 applications per season, a minimum of 7 days apart. Do not apply with 10 days of harvest.

Caneberries
(CA, OR, &
WA only)
Blackberries,
Boysenberries,
Dewherries,
Loganberries,
Raspberries

Aphids. Leafhopopers, Raspberry Fruitworms, Two-spotted Spider Mites. Thrios: 2 Tbs. in 3 dals. of water. Apply as a full cover spray. Do not apply more than 5 dallons of spray per 500 sd. ft. of field. Do not make more than 5 applications per season. minimum of 14 apart. Do not apply with 7 days of harvest. This product may be used on caneberries only in California, Oredon, and Washington. Do not use on caneberries grown in other states.

#### Strawherries

Aphids, Two-snotted Sp. er Mites, Strawberry Leafrollers: 2 Tbs. in 3 dals. of water. Apply as a full cover spray. Do not apply more than 3 dallons of spray per 500 sq. ft. of field. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply within 5 days of harvest.

#### Grapes

Aphids, Grape Berry Moths, Grape Leaffolders, Leafhoopers: 2 Tbs. in 3 dals. of water. Apoly as a full cover spray. Do not apply more than 3 dallons of spray per 500 so. ft. of vineyard. Do not make more than 5 applications per season, a minimum of 7 days apart. Do not apply within 18 days of barvest.

- 16) In the list of trees and shrubs, revise "Plum" to "Ornamental Plum".
- 17) Lower the dilution rate for all three sets of the directions for tree and shrub pest control down to 2 tablespoons in 3 gallons of water.

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. NOTE: When preparing your label, do not print the cuotation marks that appear around revised text items specified in this letter. Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products hearing appropriately amended labels.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Pegistration Division (M7505C)

ACCEPTED
with COMMENTS
in EPA Letter Dated:

3.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS. AUG 1 4 1990

BLACK LEAF (R) Since 1879 Under the Federal Insecticide, Fungicia, and Redenticide Act as amended, for the pesticide registered under EPA Reg. No.

5887-132

25% Diazinon

For use on lawns and vegetables.

Also kills certain outdoor insects which destroy flowers, fruits, roses, shrubs, trees, or annoy pets and people.

#### ACTIVE INGREDIENTS:

Contains aromatic petroleum derivative solvent.

KEEP OUT OF REAC OF CHILDREN

#### WARNING

See additional precautionary and practical treatment statements on right panel.

EPA Reg. No. 5887-132 EPA Est. No. 70-KY-1

NET 16 FL OZ (1 PT) 473 mL

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed or absorbed through skin. WARNING: breathe spray mist. Avoid contact with eyes, skin, or clothing. thoroughly after handling, and before eating or smoking. May cause contact sensitization following repeated contact with skin in susceptible individuals. Avoid repeated contact with skin. sensitization reactions result consult a physician. Causes substantial but temporary eye damage. Do not get into eyes or on clothing. goggles or safety glasses. 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. 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 children. Keep out of reach of domestic animals. Do not use in home. Do not use on humans or household pets. Avoid contamination of feed and foodstuffs.

#### STATEMENTS OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Gastric lavage is indicated if material was taken internally. DO NOT

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INDUCE VOMITING. Vomiting may cause aspiration pneumonia. IF IN EYES: Flush eyes with plenty of water. Get medical attention if irriation persists. IF ON SKIN: Remove contaminated clothing and wash affected areas with soap and water. IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated. NOTE TO PHYSICIAN: Diazinon is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulfate only by intravenous injection is antidotal. 2-PAM is also antidotal, but should be administered in conjunction with atropine.

#### ENVIRONMENTAL HAZARDS

This pesticide 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 significantly increase potential hazards to birds and waterfowl. Avoid overlapping of 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 purpose and 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.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### PHYSICAL\CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

#### DIRECTIONS FOR USE

It is a violat on 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.

#### STORAGE AND DISPOSAL

General: Do not contaminate water, food, feed, or other pesticides by use, storage, or disposal. If damaged, leaking, or spilled, soak up and wrap waste, then dispose of as below.

Storage: Keep in upright, tightly closed original container in a cool, dry, locked area away from flames, sparks, sunlight, other chemicals, and sources of ignition, heat, degradation, or contamination.

Disposal: Do not reuse empty container. Rinse original container thoroughly, then securely wrap in several layers of newspaper and

discard intrash.

Note: Do not apply this product through any type of irrigation

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equipment.

### NUISANCE PESTS IN OUTSIDE AREAS

Ants\*+, Boxelder Bugs, Brown Dog Ticks\*+, Chiggers +, Clover Mites\*+, Cockroaches, Crickets\*+, Earwigs\*+, Fleas\*+, Flies\* +, Millipedes\*+, Sowbugs (Pillbugs)\*+, Spiders, Springtails (Collembola)\*+ 8 fl. oz. in 3 gals. of water.

Thoroughly spray window and door screens, sills, foundations, porch and patio walls and ceilings, entrance-ways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.

Do not treat plants or animals.

\*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.

+See lawn recommendations for other control measures for these pests.

Fire Ants: See lawn recommendations for rates and directions.

#### DIRECTIONS FOR APPLYING BLACK LEAF 25% DIAZINON

#### PROBLEM AREAS

#### PESTS--RATES AND DIRECTIONS

### LAWNS

Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion, St. Augustine Ants, Armyworms, Bermudagrass Thrips, Brown Dog Ticks\*, Chiggers, Crickets, Cutworms, Earwigs, Fleas, Frit Flies, Lawn Billbugs\*\*, Chinch Bugs+, Lawn Moths (Sod Webworms), Leafhoppers, Mites (Bermuda, Clover), Sowbugs (Pillbugs), Springtails (Collembola) 1 fl. oz. in 3 gals. of water covers 125 sq. ft. 8 fl. oz. in 24 gals. of water covers 1,000 sq. ft.

Thoroughly wet down grass a few hours before applying. \*Brown Dog Ticks: Do not apply to animals. In particular, spray under shrubbery and the grass next to house.

\*\*Lawn Billbugs: Water the lawn thoroughly immediately after treatment.

+In the North, if Chinch Bugs are the only lawn insect problem, a lower rate of application can be used: 1/2 fl. oz. in 3 gals. of water covers 125 sq. ft.

#### Millipedes

2 fl. oz. in 3 gals. of water covers 125 sq. ft.

Thoroughly wet grass a few hours before applying.

Rhodesgrass Scales

1 fl. oz. in 3 gals. of water covers 100 sq. ft.

Apply when Scale Crawlers first emerge.

Ants, Digger Wasps\*
1 fl. oz. in 3 gals. of water covers 125 sq.
ft.
Spot spray ant hills and wasp ground nest

openings. \*Make the application at dusk when wasps are not active.

Billbugs\*, White Grubs\*\* of Japanese Beetle, European Chafer, Southern Chafer 1 fl. oz. in 3 gals. of water covers 125 sq. ft.

Water grass thoroughly after application.

\*Billbug control: Apply when activity is first observed or when chewed or brown grass is present, indicating damage from the insect.

\*\*Grub control: Make application any time between late July and early October.

NOTE: Depending on lawn application, 4 oz. of 25% Diazinon in 12 gallons of water will cover upto 500 sq.ft.

#### Fire Ants

To aid in the control of fire ants in lawns and other recreational areas, apply 1 fl. oz. (2 tbsp.) in a minimum of 1 gal. of water as a drench. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Reapply as necessary. Larger quantities of solution can be prepared for multiple mound treatments. Use equipment capable of delivering the diluted product as a gentle rain at the rate of 1 gal. per mound. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness.

NOTE: For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.

# VEGETABLES<sup>1</sup> Foliar Application

Thoroughly spray all plant parts. Generally, applications at 7 to 10-day intervals may be required. Do not feed treated vines to livestock.

# Beans, Peas (succulent only)

Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Mites. 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.

Note: Do not apply if the crop or weeds in the treatment area are in bloom.

Broccoli, Cabbage, Cauliflower, Collards Kale, Radishes, Turnips	i, Imported 1 fl. oz	Diamondback Moths, Flea Beetles, Cabbageworms, Dipterous Leafminers. . in 3 gals. of water covers ately 1,000 sq. ft. of garden.		
Carrots, Celery, Endive, Lettuce, Parsnip, Spinach	Leafmine 1 fl. oz	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Mites. 1 fl. oz. in 3 gals. of water covers approximately 1,000 sq. ft. of garden.		
Cantaloupes, Cucumber Muskmelon, Squash (summer, winter), Watermelon	1 fl. oz	Thrips, Mites. ; . in 3 gals. of water covers ately 1,000 sq. ft. of garden.		
Peppers, Potatoes, Tomatoes	(tomato) Armyworm (Drosoph 1 fl. oz	Colorado Potato Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern (potato and tomato). Vinegar Flies ila spp. (tomato) in 3 gals. of water covers ately 1,000 sq. ft. of garden.		
Onions		rips. . in 3 gals. of water covers ately 1,000 sq. ft. of garden.		
Sweet Corn	1 fl. oz. approxima	lea Beetles, Grasshoppers, Mites. in 3 gals. of water covers ately 1,000 sq. ft. of garden. o not apply to corn during the pollen iod.		
Cabbage, Cutwo Carrots, Corn, (Surf Lettuce, Peas*, Subt	NSECT utworms Surface, Subter- ranean)	DIRECTIONS 6 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.  Apply broadcast just before planting. Immediately work into soil 2-3 inches for Surface Cutworms, 3-6 inches for Subterranean Cutworms.		
S)	arden ymphylans Garden entipedes)	15 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.  Apply broadcast just before planting. Immediately work into soil 4-8 inches.		

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Carrots, Corn, Peas*, Pole Beans*, Red Beets, Snap Beans* *(succulent only)	Mole Crickets	1 1/2 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.
		Apply broadcast just before planting. Apply 1-2 days before sowing or transplanting. Immediately work into soil 1-2 inches.
Cabbage	Root Maggots	4 1/2 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.
		Apply broadcast just before planting. Immediately work into soil 3-4 inches before seeding, either in seed bed or in field or before transplanting.
Cabbage, Carrots, Corn, Lettuce, Peas*, Snap Beans*, Tomatoes *(succulent only)	Wireworms	6 fl. oz. per 1,000 sq. ft. in sufficient water to achieve thorough coverage.
		Apply broadcast just before planting. Immediately work into soil 4-8 inches.
3 daysCanta 5 daysBrocc 7 daysBeans 10 daysCarro	Tomatoes, Sweetloupes, Muskme oli, Cauliflowe , Cabbage, Cucu ts, Celery, Co ips, Radishes,	et Corn lons, Winter Squash, Watermelons
FRUITS & NUTS	Start spraying after blooming. Applications should be made according to infestation or when aphids, mites, and crawler stages of scale insects are first noted. If infestations warrant, repeat applications at 7 to 10-day intervals.	
Almonds, Walnuts	1/3 fl. oz. :	e Crawlers, Spider Mites. in 3 gals. of water. Apply as a full Do not apply after husks open or
Apples, Pears	Fruittree Lea Leafminers (p Mites (Europe Twospotted Sp	ing Moths, Eyespotted Bud Moths, afrollers, Leafhoppers, Tentiform Dears). Maggots (apples), Mealybugs, ean Red, Clover (brown). Pacific, Dider), Psylla (pears). Scale Crawlers ion, San Jose, Forbes, Soft)

	1 fl. oz. in 3 gals. of water. Apply as a full cover spray. On apples, slight russeting may occur on some varieties such as Golden Delicious.		
Apricots, Peaches, Nectarines	Aphids, Apricot Mealybugs (apricot), Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive, San Jose).  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.		
Cherries	Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruittree Leafrollers, Mites (Cherry Rust), Scale Crawlers (San Jose).  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.		
Plums, Prunes	Aphids (Leafcurl Plum, Mealy Plum, Thistle), Mites (Clover [brown], European Red).  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.		
Caneberries (blackberries, boysenberries, dewberries, loganberries, raspberries)	Aphids, Leafhoppers, Raspberry Sawflies, Raspberry Fruitworms, Twospotted Mites, Thrips.  1 fl. or. in 3 gals. of water. Apply as a full co/er spray.		
Strawberries	Aphids, Twospotted Mites, Strawberry Leafrollers.  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.		
Grapes	Aphids, Grape Berry Moths, Grape Leaffolders, Leafhoppers, Scale Crawlers.  1 fl. oz. in 3 gals. of water. Apply as a full cover spray.		
5 daysStraw 7 daysCaneb	erries ots, Cherries, Grapes, Nectarines, Plums, Prunes s, Pears		
TREES & SHRUBS	Wet leaves and branches to the dripping point.		

Wet leaves and branches to the dripping point. Try to penetrate dense foliage.

Arborvitae, Azalea, Aphids, Bagworms, European Pine Shoot Moths, Birch, Baxwood, Holly Bud Moths, Dipterous Leafminers (Arborvitae, Camellia, Douglas Azalea, Birch, Boxwood, Holly, Oak), Leafhoppers, Fir, Elm, Hawthorn, Mealybugs, Mites (Clover, Cyclamen, European Red,

Black Leaf 25% Diazinon Page 8

Holly, Juniper, Lilac, Locust, Rhododendron,

Spruce, Willow

Privet, Twospotted Spider), Obscure Root Weevils, Omnivorous Leaftiers, Scale Crawlers Maple, Mimosa, Dak, (Cottonycushion, Euonymus, Lecanium, Pine Pine, Plum, Poplar, Needle, Fit Scale, San Jose, Soft)

> 1 fl. oz. in 3 gals. of water. Apply as a thorough foliar spray.

> Webworms (Juniper, Mimosa\*), Whiteflies 1 fl. oz. in 3 gals. of water. Apply as a thorough foliar spray. \*Mimosa Webworms: Apply as a thorough foliar spray when adults first appear. Make two additional applications at 4-5 week intervals.

> Apple-and-Thorn Skeletonizers, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall) 3 fl. oz. in 3 gals. of water. Apply as a thorough foliar spray.

#### ROSES & FLOWERS

Wet the plants to the dripping point. Try to hit underside of leaves and penetrate dense foliage.

Chrysanthemums. Carnations, Gladioli, Lilac, Rhododendron, Roses

Azaleas, Camellias, Aphids, Euonymus Scale Crawlers, Flea Beetles, Dipterous Leafminers, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Twospotted Spider), Thrips, Whiteflies.

1 fl. oz in 3 gals. of water. Apply as a thorough foliar spray.

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