

PM 15

902-5115

ZRP

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Ms. Mary Hewitt
The Chas. H. Lilly Co.
7737 N. E. Killingsworth
Portland, OR 97218

MAR 12 1985

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17 / 3

Subject: Amendment - Update Label
Miller's Diazinon 4 AG
EPA Registration No. 802-515
Your submission dated February 5, 1985

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Label statements and revisions required by PR Notice 83-2, Pannocher Safety, should be made at this time. Your letter of October 11, 1984 had indicated that "for the other reentry statements, we will use the exact wording as given in PR Notice 83-2" but these were not included on your latest label submission. Specifically, add the signal word AVISO in the same type size as WARNING. Immediately under these signal words add "PRECAUTION AL OBRIGADO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado en castellano."
 - b. In the Directions For Use add the following statements to the beginning of the Re-Entry Statements:
 - Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas until sprays have dried unless appropriate protective clothing is worn. Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including arms legs), shoes and socks.
 - c. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.
 - c. Relocate the NOTE about re-entry periods in California (currently appearing in the booklet USE PRECAUTIONS) to appear in the RE-ENTRY STATEMENTS directly after the text indicated in Item "b" above.

- d. It is preferred that the RE-ENTRY STATEMENTS appear on both the label and in the booklet. If that is not possible, the statements should appear on the main label and the user should be referred to them from the beginning of the use directions in the booklet.
- e. Relocate KEEP OUT OF REACH OF CHILDREN above the signal word WARNING.
- f. In the Hazards to Humans & Domestic Animals section of both the label and booklet add WARNING as the first word. Also, revise "Do not permit children or pets to go on to sprayed grass until spray has completely dried." to "Do not allow children or pets to go on to sprayed areas until spray has completely dried."
- g. Because of the aspirability and mucosal corrosivity effects of the solvent, the Agency recommends the following revision to the "If Swallowed" advice, however, if your toxicological data indicate otherwise please submit alternate proposed text for evaluation:

"Call a physician or Poison Control Center immediately. Do not induce vomiting unless instructed to do so by a physician. Drink one or two glasses of water and transport victim to physician or emergency hospital. Do not induce vomiting or give anything by mouth if the victim is convulsing or unconscious."

- h. Directly under the Statement of Practical Treatment add a Note to Physician as follows:

Note to Physician - Product contains 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. Solvent present: aspiration hazard. Gastric lavage may be indicated if material was taken internally.

- e. Relocate the heading "DIRECTIONS FOR USE" and its associated misuse statement from the bottom of the Storage and Disposal block up to above the heading "RE-ENTRY STATEMENTS".
- f. Revise the "ENVIRONMENTAL HAZARDS" text (on both the label and booklet) to read as follows:

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes and estuaries (except for effluence from treated watercess beds). Do not apply directly 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. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency before applying this product. Apply this product only as specified on this label.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment under the amended labeling.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

1615

Insect on...

Miller's



ACCOUNT
21
EPA Reg. No.
802-515

FOR COMMERCIAL USE ONLY

DIAZINON® 4 AG

(4 lbs. Diazinon per gallon)

Insecticide for control of certain insects on fruits, nuts, vegetables, field crops, and ornamentals. For specific insects controlled, refer to label directions.

SE-1 AVALON - 6071

ACTIVE INGREDIENTS:

*Diazinon, *O, O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	48.00%
Xylene	35.37%
INERT INGREDIENTS:	16.63%

*Diazinon® is the Reg. T.M. of CIBA-GEIGY

E.P.A. Reg. No. 802-515

WARNING — Keep out of reach of children

STATEMENT OF PRACTICAL TREATMENT

If swallowed — Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled — Remove victim to fresh air. Apply respiration if indicated.

If on skin — Remove contaminated clothing and wash affected areas with soap and water.

If in eyes — Flush eyes for at least 15 minutes with water. Call a physician immediately.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before smoking or eating. Avoid contamination of food and feed. Do not use on humans or household pets. Do not permit children or pets to go on to the sprayed grass until spray has completely dried. Avoid storage near food and feed products.

NET CONTENTS: 5 GALLONS

THE CHAS. H. LILLY CO.
PORTLAND, OREGON 97218
EPA Est. 002-OR-1

Miller's

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PRECAUTIONARY STATEMENTS CONT'D

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting area. Applications should be timed providing the maximum possible interval between application and the next period of bee activity. Protective information may be obtained from your Cooperative Agricultural Extension Service.

PHYSICAL OR CHEMICAL HAZARDS

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

RE-ENTRY STATEMENTS

Written or oral warnings must be given to workers who are expected to be in a treated area or an area about to be treated.

Oral warnings must be given if written warnings cannot be understood by workers and must be in a language they understand. Give specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, the period of time field must be vacated, and appropriate actions to take in case of accidental exposure.

Written warnings must include the following information: **WARNING - Area treated with DIAZINON 4 AG on (date and time of application) Do not enter without full protective clothing until sprays have dried.**

In case of exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide disposal: 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 disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

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

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

GENERAL INFORMATION

Miller's Diazinon 4 AG is an emulsifiable solution which, when diluted with water according to the directions below, is intended for the control of insect pests of agricultural crops. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use given below, best control is obtained when application is made at first sign of insects. Applications should be repeated as necessary to maintain control.

USE PRECAUTIONS

Observe number of days before harvest for last application noted in parentheses by each food crop. Do not apply when honey bees are foraging in the garden.

VEGETABLE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Miller's Diazinon 4 AG should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for several applications and a minimum of 10 gals. of water per acre for ground applications.

BEANS (Pole Beans, Snap Beans, Lima Beans) - Black Bean Aphids, Mexican Bean Beetles, Leaf Miners: Apply 1 - 1½ pts. per acre. Cucumber Beetles: Apply ½ pt. in 100 gals. of water per acre. Do not apply within 7 days of bean harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

LIMA BEANS - Dytiscus Leaf Miners, Leafhoppers, Aphids: Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

BROCCOLI (B), CAULIFLOWER (B), CABBAGE (7) - Aphids, Diamondback Moths, Imported Cabbageworms: Apply ½ - 1 pt. per acre. Applications at 7 - 10 day intervals will usually be required.

BRUSSELS SPROUTS (7) - Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1 pt. per acre. Generally, applications at 7 - 10 day intervals will be required.

CARROTS (10) - Aphids: Apply 1 pt. per acre.

CELERY (10) - Aphids, Flea Beetles: Apply 1 pt. in 100 gals. of water per acre. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or food.

COLLARDS (10), KALE (10), TURNIP TOPS (10), SWISS CHARD (2) - Aphids, Imported Cabbageworm, Diamondback Moths, Harlequin Cabbage Bug: Apply ½ - 1 pt. per acre.

CUCUMBERS (7) - Aphids, Serpentine Leaf Miners, Thrips: Apply 1 pt. per acre. **LETTUCE and ENDIVE (10)** - Aphids, Dytiscus Leaf Miners: Apply ½ - 1 pt. per acre. **MELONS and SQUASH (Cantaloups, Casaba, Cranberry, Honeydew Melons, Muskmelons, Pielon Melons, and hybrids of these; Watermelons and their hybrids: Summer and Winter Squash)** - Aphids, Leafhoppers, Aphids: Apply 1 - 1½ pts. per acre. Serpentine Leaf Miners, Thrips: Apply ½ - 1 pt. per acre. Do not apply to melons and winter squash within 3 days, or to summer squash within 7 days of harvest.

ONIONS (10) - Onion Thrips: Apply 1 pt. per acre.

PEAS - Aphids, Leaf Miners: Apply ½ - 1 pt. per acre. Peas may be picked immediately. Pea vines and pea hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

PEPPERS (B) - Aphids, Serpentine Leaf Miners: Apply ½ pt. per acre.

POTATOES (B) - Aphids, Flea Beetles, Colorado Potato Beetles, Dytiscus Leaf Miners: Apply at the rate of ½ - ¾ pt. per acre. Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Apply ½ - 1 pt. per acre.

RADISHES, PARSNIPS, and TURNIPS (10) - Aphids, Flea Beetles, Dytiscus Leaf Miners: Apply ½ - 1 pt. per acre.

SPINACH (10), and BEETS (14) - Aphids, Dytiscus Leaf Miners: Apply ½ - 1 pt. per acre.

SQUASH (Summer and Winter) - See Melons and Squash Section.

SWEET CORN - Corn Earworms: Apply 1 - 1½ qts. per acre when silks first appear. Two or three repeat applications at 2 - 3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

TOMATOES (1) - Aphids, Dytiscus Leaf Miners: Apply ½ pt. per acre. To control Leaf Miners, weekly applications are usually required. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply ½ - 1 pt. per acre. Vinegar Flies (*Drosophila* spp.): Apply ½ - 1½ qts. per acre. Weekly applications are usually required.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Miller's Diazinon 4 AG should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

CUTWORMS (Surface and Subterranean) - Broccoli, Brussels Sprouts, Cabbage, Cantaloupes, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Swiss Chard, Tomatoes, Watermelons, Winter Squash: Broadcast 2 - 4 qts. per acre just prior to planting. Work into the soil immediately 2 - 3 inches for Surface Cutworms, 3 - 6 inches for Subterranean Cutworms.

GARDEN SYMPHYLANS (Centipedes) - Cabbage, Carrots, Corn, Lettuce, Peas, Pole Beans, Radishes, Red Beets, Snap Beans, Tomatoes, Turnips: Broadcast 10 qts. per acre just prior to planting. Work into soil 4 - 8 inches immediately. This preplant treatment will also control other soil insects such as Cutworms (Surface and Subterranean), Mole Crickets, Root Maggots and Wireworms.

MOLE CRICKETS - Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Endive (escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes, Turnips: Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1 - 2 days prior to sowing of seed or transplanting and work into soil 1 - 2 inches immediately.

ONION MAGGOTS - Onions: Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time. **Broadcast Application:** Broadcast 2 - 4 qts. per acre just prior to planting. Work into soil 3 - 4 inches immediately.

ROOT MAGGOTS - Broccoli, Brussels Sprouts, Cabbage, and Cauliflower: Broadcast Application: Broadcast 2 - 3 qts. per acre and immediately work into the soil 3 - 4 inches, before seeding, either in the seedbed or in the field, or before transplanting. **Transplant Water (Drench) Application:** Mix $\frac{1}{4}$ - $\frac{1}{2}$ pt. in 50 gals. of transplant water, when 200 - 300 gals. of water are used per acre. May be applied at the rate of $\frac{1}{2}$ - 1 cupful per plant, either by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

Radishes: Mix 1 qt. in 50 gals. of water. Apply 80 - 100 gals. per acre (1 - 1 $\frac{1}{2}$ gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS - Broccoli, Brussels Sprouts, Cabbage, Cantaloupes, Carrots, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Onions, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, Winter Squash. Broadcast 3 - 4 qts. per acre prior to planting, and work into soil 4 - 8 inches immediately. **Potatoes - Wireworms:** Broadcast 3 - 6 qts. per acre prior to planting. Immediately disk or furrow into soil 4 - 8 inches.

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Miller's Diazinon 4 AG should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground application.

ALFALFA and CLOVER - Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply $\frac{1}{2}$ - 1 pt. per acre. **Grasshoppers:** Apply 1 pt. per acre. Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay provided alfalfa or clover is not cut for hay for 7 days following treatment. Do not spray livestock directly with either air or ground equipment. Do not treat during bloom to avoid injury to pollinating insects. **CLOVER - Striped Ground Crickets:** Broadcast 1 - 2 pts. per acre following seeding in the fall but prior to clover emergence.

FIELD AND FORAGE SOIL INSECTS

Unless otherwise stated, soil applications of Miller's Diazinon 4 AG should always be applied to field and forage crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

ALFALFA and CLOVER - Cutworms (Surface and Subterranean): Broadcast 2 - 4 qts. per acre just prior to planting. Work into the soil immediately 2 - 3 inches for Surface Cutworms, 3 - 6 inches for Subterranean Cutworms.

9-11

**READ CAREFULLY
AND FOLLOW ALL
LABEL DIRECTIONS WHEN
USING THIS PRODUCT**

Miller's Diazinon 4 AG is registered for use on the following crops:

Alfalfa	Grapes	Pole Beans
Almonds	Hops	Potatoes
Apricots	Kale	Prunes
Beets	Kumquats	Radishes
Bermudagrass	Lawns	Rangeland
Blueberries	Lemons	Snap Beans
Broccoli	Lespedeza	Sorghum
Brussels Sprouts	Lettuce	Soybeans
Cabbage	Lima Beans	Spinach
Caneberries	Limes	Squash
Carrots	Melons	Strawberries
Cauliflower	Nectarines	Sugar Beets
Celery	Olives	Sugarcane
Cherries	Onions	Sweet Corn
Clover	Oranges	Swiss Chard
Collards	Ornamentals	Tangelos
Cotton	Parsnips	Tangerines
Cowpeas	Pasture Grass	Tobacco
Cranberries	Peaches	Tomatoes
Cucumbers	Peanuts	Turnips
Endive	Peas	Turnip Tops
Field Corn	Pecans	Walnuts
Figs	Peppers	Watercress
Fiberts	Pineapples	(Hawaii only)
Grapefruit	Plums	

**PLEASE SEE BOOKLET ATTACHED TO
THIS CONTAINER FOR COMPLETE
LIST OF USE DIRECTIONS FOR INSECT
CONTROL ON THE ABOVE CROPS.**

NOTICE: Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risk of use, storage or handling of this material not in strict accordance with directions given hereon.

LC-100

This product is highly toxic to bees. Do not apply to areas where bees are active. Do not apply to areas where bees are active. Do not apply to areas where bees are active.

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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.

RE ENTRY STATEMENTS

Written or oral warnings must be given to workers who are expected to be in a treated area or an area about to be treated.

Oral warnings must be given if written warnings cannot be understood by workers and must be in a language they understand. Give specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, the period of time field must be vacated, and appropriate actions to take in case of accidental exposure.

Written warnings must include the following information: **WARNING** Area treated with DIAZINON 4 AG on (date and time of application). Do not enter without full protective clothing until sprays have dried.

In case of exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or dilute 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 disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Field and Forage Foliar Insects	Range, Pasture and Grassland Insects
Adiantum	24
Alfalfa	24
Clover	24
Corn	24
Cowpeas	26
Cuscutora	28
Field and Forage Soil Insects	Ornamental Insect Control 33
Adiantum	24
Clover	24
Corn	24
Cowpeas	26
Cuscutora	28
	Lawn Insect Control 35
	Forest Insects 37
	Fire

USE PRECAUTIONS

Read the entire label carefully before using this product. Do not use this product if the label directions do not cover the pest, crop, or conditions to be treated. Do not use this product in a manner inconsistent with its labeling. Do not apply this product to plants, animals, or humans.

Note: The U.S. Department of Agriculture has not approved the use of Diazinon on citrus, grapes, peaches and watermelons. Five days should lapse between the time that Diazinon is applied and the time a worker may enter the field to harvest any variety requiring substantial contact with the foliage. When a mixture of two or more applications of this pest is applied in combination the intervals should be added by adding to the longest application interval an additional half of that interval.

NOTE: Unless otherwise stated, the rates listed below should be applied as a dilute full cover spray.

- Almonds**
 Mites, Twig Borers: Apply 1 - 1½ pts. per 100 gals. of water.
 Parlatoria Scales, San Jose Scales: Mix 1 - 1½ pts. Diazinon plus 2 - 3 gals. dormant oil per 100 gals. of water and apply as a dormant spray. Almond hulls may be used for feed for livestock.
- Apricots (10)**
 Aphids, Brown Mites, (Clover Mites), Two Spotted Spider Mites, Olive Scale, Crawlers, San Jose Scale, Crawlers: Mix 1 pt. per 100 gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.
 Apricot Mealybugs: Mix 1 pt. per 100 gals. of water. Apply as a cover spray from petal fall to June.
- Blueberries (7)**
 Cranberry Fruitworms, Cherry Fruitworms, Raspberry Maggots, Aphids, Thrips, Two Spotted Mites: Mix 1 pt. per 100 gals. of water. Apply up to 200 gals. of spray per acre.

- Caneberries (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)**
- Leafhoppers, Thrips, Aphids, Two Spotted Mites, Raspberry Sawflies: Apply 2 pts. per acre in a minimum of 100 gals. of water.
- Raspberry Fruitworms: Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.
- Dryberry Mites: Apply 1 - 2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring when canes are still on the ground and buds are closed. Make a second application when the buds are well developed but still closed. Do not apply within 7 days of harvest.
- Raspberry Cane Borers (Raspberry Root Borers): Apply 2 pts. per acre in a minimum of 100 gals. of water as a dormant spray to the row area and to the lower canes. Apply either in the spring before harvest begins or in the fall after harvest.

Cherries (10)

Eye Spotted Bud Moths, Fruit Tree Leaf Rollers. Mix 1 pt per 100 gals of water. Apply in cover sprays as necessary beginning with petal fall.

Leafhoppers. Apply 1 pt per 100 gals of water in 3 - 5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

Cherry Fruit Flies. Mix 1/2 - 1 pt per 100 gals of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge and repeat at 10 day intervals.

Black Cherry Aphids. Mix 1 pt per 100 gals of water. Apply as a cover spray when aphids appear and repeat after 10 days.

San Jose Scale Crawlers. Mix 1 pt per 100 gals of water. Apply during the pre-bloom stage or when crawlers first appear.

Cherry Rust Mites. Mix 1 pt per 100 gals of water. Apply as a supplemental spray after harvest.

Citrus Fruits (Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus Citron, Kumquats and Hybrids of these.)

Citrus Aphids, Fruit Tree Leaf Rollers, Citrus Cuckoo Scale Crawlers, and Soft Scale Crawlers. Apply 1/2 - 1 pt per 100 gals of water (maximum 1000 gals per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.

Fruit Tree Leaf Rollers. Use 1/2 - 1 pt per 100 gals of spray in a minimum 1000 gals per acre after an average of 1/3 percent of eggs in egg masses have hatched if the spray.

Citrus Thrips. Apply 1 pt in 100 gals of water (maximum 1000 gals per acre) when thrips first appear.

Citrus Snow Scales. Apply 1 - 2 pts per 100 gals of water (maximum 1000 gals per acre) as a post bloom spray and again as a summer spray. For heavy snow scale infestations use the higher dosage rate. Thorough coverage of tree trunks, limbs and twigs is essential.

Do not apply during bloom. Do not apply to citrus within 21 days of harvest. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources.

Cranberries (7)

Black Headed Fireworms. Apply 2 qts in 400 gals of water per acre.

Cranberry Fruitworms. Apply 3 qts in 400 gals of water per acre.

Figs (5)

Vinegar Flies (*Drosophila spp.*), Dried Fruit Beetles. Apply 1 pt per 100 gals of water.

Filberts

Filbert Leaf Rollers, Aphids. Apply 1 - 2 qts in 250-400 gals of water per acre, as a thorough cover spray.

Grapes

Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf Folders. Apply 1 - 2 pts per acre in a minimum of 100 gals of water as a thorough cover spray. Do not apply within 18 days of harvest.

Drosophila Spp. Apply 12 - 18 fl oz per acre in a minimum of 100 gals of water as a thorough cover spray, or apply when insects first appear. Make additional applications at weekly intervals as necessary.

Do not apply within 7 days of harvest.

Olives

Olive Scales. Mix 1/2 - 1 pt of Diazinon 4 AG plus 1 1/2 gals of light medium summer horticultural oil per 100 gals of water. Apply as a cover spray in June or July. Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.

Peaches (20) and Nectarines (10)

Aphids, Brown Mites (Cover Mites), Two Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers. Mix 1 pt per 100 gals of water. Apply when aphids, mites and scale crawlers first appear.

Olive Scale Crawlers. Mix 1/2 pt of Diazinon 4 AG plus 1 1/2 gals light medium horticultural oil per 100 gals of water. Apply when scale crawlers are present.

Oriental Fruit Moths. Mix 1 pt per 100 gals of water and apply at 100% petal fall. Make 2 additional applications at 10 - 15 day intervals. Time the last application to peak adult oriental fruit moth flight, if possible.

Peach Twig Borers. Mix 1 pt per 100 gals of water and apply to peaches in May and June.

Leafhoppers (Peaches only). Apply 1 pt per 100 gals of water in 3 - 5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

White Peach Scale (Peaches only). As a post harvest spray, apply 1 1/2 - 2 pts per 100 gals of water, timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, 2 applications may be necessary.

AVAILABLE

Pecans

Aphids, Mites. For pecan leaf casebearer. Walnut Caterpillars. Apply 1-3 qt. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks close.

Pineapples

Scale. Apply 4 qts. of Daze 4-4 AG plus 2 qts. of 700 (or medium heavy kaffir) in 200 gals. of water per acre to the vegetation in the plant. Do not harvest pineapples.

Mites. Apply 2 qt. per acre in a minimum of 100 gals. of water. May be applied to hay for mites.

For apple foliage and nut casebearer, be fed to livestock 4 days following application.

Plums and Prunes (10)

Brown Mites (Cover Mites), European Red Mites. Apply 1 pt. per 100 gals. of water. Leaf Curt Plum Aphid, Mealy Plum Aphids, Triste Aphids. Apply 1/2-1 pt. per 100 gals. of water.

Strawberries (5)

Aphids. Use 1 qt. of Spider Mite. Apply 1 pt. per 100 gals. of water per acre.

Cyprinid Mite. Apply 1 qt. per 100 gals. of water per acre during spray to plant crowns. Plants should be sufficiently irrigated to assure thorough coverage of foliage. Make additional applications if necessary after harvest.

Mite Control. Broadcast 1 qt. per acre when mites are present. Apply 1-2 days before grazing and 1 and 10 days after 1-2 months of grazing later.

Strawberry Leaf Rollers. Mix 1/2-1 pt. per 100 gals. of water. Apply 200 gals. of spray per acre when the stems show cover.

Walnuts

Aphids, Mites. Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water.

Codling Moths, Scale Crawlers, Walnut Caterpillars. Apply 3 qts. per acre as a foliage spray in a minimum of 100 gals. of water.

Do not apply after the husks open.

Unless otherwise stated, foliar applications of Daze 4-4 AG should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

Beans (Pole Beans, Snap Beans, Lima Beans)

Black Bean Aphids, Mexican Bean Beetles, Leaf Miners. Apply 1-1 1/2 pts. per acre.

Cucumber Beetles. Apply 1/2 pt. in 100 gallons of water per acre.

Do not apply within 7 days of bean harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

Lima Beans

Dipterous Leaf Miners, Leafhoppers, Mites. Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

Broccoli (5), Cauliflower (5), Cabbage (7)

Aphids, Diamondback Moths, Imported Cabbageworms. Apply 1/2-1 pt. per acre. Applications at 7-10 day intervals will usually be required.

Brussels Sprouts (7)

Aphids, Diamondback Moths, Imported Cabbageworms. Apply 1 pt. per acre. Generally, applications at 7-10 day intervals will be required.

Carrots (10)

Aphids. Apply 1 pt. per acre.

Celery (10)

Aphids, Flea Beetles. Apply 1 pt. in 100 gals. of water per acre. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or forage.

Collards (10), Kale (10), Turnip Tops (10), Swiss Chard (12)

Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs. Apply 1/2-1 pt. per acre.

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Cucumbers (7)

Aphids, Dicotyledonous Leaf Miners, Trips. Apply 1/2 pt. per acre.

Lettuce and Endive (10)

Aphids, Dicotyledonous Leaf Miners. Apply 1/2 pt. per acre.

Melons and Squash

(Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these Watermelons and their hybrids Summer and Winter squash.)

Aphids, Dicotyledonous Leaf Miners. Apply 1/2 pt. per acre.

Spraying for Leaf Miners, Trips. Apply 1/2 pt. per acre. For squash apply to mature and winter squash within 3 days of the summer squash with 7 days of harvest.

Onions (10)

Onion Trips. Apply 1 pt. per acre.

Peas

Aphids, Leaf Miners. Apply 1/2 - 1 pt. per acre. Peas may be picked immediately. Pea vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

Peppers (5)

Aphids, Dicotyledonous Leaf Miners. Apply 1/2 pt. per acre.

Potatoes (35)

Aphids, Flea Beetles, Colorado Potato Beetle, Dicotyledonous Leaf Miners. Apply at the rate of 1/2 - 1 pt. per acre.

For feeding to the garden, leafhoppers, Southern Armyworm. Apply 1/2 - 1 pt. per acre.

Radishes, Parsnips and Turnips (10)

Aphids, Flea Beetles, Dicotyledonous Leaf Miners. Apply 1/2 - 1 pt. per acre.

Spinach (10) and Beets (14)

Aphids, Dicotyledonous Leaf Miners. Apply 1/2 - 1 pt. per acre.

Squash (Summer and Winter)
Cantaloupes and Squash, Summer

Sweet Corn

For feeding to dairy cattle, Apply 1 - 1 1/2 qts. per acre when silks first appear. Two or three repeat applications at 2 - 3 day intervals will usually be necessary. Corn may be picked for silage following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Refer also to Corn under Field and Forage Foliar Insects and Field and Forage Soil Insects.

Tomatoes (1)

Aphids, Dicotyledonous Leaf Miners. Apply 1/2 pt. per acre. To control leaf miners, weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms. Apply 1/4 - 1 pt. per acre.

Vinegar Flies (*Drosophila spp.*): Apply 1/2 - 1 1/2 pts. per acre. Weekly applications are usually required.

Watercress (Hawaii only) (5)

Cycamen Mites. Mix 1 pt. per 100 gals. of water and apply to one acre as a thorough cover spray. Spray should be directed into the crowns and growing tips of plants. If infestation is heavy, make a second application no later than 10 days after the first application. Repeat applications as necessary.

Unless otherwise stated, soil applications of Diazinon 4 AG should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

Cutworms (Surface and Subterranean)

Broccoli	Kale	Snap Beans
Brussels Sprouts	Lettuce	Spinach
Cabbage	Lima Beans	Summer Squash
Cantaloupes	Muskmelons	Sweet Corn
Cauliflower	Parsley	Swiss Chard
Celery	Peas	Tomatoes
Collards	Peppers	Watermelons
Cucumbers	Potatoes	Winter Squash
Endive (Escarole)		

Broadcast 2 - 4 qts. per acre just prior to planting. Work into the soil immediately, 2 - 3 inches for surface cutworms, 3 - 6 inches for subterranean cutworms.

Garden Symphylans (Centipedes)

Cabbage	Peas	Snap Beans
Carrots	Pole Beans	Tomatoes
Corr.	Radishes	Turnips
Lettuce	Red Beets	

Broadcast 10 qts. per acre just prior to planting. Work into soil 4 - 8 inches immediately. This preplant treatment will also control other soil insects such as cutworms, burrowing and subterranean mole crickets, root maggots and wireworms.

Mole Crickets

Broccoli	Endive (Escarole)	Radishes
Brussels Sprouts	Kale	Tomatoes
Cabbage	Lettuce	Turnips
Cauliflower	Mustard	
Collards	Peppers	

Broadcast 1 qt. per acre when insects are present. Make applications to plant beds or field 1 - 2 days prior to sowing of seed or transplanting and work into soil 1 - 2 inches immediately.

Onion Maggots

Furrow Application: Apply 1 qt. per acre in salt water to drench the seed furrow at planting time.

Broadcast Application: Broadcast 2 - 4 qts. per acre just prior to planting. Work into soil 3 - 4 inches immediately.

Root Maggots

Preplant: Brussels Sprouts, Cabbage and Cauliflower. Broadcast 2 - 3 qts. per acre and immediately work into the soil 3 - 4 inches, before seeding, either in the seed bed or in the field, or before transplanting.

Transplant Water (Drench) Application: Mix 1/2 pt. in 50 gals. of transplant water when 200 - 300 gals. of water are used per acre. May be applied at the rate of 1/2 - 1 cupful per plant, either by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

Radishes: Mix 1 qt. in 50 gals. of water. Apply 80 - 100 gals. per acre (1 - 1 1/2 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

Wireworms

Broccoli	Endive (Escarole)	Potatoes
Brussels Sprouts	Kale	Snap Beans
Cabbage	Lettuce	Spinach
Cantaloupes	Lima Beans	Summer Squash
Carrots	Muskmelons	Sweet Corn
Cauliflower	Onion	Sweet Potatoes
Celery	Parley	Swiss Chard
Collards	Peas	Tomatoes
Cucumbers	Peppers	Watermelons
		Winter Squash

Broadcast 3 - 4 qts. per acre prior to planting and work into soil 4 - 8 inches immediately.

Potatoes

Wireworms: Broadcast 3 - 6 qts. per acre prior to planting. Immediately disk or harrow into soil 4 - 8 inches.

Unless otherwise stated, foliar applications of Diazinon 4 AG should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground application.

Alfalfa and Clover

Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites. Apply 1/2 - 1 pt. per acre.

Grasshoppers. Apply 1 pt. per acre.

Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay provided alfalfa or clover is not cut for hay for 7 days following treatment.

Do not spray livestock directly with either air or ground equipment. Do not treat during bloom to avoid injury to the insects.

Clover

Striped Ground Crickets. Broadcast 1 - 2 pts. per acre following seeding in the fall, but prior to winter emergence.

Corn

Use a minimum of 1 gal. of water for aerial application and 5 gals. of water for ground application.

Corn Rootworm Adults. Apply 1 - 1 1/2 pt. per acre.

Corn Leaf Aphids. Apply 1 - 2 pts. per acre for complete coverage of the upper parts of the plant. Repeat application if necessary.

Maize. Apply 1 pt. per acre when infestation first appears. Repeat application if necessary.

Grasshoppers. Apply 1 pt. per acre.

San Beetles. Apply 2 - 2 1/2 pts. per acre. Add 1/2 lb. of soluble mineral oil per acre to the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for proper timing of sprays.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Cotton

Spider Mites, Aphids, Leafhoppers, Lygids, Beet Beetles, Leafworms, Cotton Leaf Perforators. Apply 1 - 2 pts. in 5 - 20 gals. of water per acre. Do not apply if pest infestation warrants.

Do not apply within 14 days of harvest. Do not graze treated cotton plants, or feed on waste leaves or bolls.

Hops (14)

Aphids. Maize. Apply 1 qt. per acre.

Sorghum

Maize. Apply 1 gal. of water for aerial application and 5 gals. of water for ground application.

Grasshoppers. Apply 1 - 1 1/2 pt. per acre when infestation first appears. Repeat application if necessary within 4 days.

Maize. Apply 1 pt. per acre when infestation first appears and repeat applications as necessary.

Greenbug. Apply 1 pt. per acre when infestation first appears and repeat as necessary. (Texas and Oklahoma) Apply 1/2 - 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

Sugar Beets

Beet Leafhoppers, Dipterous Leaf Miners, Aphids. Apply 1/2 - 1 pt. per acre.

Grasshoppers. Apply 1 pt. per acre.

Note: Tops may be fed to beef and dairy animals.

Sugarcane

Aphids. Apply 1/2 - 1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

Tobacco

Aphids, Flea Beetles. Apply 1/2 - 3/4 pt. per acre. Do not apply within 14 days of harvest.

Grasshoppers. Apply 1 pt. per acre. Do not apply within 14 days of harvest.

Unless otherwise stated, soil applications of Diazinon 4 AG should always be applied to feed and forage crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

Alfalfa and Clover

Cutworms (Surface and Subterranean). Broadcast 2 - 4 qts. per acre just prior to planting. Work into the soil immediately 2 - 3 inches for surface cutworms, 3 - 6 inches for subterranean cutworms.

Corn

Corn Rootworm Larvae

Band Application at Planting Time. Apply 1 - 2 pts. per acre. Make application in the seed furrow or apply 2 1/2 lbs. per 1,000 linear feet of corn row in a 4 - 7 foot band directly behind the planter shoe. For band treatment refer to the row spacing chart for applications recommended per acre.

**Suggested Rates According to Row Spacing
for Corn Rootworm Larvae Control**

Row spacing	Linear Feet of Corn row/acre	Rate per acre	
		Planting time application	Postemergence basal treatment
48"	10 890	28 56 oz	14 28 oz
42"	12 455	31 62 oz	15 5 31 oz
40"	13 068	32 64 oz	16 32 oz
		(1 2 qts)	15 1 qt
38"	13 939	35 70 oz	17 5 35 oz
36"	14 250	36 72 oz	18 36 oz
30"	17 474	44 88 oz	22 44 oz
24"	21 780	55 110 oz	27 5 55 oz
20"	26 136	64 128 oz	32 64 oz
18"	31 545	74 148 oz	37 74 oz

Note: For row spacings not listed, calculate the rate per acre for the 12-inch base from the 48-inch row figure.

Post-emergence Basal Treatment: Apply 1 1/2 to 2 oz per 100 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt.

Corn: Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre. For surface cutworms, apply just prior to planting or when larvae first appear, and work into soil 1-2 inches, immediately. Do not apply later than July 1.

For subterranean cutworms, apply just prior to planting and work into soil 3-6 inches, immediately.

Wireworms: Apply 1-4 gals per acre just prior to planting in a 12-inch band 4-6 inches, immediately.

Corn Rootworm: Apply 1-4 gals per acre just prior to planting in a 12-inch band 4-6 inches, immediately. Do not apply later than July 1 in the Northern Corn Belt.

Cowpeas

Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Lespedeza

Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Peanuts

Cutworms: Apply 2 qts per acre in a 12-inch band over the row. Thorough coverage of the foliage is essential. Begin application when small larvae appear. Two or three additional applications at three-week intervals may be necessary. Do not apply within 21 days of peanut harvest. Livestock may be fed peanut hulls, may be fed peanut forage 7 days following treatment and may be fed peanut hay 21 days following treatment.

Sorghum

Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Soybeans

Cutworms (Surface and Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Sugar Beets

Wireworms: Broadcast 3-4 gals per acre just prior to planting, and work into soil 4-6 inches immediately. Tops may be fed to beef and dairy animals.

Sugarcane

Wireworms: Apply 1 gal per acre in a 12-inch band centered over the furrow. Make application directly to seed pieces in open furrow at covering time.

Tobacco

To control the tobacco root-knot disease, apply 1/2 to 1 gallon of water per acre containing 1/2 to 1 ounce of insecticide to the soil in the fall.

Control of the tobacco root-knot disease may be accomplished by the use of water per acre containing 1/2 to 1 ounce of insecticide to the soil in the fall.

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Bermudagrass and Forage Grasses (other than Range and Pasture Grasses)

Apply 1/2 to 1 gallon of water per acre containing 1/2 to 1 ounce of insecticide to the soil in the fall.

Control of the tobacco root-knot disease may be accomplished by the use of water per acre containing 1/2 to 1 ounce of insecticide to the soil in the fall.

Control of the tobacco root-knot disease may be accomplished by the use of water per acre containing 1/2 to 1 ounce of insecticide to the soil in the fall.

Rangeland, Pasture, Ditch Banks, Roadsides, Wasteland, Noncrop Areas, and Barrier Strips

Grasshoppers. Apply 1/2 to 1 pt per acre in water or oil in a minimum of 1 gal. of oil per acre when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

Dairy and beef cattle and sheep (1) may be grazed immediately following application; (2) may be fed green forage immediately following cutting; and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either a or ground equipment. Do not repeat application for 30 days.

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladiolus, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

Insects	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leaf Miners, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers (Cottony Cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Two Spotted Mites, Webworms, Whiteflies	1/2 fl. oz.	1 pt.

Insects	Rate per 3 gals water	Rate per 100 gals water
Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.	1 1/2 oz.	1 1/2 pt.

1. Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

2. Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

3. Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

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2. Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

3. Apply to 1 lb. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

Billbugs and White Grubs
Japanese beetle larva European chafer and Southern chafer

Apply 4 fl. oz. (2 1/2 tablespoons) in 1 gal. water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area. Use 1/2 pt. of water per 100 sq. ft. of area.

Insects	Rate: 1,000 sq. ft.		Remarks
	Diazinon 4 AG	Water	
Lawn Chinch Bugs	2 1/2 fl. oz. or 3 1/2 fl. oz.	2 1/2 gals.	Use higher rate for longer residual control and in lawns of dense growth.
Ants, Army worms, Clover Mites, Collem beetle (Spring tails), Crickets, Cutworms, Dogger Wasps, Earwigs, Fire Flies, Lawn Billbugs, Sod Webworms, Lawn Moth, Sowbugs	4 fl. oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For fire flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary.
Brown Dog Ticks	1 1/4 fl. oz.	3 gals.	Do not apply to animals. For brown dog ticks, spray grass and under shrubbery particularly near house.
Bermuda Mites, Chiggers, Fleas, Leafhoppers	8 fl. oz.	3 gals.	
Millipedes	5 fl. oz.	2 1/2 gals.	Apply when crawlers first emerge.

* Alternately make application in 3 gals. of water per 1,000 sq. ft. and thoroughly water immediately following application.

Pine (Seed Orchards, Plantations, Forests)

Arkansas Sawfly (lobed Sawfly) Apply 1/2 pt. per acre over the tree canopy. Application should be made at or near the completion of egg hatch. Aerial applications should be made with a minimum of 2 gals. of spray per acre, in swaths not more than 90 ft. wide. Repeat application as needed.

NOTICE: Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals, not specified, are recommended. Do not apply to lawns. In the use of this product, always read the contents of the label. Always use the correct use of the product and do not mix with other products unless directions permit.

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The Charles H. Lilly Co.
 Portland, Oregon 97218
 EPA Est. No. 802-OR-1