

PM 15
100-456
HQ 10-11

MAY 14 1990

Ms. Carolyn Bussey
Ciba-Geigy Corporation
P.O. Box 18300
Greensboro, NC 27419

Subject: Amendments - Revise in response to Diazinon Registration
Standard and Agency letter dated January 26, 1990;
Adjust application rates to reflect 2 lb a.i./gallon;
Revise lawn rates for brown dog ticks, chiggers, and fleas;
Delete crops - apples and pears
D-z-n Lawn & Garden Insect Control
EPA Reg. No. 100-456
Your submission dated April 12, 1990

Dear Ms. Bussey:

The revised labeling submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the following revisions are made prior to release for shipment under the amended label:

CONTAINER LABEL:

- 1) Under the heading "Fruits and Nuts", delete the section on apples and pears, since you have deleted these crops from the directions booklet to reflect your lack of residue studies required under the Diazinon Registration Standard for diazinon emulsifiable concentrates on these fruits.

BOOK LABELS:

- 1) All the handwritten revisions and deletions which you have indicated on this current submission must be incorporated in the finished labels.

A stamped copy of the container and the booklet label is enclosed for your records. Please submit five (5) copies of the revised amended labeling prior to release for shipment under the amended label. If a revised version of this label will be prepared to serve as a guide to your customers and will be available before the finished product labeling for release for shipment, the Agency would appreciate receiving a copy of that guide label also.

BEST AVAILABLE COPY

Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

25E

D·z·n®

lawn & garden
insect
control.

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

Protects

Lawns
Vegetables
Fruits & Nuts
Roses
Flowers
Trees
Shrubs

Controls

Ants, Aphids
Chinch Bugs
Cutworms
Fire Ants†
Flea Beetles
Grubs, Mites
Sod Webworms
and many others

†Aids in control.

See full label in booklet under cap
for complete directions for *Mixing and*
Applying this product, and a complete
list of pests controlled.

Active Ingredients:

Diazinon: O,O-Diethyl O-(2-isopropyl-
6-methyl-4-pyrimidinyl) phosphorothioate 25.0%

Inert Ingredients*: 75.0%

Total: 100.0%

*Contains xylene range aromatic solvent.

Spray concentrate. Contains
diazinon insecticide.

KEEP OUT OF REACH OF CHILDREN.

WARNING

See side panel for additional
precautionary statements.

Net Contents
One Pint or 8 oz. or 1 qt.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

*See
Stamp
below*

JAN 25 1990

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

100-456

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 14 1990

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

100-456

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DIRECTIONS FOR USE

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

General Information

D·z·n Lawn & Garden Insect Control is an emulsifiable concentrate product which must be diluted with water before application. This product kills many outdoor pests which damage lawns, roses, flowers, trees, shrubs, vegetables and fruits and insects which annoy pets and people.

SEE THE BOOKLET UNDER CAP FOR COMPLETE DIRECTIONS FOR USE AND PESTS CONTROLLED.

Notes: (1) USE CONTENTS WITHIN 6 MONTHS AFTER OPENING. (2) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since plant injury may occur. (3) Do not use on commercially-grown potatoes which will be hand-harvested. (4) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties.

Do not use in the home

After spraying wait the following number of days before harvesting fruits, nuts, or vegetables:

- Same day - Peas, Sweet Corn
- 1 day - Tomatoes
- 3 days - Melons, Winter Squash
- 5 days - Broccoli, Cauliflower, Peppers, Strawberries
- 7 days - Beans, Blackberries, Boysenberries, Cabbage, Cranberries, Cucumbers, Dewberries, Loganberries, Summer Squash
- 10 days - Apricots, Carrots, Celery, Cherries, Chinese Broccoli, Chinese Cabbage, Collards, Endive, Kale, Lettuce, Nectarines, Onions, Parsnips, Plums, Prunes, Radishes, Spinach, Turnips
- 14 days - Apples, Beets, (Red Table), ~~Peas~~
- 18 days - Grapes
- 20 days - Peaches
- 35 days - Potatoes (Irish)
- 45 days - Almonds, Walnuts

Precautions: 1) Wear a long-sleeved shirt and long-legged pants when spraying. 2) Spray with the wind to your back. 3) Do not spray on windy days. 4) If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water and launder clothing before wearing again.

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*This table is only a partial listing of the pests controlled by this product. See booklet under cap for complete directions for use and pests controlled.

<u>Problem Area</u>	<u>Pests*</u>
<u>Nuisance Pests in Outside Areas</u>	Ants, Brown Dog Ticks, Chiggers Cockroaches, Crickets, Fleas, Fire Ants, Spiders and others
<u>Lawns</u>	Chinch Bugs, Ants, Sod Webworms, Brown Dog Ticks, Fleas, White Grubs, Lawn Billbugs and others*

Vegetables: Foliar Application

Beans, Peas (except dried varieties)	Aphids, Cucumber Beetles, Grasshoppers, Leafhoppers, Mexican Bean Beetles, Mites
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Broccoli, Chinese Broccoli, Cabbage, Chinese Cabbage Cauliflower, Collards, Kale	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Mites and others* <i>Diamond-back moths, Imported cabbage worms.</i>
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Celery, Endive (Escarole) Lettuce, Spinach	Aphids, Flea Beetles, ^{<i>Spider</i>} (Leafhoppers, Dipterous Leafminers, Mites and others*)
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(Tomatoes)

Peppers,
Tomatoes

Aphids, Colorado Potato Beetles, Fall
Armyworms (Tomatoes), Flea Beetles,
Leafhoppers, Southern Armyworms, Vinegar
Flies - Drosophila spp. (Tomatoes)

Onions, Green and
Bulb

Onion Thrips

Radishes,
Turnips,
Carrots,
Parsnips,
Potatoes

Aphids, Flea Beetles, Leafhoppers,
Dipterous Leafminers, Mites, Colorado
Potato Beetle, Southern Armyworms (Potatoes)
(Potatoes), ↑

Sweet Corn

Aphids, Flea Beetles, Grasshoppers, Mites

Melons,
Squash (Summer,
Winter),

Aphids, Thrips, Mites

Vegetables: Preplant Soil Application

Beans, Peas
(except dried
varieties)

Cutworms, Mole Crickets, Wireworms (snap
beans)

Beets, Red
(Table)

Mole Crickets

Cabbage

Cutworms, Root Maggots, Wireworms

Carrots, Sweet
Corn

Cutworms, Mole Crickets, Wireworms

Lettuce, Tomatoes

Cutworms, Wireworms

Radishes, Turnips

Cutworms

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Fruits & Nuts

Almonds, (~~CA only~~) Aphids, Scale Crawlers, Spider Mites and
Walnuts others
(California only - both crops)

Apples, Pears Aphids, Codling Moths, Leafhoppers,
Tentiform Leafminers (Pears), Maggots
(Apples), Mealybugs, Mites, Scale Crawlers
~~and others*~~

leave, OK ↗

Apricots, Peaches, Aphids, Apricot Mealybugs (Apricot), Mites, ^s Spider
Nectarines Scale Crawlers, and ~~others*~~ _{1 1}

Cherries Black Cherry Aphids, Cherry Fruitflies,
Mites, Scale Crawlers, and ~~others*~~

Spider

leave, OK ↗

Plums, Prunes Aphids, Mites

Caneberries Aphids, Leafhoppers, Two-Spotted Mites,
(blackberries, Thrips, Raspberry Fruitworms
boysenberries,
dewberries,
loganberries,
raspberries)

(California, Oregon, Washington only - all crops)

Strawberries Aphids, Two-Spotted Mites, Strawberry
Leafrollers

Grapes Aphids, Grape Berry Moths, Grape
Leafrollers, Leafhoppers, ~~Scale Crawlers~~

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Roses & Flowers:

Azalea, Camellia, Aphids, Flea Beetles, Dipterous Leafminers,
Chrysanthemum, Leafhoppers, Mealybugs, Two-spotted Spider
Carnation, Mites, Thrips, Whiteflies and others:
Gladioli, Lilac,
Rhododendron,
Roses

Trees & Shrubs

Arborvitae, Aphids, Mites, Scale Crawlers, Whiteflies,
Azalea, Birch, Tent Caterpillars and others*
Boxwood, Camelia,
Douglas Fir, Elm,
Hawthorn Holly,
Juniper, Lilac,
Locust, Maple,
Mimosa, Oak, Pine,
Ornamental Plum,
Poplar,
Rhododendron,
Spruce, Willow

Storage and Disposal

Storage:

Do not store near heat or open flame. Store in original container in an area inaccessible to children or pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

Disposal:

Do not reuse empty container. Thoroughly rinse container, securely wrap in several layers of newspaper, and discard in trash. If disposal of a partially full container is necessary, make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash.

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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

May be fatal if swallowed or absorbed through skin. Avoid breathing spray mist. Causes substantial but temporary eye damage. Do not get in eyes, on skin, or clothing. Wear goggles or safety glasses. Avoid contact with eyes and skin. Wash thoroughly if on skin and after handling. Avoid contamination of feed and foodstuffs: Do not use on household pets or humans. Do not permit children or pets to go onto sprayed grass until the spray has completely dried. Do not use in the home. Do not contaminate ornamental fish ponds. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.

Statement of Practical Treatment

If swallowed: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled: Remove victim to fresh air and apply artificial respiration if indicated.

If on skin: Wash promptly with soap and water. Rinse thoroughly.

If in eyes: Rinse eyes with plenty of water and call a physician immediately.

Note to Physician: This product 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. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

Environmental Hazards

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl feeding or drinking on treated areas may be killed. Because of the migratory

Continued

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in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment)

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. Where irrigation (watering) is recommended, apply a minimum of ~~0.25~~ ^{1/2} inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). 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 pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Physical or Chemical Hazards

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

D-z-n® trademark of CIBA-GEIGY for diazinon

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA A1L1R 18 (1 pint)
CGA A1L21G (8 oz.)
CGA A1L3R 16 (1 quart)
Label goes with booklet CGA A1L9J (November 30, 1983)

EPA Reg. No. 100-456

EPA Est.

September 15, 1982
Revised October 4, 1983
(Great Value Campaign)
Revised Feb. 22, 1984
(PR-Notice 83-3)
Storage & Disposal,
Changed copyright date,
removed Great Value
Statement)

12.11.21

Revised April 4, 1988
Do not use on golf
courses and sod farms. -
Accepted

Revised Nov. 11, 1988
Deleted unsupported
crops under 5/1/87 EPA
Data Call-In - Reduced lawn
rates to 4 lbs. a.i. max.

Revised March 9, 1989 -
Deleted xylene from a.i.,
moved to inerts, revised
Hazards to Humans, Note to
Physician, storage and
disposal, revised dfu's to
reflect rates and app.
intervals in data call-in
repeat residue chem. tests.

Revised August 10, 1989
Deleted rates, referred user
to booklet label.

Revised November 30, 1989
Add Reg. Standard Changes,
some reformatting.

Revised December 6, 1989
Reformatting for Reg.
Standard Changes

Revised ^{Apr. 12, 1990} per EPA letter of
1/26/90

(LABELS-D.4 - DZN/LGIC/PT)

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PM15
100-456
PC 1-28-34

MAY 14 1990

Ms. Carolyn Bussey
Ciba-Geigy Corporation
P.O. Box 18300
Greensboro, NC 27419

Subject: Amendments - Revise in response to Diazinon Registration
Standard and Agency letter dated January 26, 1990;
Adjust application rates to reflect 2 lb a.i./gallon;
Revise lawn rates for brown dog ticks, chiggers, and fleas;
Delete crops - apples and pears
D-z'n Lawn & Garden Insect Control
EPA Reg. No. 100-456
Your submission dated April 12, 1990

Dear Ms. Bussey:

The revised labeling submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the following revisions are made prior to release for shipment under the amended label:

CONTAINER LABEL:

- 1) Under the heading "Fruits and Nuts", delete the section on apples and pears, since you have deleted those crops from the directions booklet to reflect your lack of residue studies required under the Diazinon Registration Standard for diazinon emulsifiable concentrates on these fruits.

BOTH LABELS:

- 1) All the handwritten revisions and deletions which you have indicated on this current submission must be incorporated in the finished labels.

A stamped copy of the container and the booklet label is enclosed for your records. Please submit five (5) copies of the revised amended labeling prior to release for shipment under the amended label. If a revised version of this label will be prepared to serve as a guide to your customers and will be available before the finished product labeling for release for shipment, the Agency would appreciate receiving a copy of that guide label also.

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Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

2.5-E

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BOOKLET

(For use with 8 oz., 1 pt., and 1 qt. containers)

D·z·n® Lawn and Garden Insect Control

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

See stamp below
ACCEPTED with COMMENTS in EPA Letter Dated: JAN 25 1990

Protects

- Lawns
- Vegetables
- Fruits & Nuts
- Roses
- Flowers
- Trees
- Shrubs

Controls

- Ants, Aphids
- Chinch Bugs
- Cutworms
- Fire Ants†
- Flea Beetles
- Grubs, Mites
- Sod Webworms
- and many others

†Aids in control.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-456

Active Ingredients:

Diazinon: C,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	25.0%
Inert Ingredients*:	75.0%
Total:	100.0%

*Contains xylene range aromatic solvent.

Spray concentrate. Contains diazinon insecticide.

KEEP OUT OF REACH OF CHILDREN.

WARNING

See end of booklet for additional precautionary statements.

ACCEPTED with COMMENTS in EPA Letter Dated:

MAY 14 1990

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-456

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

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DIRECTIONS FOR USE

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

General Information

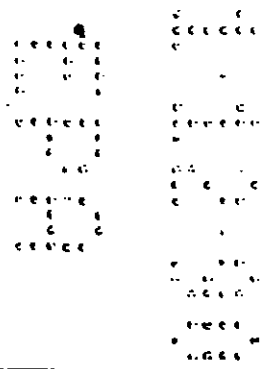
D·z·n Lawn and Garden Insect is an emulsifiable concentrate product which must be diluted with water before application. Refer to the section "How to Mix and Apply." This product kills many outdoor insects which damage lawns, roses, flowers, trees, shrubs, vegetables, fruits and nuts, and insects which annoy pets and people. (REFER TO LABEL/DIRECTIONS/IN BOOKLET/UNDER CAP FOR SPECIFIC/INSECTS/CONTROLLED/AND/COMPLETE DIRECTIONS FOR USE.)

Contains diazinon insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. D·z·n works fast and ~~remains effective for an extended period of time.~~ *applications should be repeated only as directed to maintain control.*

Notes: (1) ~~USE CONTENTS WITHIN 6 MONTHS AFTER OPENING. SEE "STORAGE AND DISPOSAL" DIRECTIONS.~~ (2) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids, since injury may occur. (4) Do not use on commercially-grown potatoes which will be hand-harvested. (5) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties.

Precautions: 1) Wear a long-sleeved shirt and long-legged pants when spraying. 2) Spray with the wind to your back. 3) Do not spray on windy days. 4) If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water, and launder clothing before wearing again.

(2) Do not use in the house



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How to Mix and Apply:

Step #1: Determine size of spraying job. For lawns and vegetables, measure the area to be sprayed. For all other applications, apply as a thorough cover spray. Make applications when insects first appear. Applications should be repeated only as directed to maintain control.

Step #2: Use clean sprayer. Carefully measure and mix the amount of D·z·n and water as suggested in the rate chart.

Step #3: Spray as directed in rate chart. Thorough coverage is important. Flush sprayer with clean water after each use.

See chart for complete insect list. Use rates shown unless otherwise indicated.

$1\frac{1}{2}$ ~~tablespoon~~ = $1\frac{3}{4}$ ~~teaspoons~~
 1 fl. oz. = 6 teaspoons or 2 tablespoons
 6 fl. oz. = $\frac{3}{4}$ cup
~~3 $\frac{3}{4}$ teaspoons~~ in 3 gals. of water = $1\frac{2}{4}$ ~~teaspoon~~^s in 1 gal. of water or ~~3 $\frac{3}{4}$ ozs.~~ in 18 gals. of water

Handwritten scribble

2 tablespoons to 6oz.

Faint, illegible text or markings at the bottom right of the page.

Lawn Pest Control

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Merion and St. Augustine grass.

To control pests listed below, apply recommended rates. ~~For~~ control of ~~Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola)~~, which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house, as well as the house foundation wall to a height of 2-3 ft. Repeat application if necessary.

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping of sprays. If waterfowl, i.e., ducks, geese can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application, however, stop watering before puddling occurs.

When irrigation is recommended in the directions of

Spraying this product.

Pests	Rate		Remarks
	D.2.n <i>1 1/2 Tablespoons</i>	Water	
Lawn Chinch Bugs	3 3/4 tea- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals. 24 gals.	Thoroughly wet down grass a few hours before applying. Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns. In the North, if Chinch Bugs are the only problem, a lower rate of application can be used: 3 teaspoons in 3 gals. of water covers 125 sq. ft. or 4 fl. ozs. in 24 gals. of water per 1000 sq. ft.

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P2 10/24

Pests	Rate		Remarks
	D. z. n	Water	
<p><i>Bermuda grass mites</i> →</p> <p>Ants, Armyworms, Clover Mites, Springtails (Collembola), Crickets</p>	<p><i>1 1/2 Tablespoons</i></p> <p>3 3/4 tea- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.</p>	<p>3 gals. 24 gals.</p>	<p>Thoroughly wet down grass a few hours before applying. <i>For ants and digger wasps</i></p> <p>Spot spray ant hills and wasp ground nest openings.</p>
<p><i>Leafhoppers</i></p> <p>Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs (Bill bugs)</p>	<p><i>1 1/2 Tablespoons</i></p> <p>3 3/4 tea- spoons per 125 sq. ft. or 5 fl. ozs. per 1,000 sq. ft.</p>	<p>3 gals. 24 gals.</p>	<p>For frit flies, mow grass and water well before treatment, but delay application until grass is dry.</p> <p>For digger wasps, apply at dusk, when wasps are not active.</p>
<p><i>6 fl. ozs.</i></p> <p>Brown Dog Ticks, Bermudagrass Mites, Chiggers, Fleas, Leafhoppers</p>	<p><i>1 1/2 Tablespoons</i></p> <p>1 3/4 tea- spoons per 125 sq. ft. or 5 table spoons per 1,000 sq. ft.</p>	<p>3 gals. 24 gals.</p>	<p>Note: Do not apply to animals.</p> <p>For brown dog ticks, spray grass and under shrubbery, particularly near house.</p>
Millipedes	<p><i>1 1/2 Tablespoons</i></p> <p>4 1/2 tea- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.</p>	<p>3 gals. 24 gals.</p>	<p>Thoroughly wet grass a few hours before applying.</p>
Rhodesgrass Scales	<p><i>1 1/2 Tablespoons</i></p> <p>4 1/2 tea- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.</p>	<p>3 gals. 24 gals.</p>	<p>Apply when crawlers first emerge.</p>

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Bill bugs notes from page

9-54

Pests	Rate		Remarks
	D.z.n <i>1 1/2 Tablespoons</i>	Water	
Billbugs, White Grubs of Japanese Beetle, European Chafer, Southern Chafer	4 1/2 tea-spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals. 24 gals.	Water grass thoroughly after application. Grub control: Apply any time between late July and early October. Billbug control: Apply when activity is first observed or when chewed or brown grass is present indicating damage from the insect.
Hyperodes Weevil	4 1/2 tea-spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals. 24 gals.	Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.
Boxelder Bugs	1 3/4 tea-spoons per 125 sq. ft. or 5 tablespoons per 1,000 sq. ft.	3 gals. 24 gals.	Spray bugs outside the home and thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

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22 10 30

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)*

Insert 1

Mix 6 fl. ozs. 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. *Do not treat plants other
than tree trunks at this nuisance pest
rate.*

*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 ft.

Fire Ants

To aid in the control of fire
ants in lawns and other
recreational areas, apply
2 tablespoons 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.

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Insect!

Nuisance Pests in Outside Areas

Ants, Boxelder Bugs, Brown Dog Ticks,
Chiggers, Clover mites, Cockroaches,
Crickets, Earwigs, Fleas, Flies, Milliped
Sow bugs (pillbugs), Spiders, Springtails
(Collembola).

6 Fl. 035

Mix ~~3~~ ³ ~~fl.~~ ^{oz.} in 3 gallons of
water and thoroughly spray
windows and door screens, sills,
foundations, porch and patio
walls and ceilings, entrance ways,
watts garbage cans, tree trunks,
and into cracks and other
places where insects can
hide.

To prevent entry into
houses spray a five foot
band of salt around the
house next to the foundation
and spray the foundation of
the house to a height of
2-3 ft. Repeat application
as necessary.

Insect Control on Trees, Shrubs and Flowers

Trees & Shrubs	Insects	Rate per 3 gals. of water	Timing/Special Directions
Arborvitae, Azalea, Birch, Boxwood, Camellia, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Spruce, Willow	Aphids, Bagworms, European Pine Shoot Moths, Holly Bud Moths, Dipterous Leaf- miners (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak), Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Twospotted Spider), Obscure Root Weevils, Omnivorous Leaf- tiers, Scale Crawlers, (Cottonycushion, Eynonymous, Lecanium, Pine Needle, Pit Scale, San Jose, Soft)	4 1/2 teaspoons 2 Tablespoons	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
Webworms (Juniper, Whiteflies Mimosa)		4 1/2 teaspoons	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.

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Insect Control on Trees, Shrubs and Flowers

<u>Trees & Shrubs</u>	<u>Insects</u>	<u>Rate per 3 gals. of water</u>	<u>Timing/Special Directions</u>
Arborvitae, Azalea, Birch, Boxwood, Camellia, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Orna- mental X Plum, Poplar, Rhododendron, Spruce, Willow (Continued)	Apple and Thorn Skeletonizers, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall)	3 1/2 oz. 2 Tablespoons	Apply as a thorough foliar spray.

Roses and Flowers

Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, Eunonymus Scale Crawlers, Flea Beetles, Dipterous Leafminers, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Twospotted Spider), Thrips, Whiteflies	1 1/2 teaspoons 2 Tablespoons	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.
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Fruits and 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.

Observe stated time intervals between last application and harvest of the crop, as well as intervals between applications and total number of applications that can be made per season.

Crop	PHI*
Almonds	45
Apples	14
Apricots	10
Blackberries	7
Boysenberries	7
Cherries	10
Cranberries	7
Dewberries	7
Grapes	18
Loganberries	7
Nectarines	10
Peaches	20
Plums	10
Prunes	10
Raspberries	7
Strawberries	5
Walnuts	45

*PHI = Pre-Harvest Interval, or the number of days between the last application and harvest.

Note: To protect bees, do not apply to fruit trees when trees or substantial numbers of weeds around the trees are in bloom.

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Crop	Pest	Rate	Timing, Special Directions
Almonds (Ca. only) <i>San Jose scale, Parlatoria scale,</i>	Aphids, Scale Crawlers, Spider Mites, Twig Borers	4 1/2 tea- ^{2 Tablespoons} spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season 14 days apart. This product may be used on almonds only in California. Do not apply after husks open or split. Do not apply within 45 days of harvest. Do not use this product on almonds grown in other states.
Apples	Aphids, Codling Moths, Eyespotted Bud Moths, Fruittree Leaf- rollers, Leaf- hoppers, Tentiform Leafminers, (pears), Maggots, (apples), Mealybugs, Mites (European Red, Clover [brown], Pacific Twospotted Spider), Scale (pears) Scale Crawlers, Cottony- cushion, San Jose, Forbes, Soft)	^{2 Tablespoons} 4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season a minimum of 14 days apart. On apples, slight russeting may occur on some varieties such as Golden Delicious. Do not apply within 14 days of harvest.

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Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Apricots	Aphids, Apricot Mealybugs, Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive X , San Jose)	1 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 6 applications per season a minimum of 14 days apart. Do not apply within 10 days of harvest.
Cane- berries (WA, OR, CA only) Black- berries, Boysen- berries, Dew- berries, Logan- berries, Rasp- berries	Aphids, Leaf- hoppers, Raspberry Fruitworms, Twospotted Mites, Thrips	2 1/4 tea- spoons in 2 1/2 gals. of water <i>2 Tablespoons</i> <i>in 3 gals. of</i> <i>water</i>	Apply as a full cover spray. Do not apply more than 5 gallons per 500 sq. ft. of field. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 7 days of harvest. This product may be used on caneberries only in WA, OR and CA. Do not use this product on caneberries grown in other states.

*California, Oregon and
Washington.*

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Crop	Pest	Rate <i>2 Table spoons</i>	Timing/Special Directions
Cherries	Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruittree Leaf- rollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 10 days of harvest.
Grapes	<i>Aphids</i> Leaf- hoppers, Grape Berry Moths, Grape Leaf- folders, Aphids	<i>2 Table spoons</i> 4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. 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 harvest.
Nectarines	Aphids, Mites (Clover [brown], Twospotted Spider) Scale Crawlers (Olive, San Jose)	<i>2 Table spoons</i> 4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 10 days of harvest.

Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Peaches	Aphids, Mites (Clover [brown], Twospotted Spider) Scale Crawlers (Olive, San Jose)	4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season a minimum of 14 days apart. Do not apply within 10 days of harvest on apricots and nectarines. Do not apply to peaches within 20 days of harvest.
Pears	Aphids, Codling Moths, Eyespotted Bud Moths, Fruittree Leaf- rollers, Leaf- hoppers, Tentiform Leafminers Mealybugs, Mites (European Red, Clover [brown], Pacific, Twospotted Spider), Asylla Scale Crawlers (Cottony- cushion, San Jose, Forbes, Soft)	<i>2 Tablespoons</i> 4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season a minimum of 14 days apart. Do not apply within 14 days of harvest.

Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Plums and Prunes	Aphids (Leafcurl Plum, Mealy Plum, Thistle), Mites (Clover [brown], European Red)	4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season a minimum of 7 days apart. Do not apply within 10 days of harvest.
Strawberries	Aphids, Twospotted Mites, Strawberry Leafrollers	2 1/4 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons 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.
Walnuts (CA only) <i>walnut scale,</i> <i>Scale crawlers</i> <i>(Walnut, Italian pear, frosted)</i>	Aphids, Scale Crawlers, Spider Mites, Twig Borers	4 1/2 tea- spoons in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season 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 walnuts only in California. Do not use this product on walnuts grown in other states.

Vegetable Crops

For foliar or soil applications, D-z-n lawn and garden insect control should be applied in the volume of water recommended in the table below to assure thorough coverage of the foliage or soil.

Observe stated time intervals between last application and harvest as well as intervals between applications and maximum numbers of applications per season.

Pre-Harvest Intervals (PHI*)
for Foliar Applications

Crop	PHI* (Days)
¹ Beans, Lima Pole & Snap	7
Beets, Red (Table)	14
Broccoli	5
Cabbage	7
Cantaloupes	3
Carrots	10
Casabas	3
Cauliflower	5
Celery	10
Chinese Broccoli	10
Chinese Cabbage	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	10
Honeydew Melons	3
Kale	10
Lettuce	10
Muskmelons	3
Onions, Bulb & Green	10
Parsnips	10
¹ Peas	0
Peppers	5
² Potatoes (Irish)	35
Radishes	10
Spinach	7
Squash, summer	7
Squash, winter	3
Sweet Corn	0
Tomatoes	1
Turnips	10
Watermelons	3

*PHI = Pre-harvest Interval, or the number of days between the last application and harvest.

¹Do not use this product on dried pea or bean varieties such as pinto beans, dried limas, or dried blackeyed peas.

²Do not use this product on commercially grown potatoes which will be hand-harvested.

black-eyed

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Vegetable Crops

For application to the foliage, thoroughly spray all plant parts. Application to the soil should be mixed into the soil immediately after application.

varieties

Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Beans, Lima, Pole and Snap (succulent varieties only)	Aphids, Cucumber beetles, Grass- hoppers, Leaf- hoppers, Mexican Bean Beetles, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. 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.
	Cutworms (surface, subter- ranean)	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>2 Tablespoons</i>	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	4 1/2 tea- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms (snap beans only)	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

Note: To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.

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Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms (surface, subterranean)	⁶ 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediate- ly work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	4 1/2 ^{2 Table spoons} table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water 2 Table spoons	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	4 1/2 ^{2 Table spoons} table- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 appli- cations per season. Do not apply within 5 days of harvest.
Cabbage (leaf)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	4 1/2 ^{2 Table spoons} table- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 appli- cations per season. Do not apply within 7 days of harvest.
	Cutworms (surface, subterranean)	⁶ 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediate- ly work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Root Maggots	⁶ 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediate- ly work into soil 3-4 inches.

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Crop	Pest	Rate	Timing/Special Directions
Cabbage <i>LAAM</i>	Wireworms	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>2 Tablespoons</i>	Broadcast to the soil just before planting. Immediate- ly work into soil 4-8 inches.
Carrots	Aphids, Flea Beetles, Leaf- hoppers, Colorado Potato Beetle, Southern Armyworm, (potato) , Dipterous Leafminers, <i>Spider mites</i>	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>6</i>	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 appli- cations per season. Do not apply within 10 days of harvest.
	Cutworms (surface, subter- ranean)	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>2 Tablespoons</i>	Broadcast to the soil just before planting. Immediate- ly work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	4 1/2 tea- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>6</i> <i>2 Tablespoons</i>	Broadcast to the soil just before planting. Immediate- ly work into soil 4-8 inches.
Cauli- flower	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application even 7 days up to 5 applica- tions per season. Do not apply within 5 days of harvest.

Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Celery <i>Spider</i>	Aphids, Flea Beetles, Leaf-hoppers, Dipterous Leafminers, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Chinese Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Collards	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage-worms, Dipterous Leafminers	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Corn (see sweet corn)		<i>2 Tablespoons</i>	
<i>Spider</i> Cucumbers	Aphids, Thrips, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.

Crop	Pest	Rate	Timing/Special Directions
Endive (Escarole) Spider	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden 2 Tablespoons	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Kale	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden 2 Tablespoons	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Lettuce Spider	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
	Cutworms (surface, subter- ranean)	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

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Crop	Pest	Rate	Timing/Special Directions
<p>K</p> <p>Melons (Cantaloupes, spider Casabas, Crenshaws, Honeydews, Musk- melons, Persians and Hybrids of these) and Water- melons</p> <p>✓</p>	<p>Aphids, Thrips, Mites</p>	<p><i>2 Table spoons</i></p> <p>4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden</p>	<p>Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.</p>
<p>Onions, Green & Bulb</p>	<p>Onion Thrips</p>	<p><i>2 Table spoons</i></p> <p>4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden</p>	<p>Thoroughly spray all plant parts. Repeat application every 7 days up to 3 applications per season. Do not apply within 10 days of harvest.</p>
<p>Parsnips</p>	<p>Aphids, Flea Beetles, Leaf- hoppers, Colorado Potato Beetles, Southern Armyworms, (potato) Dipterous Leafminers <i>spider mites</i></p>	<p><i>2 Table spoons</i></p> <p>4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden</p>	<p>Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.</p>
<p>Peas (succulent only)</p> <p>(corn)</p> <p><i>Spider</i></p>	<p>Aphids, Cucumber Beetles, Grass- hoppers, Leaf- hoppers, Mexican Bean Beetles, Mites</p>	<p><i>2 Table spoons</i></p> <p>4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden</p>	<p>Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Peas may be picked immediately after application.</p>

Crop	Pest	Rate	Timing/Special Directions
Peas (succulent only) (cont.)	Cutworms (surface, subterranean)	4-1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>2 Tablespoons</i>	Broadcast to soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	4-1/2 tea- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	4-1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

Notes: ¹⁾ Do not apply this product to dried pea varieties such as split peas. *To protect bees, do not apply to pea foliage during the pollen shed period.*

Peppers <i>2 Tablespoons</i>	Aphids, Colorado Potato Beetle, Flea Beetles, Leaf- hoppers	4-1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do not apply within 5 days of harvest.
Potatoes	Aphids, Flea Beetles, Leaf- hoppers, Colorado Potato Beetle, Southern Armyworms (potato), Dipterous Leafminers	4-1/2 tea- spoons 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 35 days of harvest. Note: Do not use on commercially-grown potatoes which will be hand-harvested.

Crop	Pest	Rate <i>2 Table spoons</i>	Timing/Special Directions
Radishes	Aphids, Flea Beetles, Leaf-hoppers, Colorado Beetle , Southern Armyworms, (pumpkin), Dipterous Leafminers	4 1/2 tea- spoons 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.
	Cutworms (surface, subterranean)	4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water <i>6 Table spoons</i>	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Spinach	Aphids, Flea Beetles, Leaf-hoppers, Dipterous Leafminers, Mites <i>Spider</i>	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Table spoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do not apply within 10 days of harvest.

Imported Cabbage Worm

Crop	Pest	Rate	Timing/Special Directions
Squash, Summer <i>Spider</i>	Aphids, Thrips, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.
Squash, Winter <i>Spider</i>	Aphids, Thrips, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.
Sweet Corn <i>Spider</i>	Aphids, Flea Beetles, Grass- hoppers, Mites	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden <i>2 Tablespoons</i>	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. Corn may be picked immediately following last application.
	Cutworms (surface, subter- ranean)	⁶ 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	<i>2 Tablespoons</i> 4 1/2 tea- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
	Wireworms	⁶ 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

Note: To protect bees do not apply to corn foliage treatments during the pollen shed period.

Crop	Pest	Rate <i>2 Tablespoons</i>	Timing/Special Directions
Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern Armyworms, Vinegar Flies (Drosophila spp.)	4 1/2 tea- spoons in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do not apply within 1 day of harvest.
	Cutworms (surface, subterranean)	<i>6 Tablespoons</i> 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	<i>6 Tablespoons</i> 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
Turnips and Turnip Tops	Aphids, Flea Beetles, Leafhoppers, Colorado Potato Beetle, Southern Armyworms, (Potato), Dipterous Leafminers	<i>2 Tablespoons</i> 4 1/2 tea- spoons 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.
	Cutworms (surface, subterranean)	<i>6 Tablespoons</i> 4 1/2 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Imported Cabbage Worm →

Storage and Disposal

Storage:

Do not store near heat or open flame. Store in original container in an area inaccessible to children and pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

Disposal:

Do not reuse empty container. Thoroughly rinse container, securely wrap it in several layers of newspaper and discard in trash. If disposal of a partially full container is necessary, make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

treated area, such as grass or soil.

May be fatal if swallowed or absorbed through skin. Avoid breathing spray mist. Causes substantial but temporary eye damage. Do not get into eyes, on skin or clothing. Wear goggles or safety glasses. Avoid contact with eyes and skin. Wash thoroughly if on skin and after handling. Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. Do not permit children or pets to go onto ~~sprayed grass~~ until the spray has completely dried. Do not use in the home. Do not contaminate ornamental fish ponds. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.

Statement of Practical Treatment

If swallowed: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

Continued

If inhaled: Remove victim to fresh air and apply artificial respiration if indicated.

If on skin: Wash promptly with soap and water. Rinse thoroughly.

If in eyes: Rinse eyes with plenty of water and call a physician immediately.

Note to Physician: This product 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. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

Environmental Hazards

This product is highly toxic to birds, fish, and other wild-life. 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. Where irrigation (watering) is recommended, ^{in the directions} apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). 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.

or if waterfowl
i.e. ducks
or geese
can be
expected
in the
treated
area
after
treatment
(except
spot
treatment)
~~area~~

This pesticide is highly toxic to bees exposed to direct treatment 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 timed to provide the maximum possible interval between treatment and the next period of bee activity.

Physical or Chemical Hazards

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

¹⁹⁹⁰
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EPA Reg. No. 100-456

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA A1L9J
(booklet goes with labels)
CGA A1L1R18
CGA A1L21G
CGA A1L3R16)

	July 29, 1981
Revised	May 13, 1982
Revised	Feb. 22, 1984
	(PR Notice 83-3 Storage and Disposal, Changed copyright date).
Revised	April 4, 1988
	This product must not be used on golf courses and sod farms.
	Accepted
Revised	September 13, 1988
	Changed chem. name, reduced turf rates and added avian precautions, de- leted unsupported crops under May 1, 1987 EPA Data Call- In.
Revised	Nov. 4, 1988
	changed chem. back to orig., all corn specified as "sweet" corn per EPA. Reduced lawn rates to 4 lbs. ai max.
Revised	Apr. 12, 1990 per EPA letter of 1/26/90.

Revised March 9, 1989
 Deleted xylene from
 ai, moved to
 inerts, revised
 Hazards to
 Humans..., Note to
 Physician, storage
 and disposal,
 revised dfu's to
 reflect rates and
 app. intervals in
 data call-in,
 repeat residue
 chemistry tests.

Revised November 30, 1989
 Corrected rates per
 EPA letter of
 6/9/89 and added
 Reg. Standard
 Changes.

Revised December 6 1989
 Corrected rates to
 concur with AG500
 label.

Revised January 9, 1990
 readed rates on
 per 125 sq. ft.
 basis for home
 lawns

Revised January 10, 1990
 Corrected "North"
 chinch bug rate
 deleted boxelder
 bugs from lawn
 dfu's ..

(LABELS-D.4 - DZN/LGIC)