

APR 30 1996

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

Dear Ms. Bussey:

Subject: Amendment - Add Blueberries and Rutabagas;  
Add 15 Ornamentals, European Sawfly;  
Revise Disposal directions  
D.z.n Lawn & Garden, Insect Control  
EPA Registration Number 100-456  
Your submission dated May 26, 1995

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. For both the container label and the booklet, in the Environmental Hazards, you may want to revise "if waterfowl, i.e, ducks or geese, can" to read "if waterfowl (ducks or geese) can" as you have done for your other products. Also, since this is a homeowner-use product, revise "Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark." to just "Do not apply directly to water."
  - b. For both the container label and the booklet, capitalize the "F" of "Federal" in the first sentence under the heading DIRECTIONS FOR USE.

- c. On the container label, under the heading **General Information**, add the missing completion of the capitalized sentence so that it reads: "SEE THE BOOKLET UNDER CAP FOR COMPLETE DIRECTIONS FOR USE AND PESTS CONTROLLED."
- d. For both the container label and the booklet, revise item "2" of the Notes under the heading **General Information** to read "Do not use inside the home."
- e. For both the container label and the booklet, delete the proposed first sentence of the **Disposal** section, "If you have spray mixture left over, add water to the sprayer and spray the dilute material on the treated area." As indicated for your Diazinon Lawn and Garden WBC label, such instructions could result in over-tolerance applications to food crops. In the second sentence of this same section, revise "Don't" to "Do not", for consistency with the rest of the label.

THE REMAINDER OF THE COMMENTS PERTAIN TO THE BOOKLET LABEL:

- f. Under **How to Mix and Apply**, add step 4 as follows:  
Step #4: Flush sprayer with clean water after each use.
- g. In the *Precautions* under the heading **Lawn Pest Control**, you may want to revise "If waterfowl, i.e, ducks or geese," to read "If waterfowl (ducks or geese)" as you have done for your other products. Also, after "To control pests listed below, apply recommended rates." add "Repeat as necessary."
- h. In the directions for **Nuisance Pests Outside the Home**, you may want to show the rate as "2 fl. oz. in 1 gal. of water", as you have done on your Lawn & Garden WBC label.
- i. Under the heading **Insect Control on Ornamental Trees, Shrubs, and Flowers** add the following: "Spray when listed pests first appear. Repeat as necessary." The Agency assumes that the vertical column lines will extend up into the column headings and that a horizontal line will appear above the column headings (eg. above Trees and Shrubs, Insects, etc.) as on previous versions of this label.
- j. Consolidate the listing for all the insects under the heading **Trees and Shrubs**, as you have done for your Lawn & Garden WBC label. There appears to be no reason to have 3 subdivisions, considering that the directions are basically the same. When consolidating the pest listing,

please maintain alphabetical order and consolidate the Webworm listing to "Webworms (Cotoneaster, Fall, Juniper, and Mimosa)". Be sure to move up the note on Mimosa Webworms to the end of the Timing/Special Directions, i.e., after "Try to penetrate dense foliage with spray.". Also, correct "Pine Sowfly" to "Pine Sawfly".

- k. For Roses and Flowers, the Agency assumes that the vertical column lines will extend up into the column headings and that a horizontal line will appear above the column headings (eg. above Roses and Flowers, Insects, etc.) as on previous versions of this label. Likewise, the Agency assumes that the horizontal line above the fruit and vegetable column headings will appear as on previous versions of this label.
- l. In the Timing/Special Directions for the crops Almonds, Apricots, Cherries, Nectarines, Peaches, Plums & Prunes, and Walnuts, revise "orchard" to "home orchard".
- m. In the Timing/Special Directions for the crops Apricots, Caneberries, Cherries, Grapes, Nectarines, Peaches, Plums & Prunes, Strawberries, and Walnuts, add a comma between "applications per seasons" and "a minimum of". For the crop Walnuts, revise the current sentence to be consistent with the rest of the crop entries, i.e., to read "Do not make more than 3 applications per season, a minimum of 14 days apart.".
- n. In the Timing/Special Directions for the crop Blueberries, revise "field" to "blueberry patch"; for the crop Caneberries, revise "field" to "caneberry patch"; for the crop Grapes, revise "vineyard" to "home vineyard"; and for the crop Strawberries, revise "field" to "strawberry patch".
- o. The Agency assumes that the continuation of the vertical line and the horizontal line above the PHI column headings will appear as on previous versions of this label. Also, the table lists all the other melon varieties except Persian Melons in the Pre-Harvest Interval (PHI) table. If desired, you may add that crop name with a 3 day PHI.
- p. In the Timing/Special Directions for each vegetable crop that contains directions for foliar application, i.e., that has the pest grouping headed by Aphids (as well as Onion Thrips for the crop Onions), for consistency with the 500 sq. ft. rate for other vegetable crops on this label and for consistency with your Lawn & Garden WBC label, revise the Rate entries to read "1 teaspoon in 1 gal. of water to cover

500 sq. ft. of garden". Also, in the Timing Special Directions for all of these same crops, add a comma in the second sentence between "days" and "up to". Crops affected by these revisions include Beans, Broccoli, Cabbage, Carrots, Cauliflower, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Endive, Kale, Lettuce, Melons, Onions, Parsnips, Peas, Peppers, Potatoes, Radishes, Rutabagas, Spinach, Summer Squash, Winter Squash, Sweet Corn, Tomatoes, and Turnips.

- g. In the Timing/Special Directions for each vegetable crop that contains directions for control of Cutworms, Wireworms, Mole Crickets or Root Maggots, revise "Broadcast to the soil..." to read "Spray the soil evenly ...".
- 3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Container Label (25E)  
DRAFT  
CROP/ORNAMENTALS

Container Label  
D·z·n®

Lawn & Garden  
Insect  
Control.

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

For outdoor use on the home lawn  
and the home garden only.

Spray concentrate. Contains  
diazinon insecticide.

Protects

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

Controls

- Ants, Aphids
- Chinch Bugs
- Cutworms<sup>1</sup>
- Fire Ants<sup>1</sup>
- Flea Beetles
- Grubs, Mites
- Sod Webworms
- and many others

<sup>1</sup>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 Ingredient:

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

Inert Ingredients\*: ..... 75.0%

Total: ..... 100.0%

\*Contains aromatic petroleum distillates.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See side panel for additional  
precautionary statements.

One Pint or One Quart  
Net Contents

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

APR 30 1996

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

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not use inside the home. Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. Do not allow children or pets to go onto a treated area until the treated area, such as grass or soil, has dried. 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. Get medical attention.

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

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 aromatic petroleum distillates 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

habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

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.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

---

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

Notes: (1) USE CONTENTS WITHIN 6 MONTHS AFTER OPENING. SEE "STORAGE AND DISPOSAL" DIRECTIONS. (2) Do not use in the home. (3) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since plant injury may occur. (4) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (5) Do not apply to food crops grown in greenhouses.

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

- 1 day - Tomatoes
- 3 days - Melons, Winter Squash
- 5 days - Peppers, Strawberries
- 7 days - Beans, Blackberries, Blueberries, Boysenberries, Broccoli, Cauliflower, Cucumbers, Dewberries, Loganberries, Peas, Raspberries, Sweet Corn, Summer Squash
- 10 days - Chinese Broccoli, Chinese Cabbage, Collards, Kale
- 14 days - Carrots, Endive (Escarole), Lettuce, Onions (Bulb and Green), Parsnips, Radishes, Rutabagas, Spinach, Turnips
- 21 days - Apricots, Cabbage, Cherries, Nectarines, Peaches, Plums, Prunes
- 28 days - Grapes
- 35 days - Potatoes (Irish)
- 45 days - Walnuts
- \* - Almonds (one dormant spray only)

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.



\*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, Spider Mites
Broccoli, Chinese Broccoli, Cabbage, Chinese Cabbage Cauliflower, Collards, Kale	Aphids, Flea Beetles, Dipterous Leafminers, Diamond-Back Moths, Imported Cabbageworms
Endive (Escarole) Lettuce, Spinach	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Spider Mites

Peppers, Tomatoes	Aphids, Colorado Potato Beetles, Fall Armyworms (Tomatoes), Flea Beetles, Leafhoppers, Southern Armyworms (Tomatoes), Vinegar Flies - <u>Drosophila</u> spp. (Tomatoes)
----------------------	---

Onions (Bulb and Green)	Onion Thrips
-------------------------	--------------

Radishes, Rutabagas, Turnips, Carrots, Parsnips, Potatoes	Aphids, Flea Beetles, Leafhoppers, Dipterous Leafminers, Colorado Potato Beetles (Potatoes), Southern Armyworms (Potatoes)
--	--

Sweet Corn	Aphids, Flea Beetles, Grasshoppers, Spider Mites
------------	--

Melons, Squash (Summer, Winter)	Aphids, Thrips, Spider Mites
------------------------------------	------------------------------

Vegetables: Preplant Soil Application

Beans, Peas (except dried varieties)	Cutworms, Mole Crickets, Wireworms (snap beans)
--------------------------------------	---

Beets, Red (Table)	Cutworms, Mole Crickets
--------------------	-------------------------

Cabbage	Cutworms, Root Maggots, Wireworms
---------	-----------------------------------

Carrots, Sweet Corn	Cutworms, Mole Crickets, Wireworms
---------------------	------------------------------------

Lettuce, Tomatoes	Cutworms, Wireworms
-------------------	---------------------

Radishes, Rutabagas, Turnips	Cutworms
------------------------------------	----------

Fruits & Nuts

Almonds Scale Crawlers

Walnuts Aphids, Scale Crawlers, Mites and others\*

(California only - both crops)

Apricots, Peaches, Nectarines Aphids, Apricot Mealybugs (Apricots), Spider Mites, Scale Crawlers

Blueberries Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Two-Spotted Spider Mites

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

Plums, Prunes Aphids, Spider Mites

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

(California, Oregon, Washington only - all crops)

Strawberries Aphids, Two-Spotted Spider Mites, Strawberry Leafrollers

Grapes Aphids, Grape Berry Moths, Grape Leafrollers, Leafhoppers

Roses & Flowers:

<p>Azalea, Camellia, Chrysanthemum, Carnation, Gladioli, Lilac, Lillies, Marigolds, Pansies, Petunias, Rhododendron, Roses</p>	<p>Aphids, Flea Beetles, Dipterous Leafminers, Leafhoppers, Mealybugs, Two-spotted Spider Mites, Thrips, Whiteflies and others*</p>
--	---

Ornamental Trees & Shrubs

<p>Arborvitae, Azalea, Birch, Boxwood, Camellia, Crab Apple, Dogwood, Douglas Fir, Elm, Euonymus, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellowwood, Yew</p>	<p>Aphids, Mites, Scale Crawlers, Whiteflies, Tent Caterpillars and others*</p>
---	---

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

If you have spray mixture left over, add water to the sprayer and spray the dilute material <sup>on</sup> to the treated area. Don't pour the concentrate, the spray mixture, or the rinse water down the drain or sewer. Do not reuse empty container. Triple rinse the empty container, pour the rinse water into the sprayer and spray the treated area. Securely wrap empty container 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.

D·z·n® trademark of Ciba-Geigy Corporation

©1995 Ciba-Geigy Corporation

Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, North Carolina 27419

CGA A1L13 R17 (1 quart)  
CGA A1L1 R19 (1 pint)  
Label goes with booklet CGA A1L9L

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)  
 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 April 12, 1990 per  
EPA letter of 1/26/90

Revised Oct. 10, 1990 per  
EPA letter of 9/14/90.

Revised 3/19/91 per EPA  
letter of 10/26/90.

Revised 4/25/91 per EPA  
letter of 4/10/91.

Revised 5/31/91 - changed  
signal word and precaution-  
ary statements.

Revised 8/9/91 per EPA let-  
ter of 8/5/91 minor correc-  
tions -

CGA A1L3R16T 101

CGA A1L1R18V 101

Revised 2/25/92 per EPA  
letter of 2/14/92 -

minor revisions

CGA A1L3R16T 022

CGA A1L1R18V 022

Revised 5/11/92 - deleted  
celery, changed PHI's re:  
overtolerance

Revised 5/19/92 per EPA  
letter of 5/15/92

A1L1R 19V 052 1 pt.

A1L13R 17T 052 1 qt.

Revised 6/23/93 - logo  
change

Revised 5/19/95 - added ru-  
tabagas, changed © date,  
added 15 ornamentals, added  
blueberries, revised dis-  
posal instructions

[GANNONC.LABELD] - DZNLGP-A - 5/19/95

DRAFT (25E)  
BOOKLET (Crop, Ornamentals)

(For use with 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.

For outdoor use on the home lawn and the home garden only.

Spray concentrate. Contains diazinon insecticide.

Protects

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

Controls

- Ants, Aphids
- Chinch Bugs
- Cutworms
- Fire Ants<sup>1</sup>
- Flea Beetles
- Grubs, Mites
- Sod Webworms
- and many others

<sup>1</sup>Aids in control.

Active Ingredient:

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

\*Contains aromatic petroleum distillates.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See end of booklet for additional precautionary statements.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

APR 30 1996

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.



DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

General Information

D·z·n Lawn and Garden Insect Control 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. Contains diazinon insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. D·z·n works fast and 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 in the home. (3) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since injury may occur. (4) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (5) Do not apply to food crops grown in greenhouses.

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.

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 indicated in the rate chart.

Step #3: Spray as directed in rate chart. Thorough coverage is important.

See chart for complete list of use sites, crops, and insects controlled. Use the rate given in the chart for the type of insect you want to control on the site or crop you are spraying.

---

Measurement Conversions

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

6 fl. oz. = 3/4 cup

1 1/2 tablespoons in 3 gals. of water = 1 1/2 teaspoons in 1 gal. of water

2 tablespoons in 3 gals. of water = 2 teaspoons in 1 gal. of water

---

Lawn Pest Control

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 and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs.

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

To control pests listed below, apply recommended rates.

Pests	Rate		Remarks
	D·z·n	Water	
Lawn Chinch Bugs	1 1/2 table- 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.  In the North, if Chinch Bugs are the only problem, a lower rate of application can be used: 3 tea- spoons in 3 gals. of water covers 125 sq. ft. or 4 fl. ozs. in 24 gals. of water per 1,000 sq. ft.

Pests	Rate		Remarks
	D·z·n	Water	
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Spring-tails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs)	1 1/2 table- 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.  For ants and digger wasps, spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk, when wasps are not active.  Billbug control: Apply when activity is first observed or when chewed or brown grass is present indicating damage from the insect.  For frit flies, mow grass and water thoroughly before treatment, but delay application until grass is dry.
Brown Dog Ticks, Chiggers, Fleas	1 1/2 table- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.           24 gals.	Note: Do not apply this product to animals.  For brown dog ticks, spray grass and under shrubbery, particularly near house....

Pests	Rate		Remarks
	D·z·n	Water	
Hyperodes Weevil	1 1/2 table- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Treat problem areas in mid- April and again in mid-May. Water grass thor- oughly after application.
Millipedes	1 1/2 table- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet grass a few hours before applying.
Rhodesgrass Scales	1 1/2 table- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Apply when crawl- ers first emerge.
White Grubs of Japanese Beetle, European Chafer, Southern Chafer	1 1/2 table- spoons per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Apply any time between late July and early October. Water grass thoroughly after applica- tion.

Nuisance Pests Outside the Home

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)

Mix 6 fl. ozs. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, 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 soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary.

Do not treat animals with this product. Do not treat plants (other than tree trunks) at this nuisance pest rate.

Fire Ants

To aid in the control of fire ants in home lawns and other outdoor home recreation 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.

Insect Control on Ornamental Trees, Shrubs and Flowers

Trees and Shrubs	Insects	Rate per 3 gals. of water	Timing/Special Directions
Arborvitae, Azalea, Birch, Boxwood, Camellia, Crab Apple, Dogwood, Douglas Fir, Elm, Euonymus, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Willow, Yellow- wood, Yew	Aphids, Bagworms, European Pine Shoot Moths, Holly Bud Moths, Dipterous Leaf- miners (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak), Leafhop- pers, Mealybugs, Mites (Clover, Cyclamen, Euro- pean Red, Privet, Two-spotted Spider), Obscure Root Weevils, Omnivorous Leaf-tiers, Scale Crawlers (Cottoncushion, Euonymus, Lecanium, Pine Needle, Pit, San Jose, Soft)	2 table- spoons	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to pene- trate dense foliage with spray
	Webworms (Juni- per, Mimosa), Whiteflies	2 table- spoons	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 inter- vals.

Insect Control on Ornamental Trees, Shrubs and Flowers (Continued)

<u>Trees and 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, Ornamental Plum, Poplar, Rhododendron, Spruce, Willow (Continued)	Apple and Thorn Skeletonizers, European Pine Sowfly, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars, Webworms (Cotoneaster, Fall)	2 table- spoons	Apply as a thorough foliar spray.

<u>Roses and Flowers</u>	<u>Insects</u>	<u>Rate per 3 gals. of water</u>	<u>Timing/Special Directions</u>
Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Lillies, Mari- golds, Pansies, Petunias, Rhodo- dendron, Roses	Aphids, Euonymus Scale Crawlers, Flea Beetles, Dipterous Leafminers, Leafhoppers, Mealybugs, Mites (Carnation Bud, Carnation Shoot, Cyclamen, European Red, Two-spotted Spider), Thrips, Whiteflies	2 table- spoons	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.



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	--**
Apricots	21
Blackberries	7
Blueberries	7
Boysenberries	7
Cherries	21
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Plums	21
Prunes	21
Raspberries	7
Strawberries	5
Walnuts	45

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

\*\*Dormant spray only.

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

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatoria Scale	2 table- spoons in 3 gals. of water	Apply only as a dormant spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard.  This product may be used on almonds only in California. Do not use this product on almonds grown in other states.
Apricots	Aphids, Apricot Mealybugs, Mites (Brown, Two-spotted Spider), Scale Crawlers (Olive, San Jose)	4 tea- spoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 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 21 days of harvest.
Blueberries	Cranberry fruitworms, Cherry fruitworms, Blueberry maggots, Aphids, Thrips, Two-spotted spider mites	4 tsp. in 2 gals. of water	Apply as a full cover spray. Allow a minimum of 14 days between appli- cations. Do not apply more than 4 gals. per 500 sq. ft. of field. Do not make more than 2 applica- tions per season.  Allow a minimum of 7 days between the last applica- tion and harvest.
Caneberries (CA, OR, WA only): Blackberries, Boysenber- ries, Dewberries, Loganberries, Raspberries	Aphids, Leaf- hoppers, Raspberry Fruitworms, Two-spotted Spider Mites, Thrips	2 table- spoons in 3 gals. of water	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 applica- tions per season a mini- mum of 14 days apart. Do not apply within 7 days of harvest.  This product may be used on caneberries only in California, Oregon and Washington. Do not use this product on caneber- ries grown in other states.

Crop	Pest	Rate	Timing/Special Directions
Cherries	Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruittree Leaf-rollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	4 tea-spoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 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 21 days of harvest
Grapes	Aphids, Leaf-hoppers, Grape Berry Moths, Grape Leaf-Folders	4 1/2 teaspoons 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 28 days of harvest.
Nectarines	Aphids, Mites (Brown, Two-spotted Spider), Scale Crawlers (Olive, San Jose)	4 tea-spoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 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 21 days of harvest

Crop	Pest	Rate	Timing/Special Directions
Peaches	Aphids, Mites (Brown, Two-spotted Spider), Scale Crawlers (Olive, San Jose)	4 tea- spoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 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 21 days of harvest.
Plums and Prunes	Aphids (Leafcurl Plum, Mealy Plum, Thistle), Mites (Brown, European Red)	4 tea- spoons in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 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 21 days of harvest.
Strawberries	Aphids, Two-spotted Spider Mites, Strawberry Leafrollers	2 table- 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 applica- tions per season a mini- mum of 7 days apart. Do not apply within 5 days of harvest.

Crop	Pest	Rate	Timing/Special Directions
Walnuts (CA only)	Aphids, Scale Crawlers (Walnut, Italian Pear, Frosted), Spider Mites, Twig Borers	2 table- 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 ap- plications per season 14 days apart. Do not apply after husks open or split. Do not apply within 45 days of har- vest.  This product may be used on walnuts only in Cali- fornia. Do not use this product on walnuts grown in other states.

Vegetables

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. Do not apply to food crops grown in greenhouses.

Pre-Harvest Intervals (PHI\*)  
for Foliar Applications

Crop	PHI* (Days)
Beans <sup>1</sup> (succulent varieties only: Lima, Pole & Snap)	7
Broccoli	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Onions (Bulb and Green)	14
Parsnips	14
Peas	7
Peppers	5
Potatoes (Irish)	35
Radishes	14
Rutabagas	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Tomatoes	1
Turnips (Roots & Tops)	14
Watermelons	3

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

<sup>1</sup>Do not use this product on dried pea or bean varieties such as pinto beans, dried limas, split peas, or dried black-eyed peas.

Vegetables

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

Crop	Pest	Rate	Timing/Special Directions
Beans, Lima, Pole and Snap (succulent varieties only)	Aphids, Cucumber beetles, Grass- hoppers, Leaf- hoppers, Mexican Bean Beetles, Spider Mites	2 table- 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)	6 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	2 table- 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)	6 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: (1) Do not apply this product to dried bean varieties such as pinto beans or dried limas. (2) To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.

Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
	Mole Crickets	2 table- 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.
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 7 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 21 days of harvest.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.



Crop	Pest	Rate	Timing/Special Directions
Cabbage (Continued)	Root Maggots	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.
Carrots	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 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 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
	Mole Crickets	2 table- 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.

Crop	Pest	Rate	Timing/Special Directions
Carrots (Continued)	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.
Cauliflower	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 7 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Chinese Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 10 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 10 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.

Crop	Pest	Rate	Timing/Special Directions
Collards	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 10 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Corn (see sweet corn)			
Cucumbers	Aphids, Thrips, Spider Mites	2 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 applications per season. Do not apply within 7 days of harvest.
Endive (Escarole)	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 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 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Kale	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 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 applications per season. Do not apply within 10 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.

Crop	Pest	Rate	Timing/Special Directions
Lettuce	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 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 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.
Melons (Canta- loupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Water- melons	Aphids, Thrips, Spider Mites	2 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 applications per season. Do not apply within 3 days of harvest.

Crop	Pest	Rate	Timing/Special Directions
Onions (Bulb and Green)	Onion Thrips	2 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 applications per season. Do not apply within 14 days of harvest.
Parsnips	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 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 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Peas (succulent only)	Aphids, Cucumber Beetles, Grass- hoppers, Leaf- hoppers, Mexican Bean Beetles, Spider Mites	2 table- 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. Allow at least 7 days between the last application and harvest.
	Cutworms (surface, subter- ranean)	6 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	2 table- 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.

Crop	Pest	Rate	Timing/Special Directions
Peas (succulent only) (Continued)	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.

NOTE: (1) Do not apply this product to dried pea varieties such as split peas or dried black-eyed peas. (2) To protect bees, do not apply foliage treatments if peas or weeds in the treatment area are in bloom.

Peppers	Aphids, Colorado Potato Beetles, Flea Beetles, Leaf- hoppers	2 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 applications per season. Do not apply within 5 days of harvest.
Potatoes	Aphids, Flea Beetles, Leaf- hoppers, Colorado Potato Beetles, Southern Armyworms, Dipterous Leafminers	2 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 applications per season. Do not apply within 35 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
Radishes	Aphids, Flea Beetles, Leaf- hoppers, Imported Cabbage- worms, Dipterous Leafminers	2 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 3 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.

Crop	Pest	Rate	Timing/Special Directions
Radishes (Cont'd)	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
Rutabagas	Aphids, Flea Beetles, Leaf- hoppers, Imported Cabbage- worms, Dipterous Leafminers	2 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 ap- plications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
Spinach	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 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 applications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.

Crop	Pest	Rate	Timing/Special Directions
Squash, Summer	Aphids, Thrips, Spider Mites	2 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 applications per season. Do not apply within 7 days of harvest.
Squash, Winter	Aphids, Thrips, Spider Mites	2 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 applications per season. Do not apply within 3 days of harvest.
Sweet Corn	Aphids, Thrips, Flea Beetles, Grass- hoppers, Spider Mites	2 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 applications per season. Corn may be picked 7 days following last application.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.



Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Cont'd)	Mole Crickets	2 table- 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 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.

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

Tomatoes	Aphids, Colorado Potato Beetles, Fall Army- worms, Flea Beetles, Leaf- hoppers, Southern Armyworms, Vinegar Flies (Drosophila spp.)	2 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 applications per season. Do not apply within 1 day of harvest.
----------	---	---	---

Crop	Pest	Rate	Timing/Special Directions
Tomatoes (Cont'd)	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.
	Wireworms	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 4-8 inches.
Turnips and Turnip Tops	Aphids, Flea Beetles, Leaf- hoppers, Imported Cabbage- worms, Dipterous Leafminers	2 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 ap- plications per season. Do not apply within 14 days of harvest.  <u>Note:</u> Resistant leafmin- ers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subter- ranean)	6 table- spoons per 500 sq. ft. in a minimum of 1 1/2 gals. of water	Broadcast to the soil just before planting. Immedi- ately work into soil 2-3 inches for surface cut- worms, 3-6 inches for sub- terranean cutworms.

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

If you have spray mixture left over, add water to the sprayer and spray the dilute material <sup>on</sup> to the treated area. Don't pour the concentrate, the spray mixture, or the rinse water down the drain or sewer. Do not reuse empty container. Triple rinse the empty container, pour the rinse water into the sprayer and spray the treated area. Securely wrap empty container 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

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not use inside the home. Avoid contamination of feed and foodstuffs. Do not use on household pets or humans. Do not allow children or pets to go onto a treated area until the treated area, such as grass or soil, has dried. 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. Get medical attention.

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

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 aromatic petroleum distillates 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 habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. For lawns, where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

Physical or Chemical Hazards

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

©1995 Ciba-Geigy Corporation

D·z·n® trademark of Ciba-Geigy Corporation

EPA Reg. No. 100-456

Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, North Carolina 27419

CGA A1L9 (DRAFT)

(booklet goes with label CGA A1L1 R18 - 1 pt. container and  
A1L3 R16 - 1 qt. container)

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,  
deleted unsupported crops  
under May 1, 1987 EPA Data  
Call-In.

---

Revised November 4, 1988  
Changed chem. back to  
orig., all corn specified  
as "sweet" corn per EPA.  
Reduced lawn rates to 4  
lbs. ai max

---

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  
Readded 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.

Revised April 12, 1990  
Per EPA letter of  
1/26/90.

Accepted May 14, 1990  
CGA A1L9J050

Revised Oct. 10, 1990 per EPA  
letter of 9/4/90  
requested additional  
changes in FPL submitted  
8/28/90

Revised Nov. 12, 1990 per EPA's  
letter of 10/26/90

Revised March 19, 1991 per EPA  
letter of 12/3/90  
CGA A1L9J 120

Revised Apr. 25, 1991 per EPA  
letter of 4/10/91  
CGA A1L9J 041

Revised May 31, 1991  
changed signal word and  
precautionary statements

Revised June 26, 1991  
editorial changes per EPA  
letter of 6/21/91

Revised August 9, 1991 per EPA  
letter of 8/5/91 - minor  
corrections -  
CGA A1L9K 081

Revised October 21, 1991 per EPA  
Acceptance letter of  
8/21/91 minor corrections  
CGA A1L9K 101

Revised February 25, 1992 per EPA  
letter of 2/14/92 - minor  
changes CGA A1L9K 022

Revised 5/11/92 deleted celery,  
changed PHI's over toler-  
ance

Revised 5/19/92 per EPA accep-  
tance letter of 5/15/92  
CGA A1L9K 052

Revised 7/20/93 - logo change

Revised 5/17/95 - added rutabagas,  
blueberries, © date  
change, added 15 ornamen-  
tals, revised disposal  
statements

[GANNONC.LABELD] DZNLGI-A - 5/22/95