



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (H7505C)  
 401 "M" St., S.W.  
 Washington, D.C. 20460

EPA Reg. Number:

100-770

Date of Issuance:

SEP 14 1995

Term of Issuance:

Conditional

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name of Pesticide Product:

D.z.n® Diazinon Lawn  
& Garden WBC

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Reg. No. 100-770.
  - b. Delete the following proposed front panel bullet statements: "Long Residual Activity", "No Petroleum Solvents", "Powerful", "Nonflammable", "Won't harm crops", "Excellent crop safety", "Proven Technology", "Proven Performer", "Registered on over 70 crops", and "Controls over 50 insect pests". For the claim "New Water-Based Formula", the term "New" may appear no longer than 6 months following product introduction.

Signature of Approving Official:

Date:

SEP 14 1995

- c. For both the container label and the booklet, in the **Statement of Practical Treatment** revise the last sentence of the IF SWALLOWED advice to read: Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.
- d. For both the container label and booklet, revise the last sentence if the IF IN EYES advice to read: Call a physician if irritation persists.
- e. For both the container label and the booklet, in the **Environmental Hazards** replace "Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark." with "Do not apply directly to water."
- f. For both the container label and the booklet, in the **Environmental Hazards**, you may want to revise "or if waterfowl, i.e, ducks or geese," to read "or if waterfowl (ducks or geese)" as you have done in the avian risk reduction precautions for your granular products.
- g. In the booklet, under the heading **General Information** show the correct product name, D.z.n Diazinon Lawn & Garden WBC.
- h. For both the container label and the booklet, under the heading **General Information** add as the second sentence "To avoid having spray mixture left over, mix only the amount needed."
- i. For both the container label and the booklet, revise the first Note under the heading **General Information** to read "Do not use inside the home".
- j. On both the container label and the booklet, delete the proposed first sentence from the **Disposal** directions, "If you have spray mixture left over, add water to the sprayer and spray the dilute material to the treated area.". Such directions could result in over application to food crops.
- k. Is there a reason you have chosen to delete "Flush sprayer with clean water after each use." from the **How to Mix and Apply** directions?
- l. In the Precautions under the heading **Lawn Pest Control**, you may want to revise "or if waterfowl, i.e, ducks or

geese," to read "or if waterfowl (ducks or geese)," as you have done in the avian risk reduction precautions for your granular products.

- m. Add as directions directly under the heading **Insect Control on Ornamental Trees, Shrubs and Flowers**: "Spray when listed pests first appear. Repeat as necessary.". Alternatively, you could add those two statements to each Timing/Special Directions block under the **Trees and Shrubs** and **Roses and Flowers** headings.
- n. Consolidate the listing for all the insects under the heading **Trees and Shrubs**. 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".
- o. In the Timing/Special Directions for the crops Almonds, Apricots, Cherries, Nectarines, Peaches, Plums & Prunes, and Walnuts, revise "orchard" to "home orchard".
- p. 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".
- q. You list all the other melon varieties except Persian Melons in the Pre-Harvest Interval (PHI) table. Is this omission intentional? If not, add that crop name with a 3 day PHI.
- r. 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 ...".
- s. Your working copy of revisions included "Store at temperatures above 32°F." in the STORAGE directions. This text is not included on the typewritten revision. Is this omission intentional?

- t. Your cover letter dated May 26, 1995 indicated that you added SHAKE WELL BEFORE USING, since "this is necessary for oil emulsions in water formations". The label includes this in the STORAGE text. As we discussed, this same statement, SHAKE WELL BEFORE USING, should also appear in item 2 of the How to Mix and Apply directions, as the next sentence after Use clean sprayer.
- u. Be sure to meet type size requirements for elements of the label with minimum type size requirements.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.
4. You have verbally indicated that a one-year storage stability test has been completed for this product and that the final report on this study is in preparation. Within three months, submit the results of a one-year storage stability study for this product in the container to be marketed under normal storage conditions. Storage stability studies for diazinon products are still required because of the regulatory history for this active ingredient. The Agency understands that you will be continuing evaluation of storage stability beyond one year as part of your quality control program.

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.

Enclosures

Revision of Draft  
Crop/Ornamentals  
Container Label

D·z·n® diazinon

Lawn & Garden WBC  
Water Based Concentrate

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.

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 .....	22.4%
<u>Inert Ingredients*:</u>	<u>77.6%</u>
Total:	100.0%

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

SEP 14 1995

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

100-770

1004 R

(Front Panel Bullet Statements)

Fast acting knockdown  
Long Residual Activity  
Concentrated  
No Petroleum Solvents  
Broad Spectrum Pest Control  
Powerful  
Less Smell  
Reduced Odor Formulation  
Easy to Mix  
Easy to Apply  
Handles Easily  
Dilute and Spray  
Nonflammable  
Excellent Performance  
Won't harm crops  
Excellent crop safety  
Proven Technology  
Proven Performer  
Controls soil, foliar, and sucking pests  
Convenient water-based formula  
Concentrated = Better Value  
Registered on over 70 crops  
Controls over 50 insect pests  
Protects Home Lawns and Home Vegetable Gardens  
Controls pests in the home lawn and home garden  
Controls a wide spectrum of pests  
Soil and Foliar Insecticide with Broad Spectrum Control  
Spray on foliage or soil to control numerous pests  
Reliable control  
Covers up to \_\_\_\_\_ sq. ft. of lawn  
Fast acting  
Dependable Control  
Time Tested Insecticide  
Economical  
New Water-Based Formula  
Use on home lawns, ornamentals, vegetables and fruits

1/2/65

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. 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 or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth if person is unconscious.

If in eyes: Flush eyes with plenty of water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

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. If ingested, induce emesis or lavage stomach.

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

6.2.5

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.

---

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 diazinon Lawn & Garden Water Based Concentrate is a water-based 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.

Notes: (1) Do not use in the home. (2) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since plant injury may occur. (3) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties.



20/11/10

(4) 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, Summer Squash, Sweet Corn
- 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.

10. 1/12

\*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
------------------------------------	----------

---



15-247

Roses & Flowers:

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

---

Ornamental Trees & Shrubs

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

---

Storage and Disposal

Storage

Store in original container in an area inaccessible to children or pets. If product freezes, place container in a warm room (68°F or above) and allow to thaw. Shake well before using.

Disposal

If you have spray mixture left over, add water to the sprayer and spray the dilute material 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

11/04/95

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

EPA Reg. No. 100-

EPA Est.

May 17, 1995  
Corresponds to D.z.n.  
LGIC May 17, 1995  
label, added  
rutabagas, blue-  
berries, 15  
ornamentals

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

15215

Draft  
BOOKLET  
(Revision of Pending Label)

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

D·z·n® diazinon Lawn & Garden WBC  
Water Based Concentrate

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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

SEP 14 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-770

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 .....	22.4%
<u>Inert Ingredients*:</u>	<u>77.6%</u>
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See end of booklet for additional  
precautionary statements.

110-777

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.



11/24/45

---

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 diazinon Lawn & Garden WBC is a water-based 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 diazinon Lawn & Garden WBC works fast and application should be repeated only as directed to maintain control.

Notes: (1) Do not use in the home. (2) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since injury may occur. (3) Use this product on succulent peas and beans only. Do not use on dried pea or bean varieties. (4) 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.

182/15

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. Application should be repeated only as directed to maintain control.

Step #2: Use clean sprayer. Carefully measure and mix the amount of D·z·n diazinon 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

---

192445

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.

20/4/57

Pests	Rate		Remarks
	D·z·n	Water	
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Spring-tails (Collem-bola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leaf-hoppers, 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.

2 of 45

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.

23/4/40

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.

*D. Fisher*

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 Leaftiers, Scale Crawlers (Cottonycushion, 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.

*Handwritten signature*

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 Sawfly, Hemlock Chermes, Oak Loopers, Oblique- banded 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, Marigolds, Pansies, Petunias, Rhododendron, 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.



*Handwritten mark*

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.

5076

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.

Crop	Pest	Rate	Timing/Special Directions
<p>Caneberries (CA, OR, WA only): Blackberries, Boysenber- ries, Dewberries, Loganberries, Raspberries</p>	<p>Aphids, Leaf- hoppers, Raspberry Fruitworms, Two-spotted Spider Mites, Thrips</p>	<p>2 table- spoons in 3 gals. of water</p>	<p>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.</p> <p>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.</p>
<p>Cherries</p>	<p>Black Cherry Aphids, Cherry Fruitflies, Cherry Fruitworms (Maggots), Fruittree Leaf- rollers, Mites (Cherry Rust), Scale Crawlers (San Jose)</p>	<p>4 tea- spoons in 2 gals. of water</p>	<p>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</p>
<p>Grapes</p>	<p>Aphids, Leaf- hoppers, Grape Berry Moths, Grape Leaf- Folders</p>	<p>4 1/2 teaspoons in 3 gals. of water</p>	<p>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.</p>

27/2/71

Crop	Pest	Rate	Timing/Special Directions
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
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.

2/2/95

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.

8-27-75

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, subterranean)	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.

ED 1/10

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	Eroadcast 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.  <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.



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.

*Handwritten mark*

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.

25/1/18

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, Leafhoppers, 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.
	Cutworms (surface, subterranean)	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.
	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. Immediately work into soil 4-8 inches.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons	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.

3-10-45

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.

29/1/15

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.

1/10/45

Crop	Pest	Rate	Timing/Special Directions
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 leafminers will not be controlled by diazinon or similar type insecticides.
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.



4/10/45

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (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.
	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 ( <i>Drosophila</i> 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.
----------	---	---	---

4/20/45

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.

11-10-11

Storage and Disposal

Storage

Store in original container in an area inaccessible to children and pets. If product freezes, place container in a warm room (68°F or above) and allow to thaw. Shake well before using.

Disposal

If you have spray mixture left over, add water to the sprayer and spray the dilute material 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. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. 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 or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth if person is unconscious.

Continued

1/12/15

If in eyes: Flush eyes with plenty of water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

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. If ingested, induce emesis or lavage stomach.

#### 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.

1/5/95

©1995 Ciba-Geigy Corporation

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

EPA Reg. No. 100-

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

CGA

Revised

May 17, 1995 -  
Corresponds to  
D.z.n LGIC

May 17, 1995 label,  
added rutabagas,  
blueberries, 15  
ornamentals,  
revised storage  
and disposal

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