

1/25

APR 28 1989

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

Dear Ms. Bussey:

SUBJECT: Amendments: Revisions per Agency
letter dated November 29, 1988;
Revise application rates to agree
with DCI residue testing program;
Add Chinese cabbage, Chinese radish, casabas,
crenshaws, honedew, Persian melons, and melon hybrids
Add pests for beans, cabbage, carrots, peas, potatoes,
radish, sweet potatoes, tomatoes, and turnip
Delete crop - sweet corn
Delete pests - Carrot rust flies on carrots,
Vinegar flies (Drosophila) on tomatoes
D.z.n 6000 Lawn & Garden Insect Control
EPA Reg. No. 100-528
Your submission dated March 9, 1989

The label referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the new crop additions are supported by the required amendment application and associated Offer to Pay form (as you agreed in our recent telephone conversation) and the following revisions are made prior to release for shipment under the amended label (it is assumed that all the text included in this submission but which was crossed out will be deleted):

- 1) The current submission no longer bears directions for use on sweet corn, but it still carries the front panel claim "corn borers". Was the deletion of sweet corn intentional? If so, then delete the corn borer claim. If not, then the claim may remain, and appropriate directions for use for the previously claimed pests may be re-added (presumably at adjusted rates). It is noted that sweet corn was the only vegetable crop with foliar applications. If these uses are retained, then the correct preharvest interval and livestock feeding limitation should be indicated.

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- 2) The current submission no longer bears directions for use to control carrot rust flies on carrots, but it still carries the front panel claim for carrot rust flies? Was the deletion of carrot rust flies intentional? If so, then delete the claim. If not, then the claim may remain, and appropriate directions for use for the previously claimed pest may be re-added (presumably at an adjusted rate).
- 3) The current submission no longer bears directions for use to vinegar flies (Drosophila spp.) on tomatoes, but it still carries the front panel claim for vinegar flies? Was the deletion of vinegar flies intentional? If so, then delete the claim. If not, then the claim may remain, and appropriate directions for use for the previously claimed pest may be re-added (presumably at an adjusted rate).
- 4) The revised label now bears a table that indicates preharvest intervals (PHI) and maximum number of applications per season. Such a table and the information contained is not appropriate to the type of product, a granular formulation intended for a single preplant or transplant soil application (except for the foliar application in corn whorls, which has been deleted from the current submission). The table should be deleted, however, the "Notes" should be retained at some location in the vegetable directions (you may choose to relocate the each limitation with the specific directions for each of the crops affected). Even if sweet corn directions for foliar application are re-added, the required PHI and livestock feeding limitation could appear in those specific directions for use.
- 5) For ease of consumer use, you may want to reorganize the specific directions for use on vegetable crops into alphabetical order, rather than (presumably) crop type grouping .
- 6) It is noted that you have revised the application rates for the vegetable crops "to reflect the residue chemistry program which is in progress for the Data Call In.". While there appears to be a trend toward lowering the rates (e.g., root maggots 2-5 1/2 ozs., down from 7-11 ozs.; cutworms 2-7 ozs., down from 7-14 ozs.; mole crickets 1 oz., down from 4 ozs.; and wireworms 5 1/2-7 ozs., down from 7-14 ozs.), the rate for onion maggots went up (2-7 ozs., up from 4 ozs.). Why? Your cover letter indicates that "These directions for use do not in any case include higher rates than currently registered.". Even if the rate were revised to appear as 2-4 ozs., how is the user to know when the higher of the two rates is necessary? Also, while the above reduced rates generally appear throughout many of the crops, there are some inconsistencies. Specifically, the crops carrots, radish, and turnip indicate just one rate (7 ozs.) for all pests. Please explain this inconsistency, or revise the directions accordingly.

- 7) The use directions for the crop "radish" are confusing. In addition to the single rate of application for many pests (indicated in item "6" above), there are conflicting sets of directions for the pest "mole crickets". One says 7 ozs. per 500 sq. ft. applied just before planting, with incorporation to 4-6 inches, while the next page recommends 1 oz. per 500 sq. ft. applied 1-2 days before planting, with incorporation to 1-2 inches. Which is correct? Also, for the pest "root maggots", the rate is given as 1-2 ozs. per 500 sq. feet (2-5 1/2 ozs. is recommended for control of this same pest on other crops), and 2 1/2-2 4/5 ozs. per 1000 linear feet of row (a modified rate, but given in the same terms (i.e., linear feet) as on the previous label). Assuming that radish seed furrows are not one foot wide, what is the correct rate?
- 8) The specific directions for use for a number of crops start with the recommendation "Apply when insects are present or expected." or "Apply when insects are present.". Such instructions could be construed by the purchaser as recommending use in addition to the single preplant or at-transplant application. To avoid such possible confusion, please delete "Apply when insects are present or expected." or "Apply when insects are present." as the introductory sentence from the specific crop directions for use wherever they appears (e.g. broccoli, cabbage, cauliflower, Chinese cabbage, Chinese mustard, collards, tomatoes, and peppers). Alternatively, you may choose to revise the sentence order to the acceptable directions that appear for the crop "mustard", i.e., "Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected."
- 9) It is noted that you have added the crops Chinese cabbage and Chinese mustard, to be related to data being developed for cabbage, and the group claim "melons", and specifying casabas, crenshaws, honedew, Persian melons, and melon hybrids, in addition to the previously claimed cantaloupes, muskmelons, and watermelons. As indicated above, crop additions should be treated as amendments. The Agency understands that you are/will be developing your own data to support these uses. Please note that "Chinese cabbage" includes both tightheaded varieties, such as "Napa" (which would be covered by residue data on cabbage), and loose-headed varieties such as "Bok choy" (which are not covered by residue data on cabbage, but could be covered by the Brassica leafy vegetable group tolerance residue data data). Your current submission only specifies "Bok Choy" under "Chinese Cabbage". Is it your intention to specify the loose-headed varieties only?
- 10) Based upon your indicated data support, the specific directions for use on beans and peas should include the limitation "succulent only" along with the crop name. Also, it is noted that you have added the pest "lesser cornstalk borer" to the list of pests controlled on beans. The Agency assumes that you have data in your possession to support this additional pest claim.

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- 11) It is noted that you have added directions for use against the pest "Garden symphylans (Centipedes)" to a number of crops (beans, cabbage, carrots, peas, radish, tomatoes and turnip). The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate.
- 12) In the directions for use on the crop "onions", specify "organophosphate resistant onion maggots" rather than just "resistant onion maggots".
- 13) It is noted that you have added the pest "lesser cornstalk borer" to the list of pests controlled on the crop "beans". The Agency assumes that you have data in your possession to support this additional pest claim at the label rate.
- 14) It is noted that you have added the pests "Garden symphylans (Centipedes)", "cutworms", "mole crickets", "root maggots", and "wireworms" to the list of pests controlled on the crop "carrots". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate (or at a revised rate, see item "6" above regarding the application rate for this crop).
- 15) It is noted that you have added the pest "wireworms" to the list of pests controlled on the crop "potatoes". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate. The Agency recommends adding the limitation against use on commercially grown potatoes which will be hand-harvested to the specific directions for use on this crop.
- 16) It is noted that you have added the pests "Garden symphylans (Centipedes)", "cutworms", and "wireworms" to the list of pests controlled on the crop "radish". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate (or at a revised rate, see item "6" above regarding the application rate for this crop).
- 17) It is noted that you have added the pests "flea beetles", "white grubs", and "southern corn rootworm" to the list of pests controlled on the crop "sweet potatoes". The Agency assumes that you have data in your possession to support these additional pest claims at the label rate.
- 18) It is noted that you have added the pests "Garden symphylans (Centipedes)", "cutworms", and "wireworms" to the list of pests controlled on "turnip". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate (or at a revised rate, see item "6" above regarding the application rate for this crop).
- 19) Item "6" of your cover letter dated March 9, 1989, indicated "the sentence, "Remove pets from area, and cover fish bowls before spraying." has been added as the next to the last sentence of the "Application" section". No such addition is present or appropriate.

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label and the required amendment forms prior to release for shipment under the amended label. The Agency understands that it is Ciba Geigy's intent to standardize the directions for use for your diazinon ag-products and the homeowner garden use products before actual printing or release to customers as example labeling.

NOTE: Acceptance of the subject product label at this time does not relieve you of the responsibility to submit revised labeling, as required by the December 1968 Diazinon Registration Standard within the timeframe specified in that document.

Sincerely yours,

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

D·z·n[®] 6000

TREATS UP TO 5000 SQUARE FEET

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lawn & garden
insect
control

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 20 1989

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

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

100-528

D·z·n kills

Ants
Armyworms
Bermudagrass mites
Billbugs
Brown dog ticks
Chiggers
Chinch bugs
Crickets
Cutworms

Earwigs
Fire ants*
Fleas
Onion maggots
Root maggots
Sod webworms
White grubs of:
 . Japanese beetle
 . European chafer
 . Southern chafer
Wireworms
and others

*Aids in control.

See Directions for Use.

Ready-to-use Granules. Contains
5% diazinon insecticide.

Active Ingredient:

| | |
|---|------|
| Diazinon: O,O-diethyl O-(2-isopropyl-6- | |
| methyl-4-pyrimidin-yl) phosphorothioate | 5% |
| Inert Ingredients: | 95% |
| Total: | 100% |

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements
on back of bag.

EPA Reg. No. 100-528

EPA Est.

Ten Pounds
Net Weight

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In Lawns
D·z·n kills:

- Ants
- Armyworms
- Bermudagrass mites
- Billbugs
- Brown dog ticks
- Chiggers
- Chinch bugs
- Clover mites
- Crickets
- Cutworms
- Digger wasps
- Earwigs
- Fleas
- Fire ants*
- Lawn moths
- Leafhoppers
- Millipedes
- Sod webworms
- Sowbugs
- Springtails
- White grubs of:
 - . European chafer
 - . Japanese beetle
 - . Southern chafer

In Gardens
D·z·n kills:

- Armyworms
- Carrot rust flies
- Corn borers
- Cutworms
- Mole crickets
- Onion maggots
- Root maggots
- Rootworms
- Vinegar flies
- Wireworms

*Aids in control.

Directions for Use

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

Overall Lawn Application:

D·z·n 5000 controls the following lawn insects on both grass and dichondra lawns:

- Ants . Armyworms . Bermudagrass mites . Brown dog ticks .
 Chiggers . Chinch bugs . Clover mites . Crickets . Cutworms .
 Earwigs . Fleas . Lawn moths (sod webworms) . Leafhoppers .
 Millipedes . Sowbugs . Springtails (Collembola)

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping treated areas. If waterfowl, i.e., ducks, geese, can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however, stop watering before puddling occurs.

7/16/20

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Apply D·z·n 6000 with a fertilizer spreader. See spreader setting chart below. Apply when grass is dry. Repeat as necessary.

For application with other types of equipment, apply at the rate of 2 lbs. per 1000 sq. ft. (an area 20' by 50') or 3.2 oz. per 100 sq. ft. (an area 10' by 10').

Billbugs; White grubs of Japanese beetle, European chafer, Southern chafer, Ataenius spretulus (dung beetle):

Apply 2 lbs. per 1000 sq. ft. of lawn. Water grass thoroughly after application. For billbug control, apply when activity is first observed or when chewed or brown grass indicates damage from these insects. Repeat as necessary. For grub control, except dung beetle, treat any time between late July and early October. For dung beetle grub control, apply in spring or early summer when damage is first noticed. Water grass thoroughly with 1/4-1/2 in. of water after application. Treat again in late summer or early fall if a second generation occurs.

Hyperodes weevils:

Apply 2 lbs. per 1000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

Spot Treatment

Ants: Apply 1 1/2 teaspoons of D·z·n 6000 over and around each ant hill.

Fire ants: To aid in the control of fire ants in lawns and other recreational areas, apply 1/2 cup over, and 2 ft. around, each fire ant mound. Immediately after application, water in thoroughly. A minimum of 1 gallon of water should be applied to each mound area. Reapply as necessary. Apply gently to avoid disturbing ants. Use of high pressure watering equipment 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.

Digger wasps: Apply 1 1/2 teaspoons of D·z·n 6000 in and around each nest opening. Apply at dusk when wasps are not active.

Band Treatment Around House Foundation:

The following pests are commonly found around or near foundations of houses as well as in lawns. Certain of these pests may enter houses.

- | | |
|-----------------|--------------------|
| Ants | Fleas |
| Brown dog ticks | Millipedes |
| Clover mites | Sowbugs (Pillbugs) |
| Crickets | Springtails |
| Earwigs | (Collembola) |

Apply a 5 foot band of D·z·n 6000 next to the house foundation. Distribute granules uniformly, using a rate of 3.2 oz. for each 100 sq. ft. of area (5' by 20') treated. Repeat as necessary.

Garden Insect Control:

D·z·n 6000 control certain garden insects on crops listed below. Apply just prior to planting and immediately mix thoroughly into the soil to the specified depth, except where applied in seed furrow.

Cutworms (surface and subterranean)

- | | | |
|-------------------|-----------------------------|-----------------------------|
| Broccoli | Kale | Snap Beans (succulent only) |
| Cabbage | Lettuce | Spinach |
| Cantaloupes | Lima Beans (succulent only) | Summer Squash |
| Cauliflower | Muskmelons | Swiss Chard |
| Celery | Parsley | Tomatoes |
| Collards | Peas (succulent only) | Watermelons |
| Cucumbers | Peppers | Winter Squash |
| Endive (Escarole) | Potatoes | |

Apply 7 to 14 oz. per 500 sq. ft. and mix into soil to a depth of 2-3 inches for surface cutworms and 3-6 inches for subterranean cutworms. For potatoes, mix into soil 4-6 inches deep.

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Mole Crickets

Broccoli
Cabbage
Cauliflower
Collards

Endive (Escarole)
Kale
Lettuce
Mustard

Peppers
Radishes
Strawberries
Tomatoes
Turnips

Apply 4 oz. per 500 sq. ft. and mix into soil to a depth of 1-2 inches.

Wireworms

Broccoli
Cabbage
Cantaloupes
Carrots
Cauliflower
Celery
Collards
Sweet Corn only
Cucumbers

Endive (Escarole)
Kale
Lettuce
Lima Beans (succulent only)
Muskmelons
Onions
Parsley
Peas (succulent only)
Peppers

Snap Beans (succulent only)
Spinach
Summer Squash
Sweet Potatoes
Swiss Chard
Tomatoes
Watermelons
Winter Squash

Apply 7 to 14 oz. per 500 sq. ft. and mix into soil to a depth of 4-8 inches.

Broccoli, Cabbage, Cauliflower

Root Maggots: Apply 7 to 11 oz. per 500 sq. ft. over entire seedbed before planting or transplanting and mix into soil to a depth of 3-4 inches.

Carrots

Carrot Rust Flies: Apply 7 oz. per 500 sq. ft. in seed furrow at planting time.

Onions

Onion Maggots: Apply 4 oz. per 500 sq. ft. in seed furrow at planting time.

Radishes

Root Maggots: Sprinkle lightly at the rate of 3-4 oz. per 500 linear feet of row in seed furrow at planting time.

Sweet Corn

Corn Rootworms: Apply 4-7 oz. per 500 sq. ft. in a band over the row at planting time.

Cutworms: Apply 7-11 oz. per 500 sq. ft. Mix into soil to a depth of 1-2 inches for surface cutworms and 3-6 inches for subterranean cutworms.

European Corn Borers: Apply 4-7 oz. per 500 sq. ft. over corn so granules fall into whorls when 75% of the plants show first-generation larvae feeding, and again 7 days later, if needed. Treat for second-generation when there is an average of 1 egg mass per plant.*

Fall Armyworms: Apply 4-7 oz. per 500 sq. ft. over corn so granules fall into whorls when larvae first appear, and again for control of second-generation armyworms, if necessary.*

Southwestern Corn Borers: Apply 4-7 oz. per 500 sq. ft. over corn so granules fall into whorls when second-generation larvae first appear. Repeat application one week later.*

*Note: Corn may be picked immediately following last application. Do not feed fodder to livestock for ten days following last application.

Wireworms: Apply 7-15 oz. per 500 sq. ft. in a broadcast application. Mix into soil to a depth of 4-8 inches.

Sweet Potatoes (North Carolina only)

Wireworms: Apply 11 oz. per 500 sq. ft. over the top of sweet potato plant foliage when roots begin to enlarge.

Tomatoes

Vinegar Flies (Drosophila spp.): Apply 4 oz. per 500 sq. ft. over top of plants when flies first appear. Repeat at 7-10 day intervals, or as required. Tomatoes may be picked the same day.

Turnips

Root Maggots: Apply 4 oz. per 500 sq. ft. in seed furrow at planting time.

NOTE: The spreader settings listed below are approximate. Accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust spreader setting if necessary, in order to assure correct rate of application.

Vegetables Crops - Insect Control
controls certain garden insects on crops listed
in the following tables

D·z·n diazinon 6000 should be applied uniformly as directed for each crop.

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

Do not use on succulent peas and beans

| CROP | *PHI | MAX. NO. APPL. PER SEASON |
|------------------|------|---------------------------|
| Broccoli | 7 | 5 |
| Bulb Onions | 7 | 3 |
| Cabbage | 7 | 5 |
| Cantaloupes | 7 | 5 |
| Carrots | 7 | 5 |
| Casabas | 7 | 5 |
| Cauliflower | 7 | 5 |
| Celery | 7 | 5 |
| Chinese Cabbage | 7 | 5 |
| Chinese Mustard | 7 | 5 |
| Collards | 7 | 5 |
| Crenshaws | 7 | 5 |
| Cucumbers | 7 | 5 |
| Endive | 7 | 5 |
| Green Peas | 5 | 3 |
| Honeydew Melons | 7 | 5 |
| Kale | 7 | 5 |
| Lettuce | 7 | 5 |
| Lima Beans | 5 | 3 |
| Mustard | 7 | 5 |
| Muskmelons | 7 | 5 |
| Parsley | 7 | 5 |
| Parsnips | 7 | 5 |
| Peppers | 7 | 5 |
| Persian Melons | 7 | 5 |
| Pole Beans | 5 | 3 |
| Potatoes (Irish) | 7 | 5 |
| Radish | 7 | 5 |
| Snap Beans | 5 | 3 |
| Spinach | 7 | 5 |
| Summer Squash | 7 | 5 |
| Sweet Potatoes | 7 | 5 |
| Swiss Chard | 7 | 5 |
| Tomatoes | 7 | 5 |
| Turnips | 7 | 5 |
| Watermelons | 7 | 5 |
| Winter Squash | 7 | 5 |

Do not use on certain bean or pea varieties.
Do not use on commercially grown potatoes which will be next-harvested.

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

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| CROP | PEST | RATE | REMARKS |
|----------|---|--|---|
| Broccoli | Root Maggots | 2-5 1/2 ^b oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil. |
| | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate into soil 4-8 inches of soil. |
| Cabbage | Root Maggots | 2-5 1/2 oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil. |
| | Cutworms *Garden Symphylans (Centipedes) | 2-7 oz. ^c per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. *The high rate will suppress garden symphylan populations. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. ^d per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-8 inches of soil. |

| CROP | PEST | RATE | REMARKS |
|----------------------------|---------------|-----------------------------|---|
| Cauli-flower | Root Maggots | 2-5 1/2 oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil. |
| | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting and incorporate in the top 4-8 inches of soil. |
| Chinese Cabbage (Bok Choy) | Root Maggots | 2-5 1/2 oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil. |
| | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil. |
| Chinese Mustard (Gai Choy) | Root Maggots | 2-5 1/2 oz. per 500 sq. ft. | Broadcast before planting or transplanting. Incorporate in the top 4-6 inches of soil. |
| | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |

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| CROP | PEST | RATE | REMARKS |
|-------------------------------------|---------------|-----------------------------|---|
| Chinese Mustard (Gai Choy) (con't.) | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting and incorporate in the top 4-8 inches of soil. |
| Collards | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting and incorporate in the top 4-8 inches of soil. |
| Kale | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate in the top 4-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting and incorporate in the top 4-8 inches of soil. |

| CROP | PEST | RATE | REMARKS |
|---|-----------|-----------------------------|--|
| Cucumber | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Musk- melons, Persians, & Hybrids of these) | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Summer Squash | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Winter Squash | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Watermelon | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |

| CROP | PEST | RATE | REMARKS |
|----------|---|---|--|
| Tomatoes | Cutworms *Garden Symphylans (Centipedes) | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-3 inches of soil. *The high rate of application will help suppress garden symphylan populations. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present. make application to plant beds or fields 1-2 days prior to sowing of seed or transplanting and incorporate into the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Peppers | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present. Make application to plant beds or fields 1-2 days prior to sowing of seed or transplanting and incorporate into the top 1-2 inches of soil. |
| | Wireworms | 5 1/2-7 oz. ^s per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil. |
| Celery | Cutworm | 2-7 oz. ^s per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches to control cutworms. |
| | Wireworms | 5 1/2-7 oz. ^s per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches to control wireworms. |

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| CROP | PEST | RATE | REMARKS |
|----------------------|--|--------------------------------|---|
| Endive (Escarole) | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches to control cutworms. |
| | Mole Cricketts | 1 oz. per 500 sq. ft. | Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorporate 1-2 inches. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches. |
| Lettuce | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches to control cutworms. |
| | Mole Cricketts | 1 oz. per 500 sq. ft. | Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorporate 1-2 inches. |
| | Wireworms *Garden Symphylans (Centipedes) | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches. *The high rate will suppress garden symphylan populations. |
| Mustard | Mole Cricketts | 1 oz. per 500 sq. ft. | Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorporate 1-2 inches. |
| Parsley | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches to control cutworms. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches. |

A

| CROP | PEST | RATE | REMARKS |
|--|---|-----------------------------|--|
| Spinach | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches. |
| Swiss Chard | Cutworms | 2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-8 inches. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 2-4 inches. |
| Beans (Pole Snap or Lima) <i>See page 10</i> <i>See page 11</i> <i>See page 12</i> <i>See page 13</i> <i>See page 14</i> <i>See page 15</i> <i>See page 16</i> <i>See page 17</i> <i>See page 18</i> <i>See page 19</i> <i>See page 20</i> <i>See page 21</i> <i>See page 22</i> <i>See page 23</i> <i>See page 24</i> <i>See page 25</i> <i>See page 26</i> <i>See page 27</i> <i>See page 28</i> <i>See page 29</i> <i>See page 30</i> <i>See page 31</i> <i>See page 32</i> <i>See page 33</i> <i>See page 34</i> <i>See page 35</i> <i>See page 36</i> <i>See page 37</i> <i>See page 38</i> <i>See page 39</i> <i>See page 40</i> <i>See page 41</i> <i>See page 42</i> <i>See page 43</i> <i>See page 44</i> <i>See page 45</i> <i>See page 46</i> <i>See page 47</i> <i>See page 48</i> <i>See page 49</i> <i>See page 50</i> <i>See page 51</i> <i>See page 52</i> <i>See page 53</i> <i>See page 54</i> <i>See page 55</i> <i>See page 56</i> <i>See page 57</i> <i>See page 58</i> <i>See page 59</i> <i>See page 60</i> <i>See page 61</i> <i>See page 62</i> <i>See page 63</i> <i>See page 64</i> <i>See page 65</i> <i>See page 66</i> <i>See page 67</i> <i>See page 68</i> <i>See page 69</i> <i>See page 70</i> <i>See page 71</i> <i>See page 72</i> <i>See page 73</i> <i>See page 74</i> <i>See page 75</i> <i>See page 76</i> <i>See page 77</i> <i>See page 78</i> <i>See page 79</i> <i>See page 80</i> <i>See page 81</i> <i>See page 82</i> <i>See page 83</i> <i>See page 84</i> <i>See page 85</i> <i>See page 86</i> <i>See page 87</i> <i>See page 88</i> <i>See page 89</i> <i>See page 90</i> <i>See page 91</i> <i>See page 92</i> <i>See page 93</i> <i>See page 94</i> <i>See page 95</i> <i>See page 96</i> <i>See page 97</i> <i>See page 98</i> <i>See page 99</i> <i>See page 100</i> | Cutworms *Garden Symphylans (Centipedes) | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations. |
| | Lesser Cornstalk Borer | 1-2 oz. per 500 sq. ft. | Apply in a 6 inch band centered over the row when plants are 1/2-1 inch tall. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate into soil 4-8 inches. |
| Green Peas | Cutworms *Garden Symphylans (Centipedes) | 2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate into soil 4-8 inches. |

| CROP | PEST | RATE | REMARKS |
|------------------|---|--------------------------------|---|
| Onions (bulb) | Onion Maggot | 2-7 oz. per 500 sq. ft. | Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon may not control resistant onion maggots. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast just prior to planting. Work into top 4-8 inches of soil immediately after application. |
| Carrots | *Garden Symphylans (Centipedes) Cutworms Mole Crickets Root Maggots Wireworms | 7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations. |
| Potatoes | Cutworms (Surface & Subter- anean) | 2-7 oz. per 500 sq. ft. | Just before planting broadcast and incorporate immediately in the top 4-6 inches of soil. |
| | Wireworms | 5 1/2-7 oz. per 500 sq. ft. | Broadcast and incorporate 4-6 inches before planting. |
| | | 1-5 1/2 oz. per 500 sq. ft. | Apply at planting in two 3-6 inch deep bands along both sides of the row. |
| Radish | Root Maggots | 1-2 oz. per 500 sq. ft. | Apply in the seed furrow at planting (2 1/2-2 4/5 oz. per 1,000 linear feet of row). |
| | *Garden Symphylans (Centipedes) Cutworms Mole Crickets Wireworms | 7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations. |

| CROP | PEST | RATE | REMARKS |
|--------------------|--|------------------------------|--|
| Radish (con't.) | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches. |
| Sweet Potatoes | Wireworms Flea Beetle White Grubs Southern Corn Rootworm | 5 1/2 oz. per 500 sq. ft. | Broadcast just prior to planting. Incorporate 4-8 inches. or. Broadcast 21 lb./Acre over the tops of vines when roots begin to enlarge (South-eastern U.S.). |
| Turnip | *Garden Symphylan (Centipedes) Cutworms Mole Crickets Root Maggots Wireworms | 7 oz. per 500 sq. ft. | Broadcast just before planting. Incorporate 4-6 inches. *This application will only suppress garden symphylan populations. |
| | Mole Crickets | 1 oz. per 500 sq. ft. | Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches. |

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SPREADER SETTING NO.
(per 1000 sq. ft.)

| Spreader Make and Model | Insects listed below† |
|---|-----------------------------------|
| | Grass or Dichondra Lawn 2 lbs. |
| Central Imperial Mark No. 1662-G | 6 1/2 |
| Central Suburbia Lawn Spreader - No. 1622-0 | 6 1/2 |
| Cyclone Model B1 Rotary | 4 1/2 |
| Greenfield Model 105 | 6 1/2 |
| ORTHO Drop Spreader Model 3000 | 4 1/2 |
| ORTHO Broadcast Spreader Model 4000 | 4 1/2 |
| J. C. Penney Model 6005 | 7 1/4 |
| J. C. Penney Rotary Spreader | 5 |
| Scott Model 35 | 4 |
| Sears Craftsman Model 671.19198 | 5 |

†Ants
Armyworms
Bermudagrass Mites
Brown Dog Ticks
Chiggers
Chinch Bugs

Clover Mites
Crickets
Cutworms
Earwigs
Fleas
Hyperodes Weevil

Lawn Moths
(Sod Webworms)
Leafhoppers
Millipedes
Sowbugs
(Pill Bugs)
Springtails
(Collembola)

27

Storage and Disposal

in a cool, dry, well-ventilated area

Storage: Store in original container. ~~Store product~~ in an area inaccessible to children and domestic animals. ~~To prevent cross-contamination,~~ do not store near fertilizers, herbicides, other insecticides, seeds, food, or feed.

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse empty bag. Discard bag in trash.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Avoid contamination of food and feed. ~~Do not store near food or feed products.~~ Avoid inhalation of dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. ~~May be absorbed through skin.~~ Keep children and pets off treated areas until this material is washed into the soil and grass is dry.

Environmental Hazards

This product is toxic to fish and wildlife. ~~Keep out of lakes, streams, or ponds.~~ Apply this product only as specified on this label.

Do not store near food or feed products. Feed utensils such as spoons or measuring cups must not be used to feed purposes after use in measuring pesticides. Do not contaminate ornamental fish ponds.

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

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EPA Reg. No. 100-528

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA A1L86D

BEST AVAILABLE COPY

Insert above Emu. Hazard

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Statement of Practical Treatment

If swallowed: call a physician immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

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

If on skin, wash promptly with soap and water. Rinse thoroughly.

If in eyes, rinse eyes with plenty of water and call a physician immediately.

Note to Physician

this product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.