

INSECTICIDE



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For control of certain
insects and mites on fruits.

nuts, vegetables, field crops, lawns, and ornamentals. For specific pests, refer to use directions. This product must not be used on golf courses and sod farms.

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-

methyl-4-pyrimidinyl) phosphorothioate . . . 50.0%

Inert Ingredients:

50.0% 100.0%

Total:

D-z-n diazinon 50W is a wettable powder.

EPA Reg. No. 100-460

KEEP OUT OF REACH OF CHILDREN. CAUTION

See additional precautionary statements and directions for use inside booklet.

NCP 460A-L2S 0298

**U** NOVARTIS

# 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 the 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 Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis 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. Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Selier be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Novartis and the Selier 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 Novartis.

# **DIRECTIONS FOR USE**

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

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap since crop or plant injury may result.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

ACCEPTED

SEP 1 5 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the posticide registered under EPA Reg. No. 100 - 460

NCP 130-460A-L2S

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Morker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural posticides, it contains requirements for training decontainments, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into standard, under certain directions allows workers to enter the treated area if there will be no contact with anything that rest been treated.

PPE required for early entry to treated areas that is permitted under the Worker Projection Standard and that involves contact with anything that has been treated, such as plants, soil, or water s:

- Coverails
- Waterproof gloves
- · Shoes plus socks

# NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses if his product that are NOT within the state of the Worker Protection Standard for agricultural pesticides (40 CFR Part 177). The WPS accides when this product is used to produce agricultural plants on farms, forests, nurseries, or greenouses.

Do not permit children or pets to to onto Tessed areas until sprays have dried.

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

#### GENERAL INFORMATION

D-z-n diazinon 50W is a wettable provder which, when diluted with water according to the directions, is intended for control of insect pests of agricultural crops and other piants. Do not use this product on food proces grown in greenhouses. Do not use in barns or dwellings. Do not use on fivestock.

In the directions for use which follow best commit is obtained when application is made at first sign of pests. Application should be repeated only as directed to marriain commit.

# **WORK SAFETY BULES**

REPEATED EXPOSURES TO CHOLINESTEE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITH-OUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

When handling D-z-n diazinon 50% do not rue eyes or mouth with hence. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of his label.

Note: The California Department of Agriculture has set a 5-bay reentry period for discription on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated bilage. When a mixture of two or more organizable pesticides are applied in combination, the interval should be prolonged by acting to the largest applicable interval am applicable of that interval.

# SPRAY EQUIPMENT

Applications of D-z-n diazinon 50W using sufficient water-volume to provide thorough and uniform coverage generally provide the most effective pest control.

To avoid spray drift, do not apply when conditions lavor drift from beyond the targett area. Avoid overlap because crop injury may not ur

Equip sprayers with nozzles that provide accurate and uniform application. Be demain that nozzles are the same size and uniformly spaced across the boom. Calibrate scrayer before use.

For more information on spray equipment arm calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult your local or state agricultural authorities.

# MIXING PROCEDURES

Thoroughly clean spray equipment before using this product. Prepare only the amount of spray mixture needed for the immediate application. Vigorous agitation is necessary for proper depensal of this product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand in the spray tank overnight. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

### 1. D-z-n diazinon 50W Alone:

Add 1/2 of the required amount of water to the mix tank. With the agrizon running, add the D-z-n diazinon 50W to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the D-z-n diazinon 50W flag. completely dispersed into the mix water. Marmain agitation until all of the mixture has been applied.

#### 2. D-z-n diazinon 50W in Tank Mixtures:

Note: Do not mix D-z-n diazinon 50W with any formulation of Capter or Capter to because crop injury may occur.

D-z-in diazinon 50W is compatible with most insecticide and fungicide products; intowever, physical compatibility with tank mix partners should be tested before use. Using a quartifier, and the proportionate armounts of each product to 1 qt. of water. And wettable powders and water-dispersible gramuar products first, then foud flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be readily remixed, the products are compatible.



Once compatibility has been proven, add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. Add tank mix partners in this order; all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to fully disperse before adding the next product. Maintain sufficient agration while adding the remainder of the water and until all of the mixture has been applied.

When using D-z-n diaztnon 50W in tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' label. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

#### **AERIAL APPLICATION**

Avoid application when uniform coverage will not result or when excessive spray or a may occur. Do not alliew product to contact animals or unprotected persons.

# CHEMIGATION (APPLICATION THROUGH AN IRRIGATION SYSTEM)

D-2-n diazinon 50W may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot, lateral move, end four side (wheel) roil, traveler, by gun, solid set or hand move) or drip (trickle) imigation systems (including surface and subsurface). Do not apply this product through any other type of irrigation system. To insure compatibility, pour the products into a small container of water in the correct proportions. After therough mixing, let stand for 5 minutes, if the combination remains mixed, or can be remixed readily, the mixture is compatible.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect the Irrigation system used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgettie of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments, if the need arises.

### Chemigation System Connected to Public Water Systems

- 1. Public water system means a system for the provision to the public of poed water for human consumption it such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily, at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of prescode introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pescode introduction. There shall be a complete physical break (air gap) between the outer and of the fill pipe and the top or overflow tim of the reservoir tank of at least twice the inside diameter of the fill pipe.

### Sprinkler and Drip (Trickle) Chemigation

- The system must contain a functional check-valve, a vacuum relief valve, and the cressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-dissing theck-value to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally bosed, sciencid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent flux from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlooking controls to automatically shut of the pesticide injection pump when the water pump motor stops.
- The imigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is anyersely effected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pestiones and cacalle of being fitted with a system interlock.
- 7. Do not use sprinkler chemigation when wind speed favors drift beyont the area intended for treatment.

### **Operating Instructions**

- 1. Determine the acreage to be treated by the sprinkler system.
- 2. Measure the appropriate amount of D-z-n diazinon 50W needed to treat the accreage to be treated. Refer to the specific directions for use for the application rate and the amount of water per acre.
- 3. Add the pre-measured D-z-n diazinon 50W to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when D-z-n diazron 50W is used alone or tank mixed with other pesticides registered for sprinkler or drip chemigation.
- Start the irrigation system and bring the system up to full pressure. πaking pertain that all sprinkler heads are functioning properly.
- 5. Engage the chemigation injection or venturi system to add the D-z-n dazunon SOW to the intigation lines.
- Continue to run irrigation system for a few minutes after supply tank # ampty to allow materia! in the irrigation lines to reach
  the sprinkler heads furthest from the chemigation injection point.

Note: When treated with D-z-n diazinon 50W has been completed, further fleed imigation over the treated area should be avoided for 48 hours to prevent washing the product off of the crop.

Apply D-z-n diazinon 50W only in sufficient irrigation water to achieve moreugh plant coverage. Excess water will wash the product from the plant, resulting in poor control.

To avoid a hazard to animals, well or adjoining crops, do not allow irrigaton water to collect or funcif.

# FRUIT AND NUT CROPS

### REI - 24 Hours.

D-2-n diazinon 50W may be applied using ground or aerial application equipment as specified in the following table. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of D-2-n diazinon 50W for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or use trace with conventional ground equipment at a rate of 300-400 gals, of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "bs." or "bs. of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 lb. of D-2-n diazinon 50W per 100 gals, of water, this amounts to 3-4 lbs. of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gals, of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the directions for use for individual crops.

|                 | Aerial Application | Ground Application Minimum Gals./Acre |             |
|-----------------|--------------------|---------------------------------------|-------------|
| Crop            | Minimum Gals./Acre | Dilute                                | Concentrate |
| Almonds*        | 20                 | 100                                   | 20          |
| Apples          | 20                 | 100                                   | 20          |
| Apricots        | 20                 | 100                                   | 20          |
| Blackberries**  | 20                 | 100                                   | 20          |
| Blueberries     | 20                 | 100                                   | 50          |
| Boysenberries** | 20                 | 100                                   | 50          |
| Cherries        | 20                 | 100                                   | 20          |
| Cranberries     | 20                 | 15                                    |             |
| Dewberries**    | 20                 | 100                                   | 20          |
| Grapes          | 20                 | 100                                   | 20          |
| Loganberries**  | 20                 | 100                                   | 20          |
| Nectarines      | 20                 | 100                                   | 50          |
| Peaches         | 20                 | 100                                   | 50          |
| Pears           | 20                 | 100                                   | 20          |
| Pineapple       | 20                 | 200                                   |             |
| Plums           | 20                 | 100                                   | 20          |
| Prunes          | 20                 | 100                                   | 20          |
| Raspberries**   | 20                 | 100                                   | 50          |
| Strawberries    | 20                 | 100                                   | 20          |
| Walnuts*        | 20                 | 100                                   | 20          |

<sup>&</sup>quot;CA only

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

| Crop          | PHI* |
|---------------|------|
| Almonds       | **   |
| Apples        | 21   |
| Apricots      | 21   |
| Blackberries  | 7    |
| Blueberries   | 7    |
| Boysenberries | 7    |
| Cherries      | 21   |
| Cranberries   | 7    |
| Dewberries    | 7    |
| Grapes        | 28   |
| Loganberries  | 7    |
| Nectarines    | 21   |
| Peaches       | 21   |
| Pears         | 21   |
| Pineapple     | 7    |
| Plums         | 21   |
| Prunes        | 21   |
| Raspberries   | 7    |
| Strawberries  | 5    |
| Walnuts       | 45   |

<sup>\*</sup>PHI = Pre-Harvest Interval or the number of days to wait between the last application and harvest.

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

<sup>\*\*</sup>CA, OR, or WA only.

<sup>\*\* =</sup> Dormant spray only.

| Сгор                 | Pests  | Rate  | Timing/Special Directions  |
|----------------------|--|---|--|
| Almonds<br>(CA only) | San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mide Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs   | 1-11/z lbs. + 2-3<br>gails. dormant oil<br>or 1-11/z gals.<br>superior type oil<br>in 100 gals. of<br>water | Apply only as a single dormant spray. Do not apply more than 6 lbs. of product or 9 gafs, of oil per acre.   |
| Apples               | San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs   | 1 lb. + 2 gals. dormant oil or 1-11/2 gals. superior type oil in 1100 gals. of watter                       | Apply as a domant or delayed dormant spray. Do not apply more than 4 lbs. of product or 6 gals, of oil per acre.   |
|                      | Leafhoppers  | 1 to in 100 gals.<br>of water   | Acply, beginning at petal fall, as infestations develop.<br>Repeat application in 14 days, if necessary.   |
|                      | Eyespotted Bud Moths, Fruit<br>Tree Leafrollers, Mealybugs   | 1 lb. in 100 gals.<br>of water  | Make 3 cover strays, beginning at pink stage. Do not repeat application closer than 14 days.   |
|                      | Codling Moths, Rosy Apple<br>Achids, Green Apple Aphids  | 1 lb. in 100 gals.<br>Of water  | Make 3 cover strays beginning when infestations occur.<br>Do not repeat applications closer than 14 days.  |
|                      | Woolly Apple Aphids, Spider<br>Mites   |   | Note: Mites will be suppressed if diazinon is used in the<br>regular cover stray program. Slight russeting may occur<br>on some varieties of apples, such as Golden Delicious.   |
|                      | Apple Maggots  | 1 lb. in 100 gals.<br>of water  | Make 3 cover strays when flies are active and laying eggs. Do not receat applications closer than 14 days.   |
|                      |  |   | Note: Diazinor may not control organischosphate-<br>resistant apple maggots.   |
|                      | San Jose Scale Crawlers.<br>Forbes Scale Crawlers  | 1 ib. in 100 gals,<br>of water  | Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.  |
|                      |  |   | plication and no more than 12 (bs. of product per acre per ween the last explication and harvest.  |
| Apricots             | San Jose Scale, Parlatoria Scale, Black Scale Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apole Aphild Eggs, Black Cherry Aprild Eggs, Mealy Plum Aprilc Eggs, Mealybugs | 1 lb. + 2 gals, dormant oil or 1-1½ gals, superior type oil in 130 gals, of watter                          | Apply as a domaint spray Do not apply more than 4 lbs. of product or 6 gals, of oil per acre.  |
|                      | Achids, Brown Mites<br>(Clover Mites),<br>Two-spotted Spider Mites,<br>Olive Scale Crawlers,<br>San Jose Scale Crawlers  | 1 lb. in 100 gals.<br>of water  | Apply as infestations coour. Repeat application after 14 days, if necessary.   |
|                      | Olive Scale Crawlers   | 1/2 ltb. + 11/2 gals.<br>of light medium<br>horticultural oil<br>in 1:00 gals. of<br>watter                 | Apply when some crawlers are present. Do not apply more than 4 lbs. of product or 6 gals, of oil per acre per application.   |
|                      | Apricot Mealybugs  | 1 lb. in 100 gals.<br>of water  | Apply as a cover spray from petal fall to June. Allow 14 days between applications.  |
|                      |  |   | plication and no more than 12 lbs. of product per acre per<br>tween the last acclication and harvest.  |
| Blueberries          | Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Two-spotted Spider Mites   | 2 lbs:/A  | Apply as infestations occur. Allow 14 days between applications.   |
|                      | Fire Ants  | 2 lbs/A   | To aid in the control of fire ants, slowly apply 1 gal, of diluted mixture over and 6 inches to each fire ant mound. Apply gantly to avoid disturbing ants. Use equipment capable of delivering the diluted product as a |
|                      |  | ]   | gentle rain. High pressure scrays may disturb the ants and cause migration, reducing product effectiveness.  Note: For best results, apply in cool weather, 65-85°F, or  |

Notes: (1) Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

| Сгор   | Pests  | Rate   | Timing/Special Directions   |
|--|--|--|---|
| Caneberries CA, OR, and WA only: Blackberries, Boysenberries, Dewberries, Loganberries | Leafhoppers, Thrips, Aphids,<br>Two-spotted Spider Mites,<br>Raspberry Fruitworms  | 2 lbs/A in a<br>minimum of 100<br>gals, of water<br>(200 gals, of<br>water maximum)                    | Apply as insects occur. Repeat application after 14 days if necessary.  For raspberry fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.  |
|  | Dryberry Mites   | 2-4 lbs/A in a<br>minimum of 100<br>gals. of water   | Apply as a dormant spray in the early Spring, when canes are still on the ground and buds are cosed.  Make a second application when buds are well developed, but still closed.   |
|  | Raspberry Crown Borers<br>(Raspberry Root Borers)  | 4 lbs/A in a<br>minimum of 100<br>gals, of water   | Apply as a drench to the crown and lower cares in the Spring before buds break.   |
|  |  |  | lication and no more than 10 lbs. of product per acre per<br>reen the tast application and harvest.   |
| Cherries   | San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs | 11/4 fbs. + 3 gals.<br>dormant oil or<br>1-11/2 gals.<br>superior type oil<br>in 100 gals. of<br>water | Apply as a dormant spray. Do not apply more than 4 lbs of product or 6 gats, of oil per acre.   |
|  | Eyespotted Bud Moths,<br>Fruit Tree Leafrollers  | 1 lb, in 100 gals.<br>of water   | Apply as infestations occur, beginning at pera fall.<br>Repeat application after 7 days, finecessary  |
|  | Leathoppers  | 1 lb. in 100 gals.<br>of water   | Make 3-4 applications beginning at petal la! and continuing through the growing season as investations occur. Allow 7 days between applications.  |
|  | Cherry Fruitflies  | 1/2-1 lb. in 100<br>gals, of water   | Make 3-4 applications beginning when adult fies begin to emerge and repeating at 10-day intervals.  |
|  | Black Cherry Aphids  | 1 lb. in 100 gals.<br>of water   | Apply as a cover spray when aphids appear Tepeat application after 10 days, if necessary.   |
|  | San Jose Scale Crawlers  | 1 lb, in 100 gals.<br>of water   | Apply during the pre-pink stage or when crawers first appear.   |
|  | Cherry Rust Mites  | 1/2-1 lb. in 100<br>gais, of water   | Apply as a single supplemental scray to trees after<br>harvest.   |
|  |  |  | plication and no more than 12 lbs. of product cer acre pen the last application and harvest.  |
| Cranberries  | Blackheaded Fireworms<br>(Rhopobota naevana)   | 4 lbs.   | Apply to larval stage. Pheromone trap caper and sweep monitoring may be used to optimize treatment traing. Repeat application after 14 days, if necessary. A maximum of 6 applications per season is permitted.   |
|  | Cranberry Tipworms   | 4 lbs.   | Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary A maximum of 6 applications per season is permitted.   |
|  | Cranberry Fruitworms   | 4-6 lbs:/A   | Cranberry growth stage and/or berry inspection for egg may be used to optimize treatment timing; consult your local extension agent or pest management across. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted for the 6 lb. rate. A maximum of 6 applications per season is permitted for the 4 lb. rate. |
| product in a mi<br>up to 400 gals,<br>use water from<br>approved diazi                 | nimum of 15 gals, of water per acre, of water per acre. Refer to the Ci irrigated or flooded cranberry bed   | e for aerial application<br>nemigation section<br>s for drinking purpo<br>than 24 lbs. of prod         | rial, or sprinkler irrigation. For ground application, apply to<br>on, a minimum of 20 gals, of water per acre for premigation<br>of this label for specific chemigation directions. (2) Do no<br>ses or to irrigate crops other than those appearing on EP<br>aud per acre per season. (4) To avoid illegat residues, alk                                  |
| Grapes   | Pacific Spider Mites,<br>Leathoppers,<br>Grape Berry Moths,<br>Grape Leatfolders,<br>Omnivorous Leatrollers,<br>Aphids, Spider Mites   | 1-2 lbs/A in a<br>minimum of 100<br>gals, of water<br>(200 gals, of<br>water maximum)                  | Apply as a thorough cover spray when pest acpears. Repeat application after 7 days, if necessary  |
|  | Drosophila spp.  | 6 oz./A in a<br>minimum of 100   | Apply as a thorough cover spray when pest amears. Repeat applications after 7 days, if necessary  |

| Сгор       | Pests   | Rate  | Timing/Special Directions   |
|------------|---|---|---|
| Nectarines | San Jose Scale,<br>Partatoria Scale, Black Scale,<br>Brown Scale, European Red<br>Mite Eggs, Twig Borers,<br>Apple Aphid Eggs, Black Cherry<br>Aphid Eggs, Mealy Plum Aphid<br>Eggs, Mealybugs  | 1 lb. + 2-3 gals.<br>of dommant oil<br>or 1-11/2 gals.<br>superilior type oil<br>in 100 gals. of<br>water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.  |
|            | Aphids, Brown Mites<br>(Clover Mites),<br>Two-spotted Spider Mites,<br>Olive Scale Crawlers,<br>San Jose Scale Crawlers   | 1 lb. im 100 gals.<br>of watter   | Apply as infestations occur. Repeat application after 7 days, if necessary.   |
|            | Peach Twig Borers,<br>Parlatoria Scale  | 1 lb. + 1 ga/.<br>light medium<br>summer hord-<br>cultural oil in 100<br>gals, of water                   | Apply at petal falt. Do not apply more than 4 lbs. of product or 4 gals, of summer oil per acre.  |
|            | Olive Scale Crawlers  | 1/2 fb. # 11/2<br>gals, light<br>medium horti-<br>cultural oil in<br>100 gals, of<br>water                | Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications.                          |
|            | Oriental Fruitmoths   | f fb. in 100 gals.<br>of water  | Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.   |
|            |   |   | plication and no more than 12 lbs. of product per acre per<br>ween the last application and harvest.  |
| Peaches    | San Jose Scale,<br>Parlatoria Scale, Black Scale,<br>Brown Scale, Apricot Scale,<br>European Red Mite Eggs,<br>Brown Mite Eggs, Twig Borers.<br>Apple Aphid Eggs, Black Cherry,<br>Aphid Eggs, Mealy Plum Aphic<br>Eggs, Mealybugs                                | 1 lb. + 2-3 gals.<br>dormant of or<br>1-11/2 gals.<br>superior type oil<br>in 100 gals. of<br>water       | Apply as a dormant spray. Do not apply more than 4 lbs, of product or 6 gals, of oil per acre.  |
|            | Aphids, Brown Mites<br>(Clover Mites),<br>Two-Spotted Spider Mites,<br>Olive Scale Crawlers,<br>San Jose Scale Crawlers   | t lb. in 100 gals.<br>of water  | Apply as infestations occur. Repeat application after 14 days, if necessary.  |
|            | Peach Twig Borers<br>Parlatoria Scale   | 1 lb. + 3 ga. light<br>medium somer<br>horticultura oil in<br>100 gais. of water                          | Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals, of oil per acre.   |
|            | Olive Scale Crawlers  | 1/2 lb. + 11/2 gals. Ilight medium horticultural oil in 100 gals. of water                                | Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals, of summer oil per acre per application. Allow 7 days between applications.                          |
|            | Oriental Fruit Moths  | 1 lb. in: 100 gals.<br>of water   | Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.   |
|            | Peach Twig Borers   | 1 to, in 100 gals.<br>of water  | Apply as insects occur in May and June. Allow 7 days between applications.  |
|            | Leafhoppers   | 1 lb, in: 100 gals.<br>of water   | Make 3-4 applications, beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.   |
| ···        | White Peach Scale   | 11/2-2 libs. in 100<br>gais, of water   | Apply post harvest, timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed         |
|            |   |   | plication and no more than 12 lbs. of product per acre pe<br>ween the last application and harvest.   |
| Pears      | San Jose Scale,<br>Parlatoria Scale, Black Scale,<br>Brown Scale, Apricot Scale,<br>European Red Mite Eggs,<br>Brown Mite Eggs, Pear Leaf<br>Blister Mite Eggs, Twig Borers,<br>Apple Aphid Eggs, Black Cherry<br>Aphid Eggs, Mealy Plum Aphid<br>Eggs, Mealybugs | 1 lb. + 2-3 gals.<br>dormant oil or<br>1-11/2 gals.<br>superior type oil<br>in 100 gals. of<br>water      | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.  |
|            | Pear Psylla   | 1/2-1 lb. in 100<br>gals. of water  | Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications. |

| Сгор                            | Pests   | Rate   | Timing/Special Directions  |  |
|---------------------------------|---|--|--|--|
| Pears<br>(continued)            | Tentiform Leafminers,<br>Mealybugs  | 1 lb, in 100 gals.<br>of water   | Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.  |  |
|                                 | Codling Moths, Rosy Apple<br>Aphids, Green Apple Aphids,  | 1 lb. in 100<br>gals. of water   | Make 3 cover sprays, beginning as infestations occur.  Allow at least 14 days between applications.  |  |
|                                 | Wooly Apple Aphids, Spider<br>Mites   |  | Note: Mites will be suppressed if diazinon is used in this regular cover spray program.  |  |
|                                 | Apple Maggots   | 1 to, in 100 gals.<br>of water   | Make 3 cover sprays when flies are active and laying eggs. Allow at least 14 days between applications.  |  |
|                                 |   |  | Note: Diazinon will not control organophosphate-<br>resistant apple maggot.  |  |
|                                 | San Jose Scale Crawlers,<br>Forbes Scale Crawlers   | 1 lb, in 100 gats.<br>of water   | Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.  |  |
| Notes: (1) Do<br>season. (2) To | not apply more than 4 lbs. of prod-<br>avoid illegal residues, allow a minir  | uct per acre per ap<br>num of 21 days bet  | plication and no more than 12 bs. of product per acre pe<br>ween the last application and harvest.   |  |
| Pineapple                       | Pineapple Mealybugs   | 2 lbs:/A in<br>200-500 gals.<br>of water   | Repeat application, as necessary, every 28 days, up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur.   |  |
| Plums                           | San Jose Scale,<br>Parlatoria Scale, Black Scale,<br>Brown Scale, Apricot Scale,<br>European Red Mite Eggs,<br>Brown Mite Eggs, Trig Borers,<br>Apple Aprid Eggs, Black Cherry<br>Aphid Eggs, Mealy Plum Aphid<br>Eggs, Mealybugs | 1 lb. + 2-3 gals.<br>dormant oil or<br>1-11/2 gals.<br>superior type<br>oil in 100 gals.<br>of water | Apply as a dormant spray. Do not apply more than 4 bs. of product or 6 gats, of oil per acre. If applied in late April or May, mix diazinon with 1 gal, of light medium summer horticultural oil per 100 gals, of water.     |  |
|                                 | Brown Mites, Clover Mites,<br>European Red Mites  | 1 lb. in 100 gals.<br>of water   | Apply, as needed, every 7 days.  |  |
|                                 | Leafourt Plum Aphids,<br>Mealy Plum Aphids.<br>Thisde Acnids  | 1/2-1 lb. in 100<br>gals. of water   |  |  |
|                                 |   |  | plication and no more than 12 lbs. of product per acre pe<br>ween the last application and harvest.  |  |
| Prunes                          | San Jose Scale, Parlatona Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Apriid Eggs, Black Cherry Aphiid Eggs, Mealy Plum Aphiid Eggs, Mealybugs                    | 1 lb. + 2-3 gals.<br>dormant oil or<br>1-11/2 gals.<br>superior type<br>oil in 100 gals.<br>of water | Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals, of oil per acre. For late April or May applications, mix diazinon with 1 gal, of light medium summer horticultural oil per 100 gals, of water. |  |
|                                 | Brown Mass, Clover Mites,<br>European Red Mites   | 1 lb. in 100 gals.<br>of water   | Apply, as needed, every 7 days.  |  |
|                                 | Leafcuri Pium Aphids,<br>Mealy Pium Aphids,<br>Thistle Achids   | 1/2-1 tb. in 100<br>gals. of water   |  |  |
|                                 |   |  | plication and no more than 12 bs. of product per acre poween the last application and harvest.   |  |
| Strawberries                    | Aphids,<br>Two-Spotted Spider Mites   | 1 lb. in 100 gals.<br>of water per acre  | Apply as pests occur. Repeat application, if necessary, after 7 days.  |  |
|                                 | Cyclamen Mites  | 2 lbs. in 100 gals.<br>of water per acre   | Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days, if necessary.  |  |
|                                 | Mole Crickets   | 2 lbs/A  | Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.   |  |
|                                 | Strawberry Leafrollers  | 3/4-1 lb. in 100<br>gals, of water   | Apply 200 gals, of spray per acre when biossoms show color.  |  |
|                                 |   |  | oplication and no more than 8 bs. of product per acre perenthe last application and harvest.   |  |
| Walnuts<br>(CA only)            | Aphids, Spider Mites  | 2 fbs. in 100 gais.<br>of water per acre   | Apply as a foliar spray. Repeat application in 14 days, if necessary. Do not make more than 3 applications per   |  |
| (ON OHY)                        | Codling filoths, Scale Crawlers,  | 6 lbs. in 100 gals.  | season. Do not apply within 45 days of harvest or husks open or illegal residues may occur.  |  |

husks open.

# VEGETABLE CROPS

# REI - 24 Hours.

For foliar or soil applications, D-z-n diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D-z-n diazinon 50W may be applied aerially or by ground application as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate directions for use for each crop.

|  | Grou                  | Ground Application |                                |  |
|--|-----------------------|--------------------|--------------------------------|--|
| Crop   | Minimum<br>Gais./Acre | OR                 | Minimum<br>Gals./1,000 Sq. Ft. | Aerial Application<br>Minimum Gals./Acre |
| Beans (Lima, Pole, and Snap)<br>(succulent only) | 10                    |                    | 2                              | 5  |
| Beets, Red (Table)                               | 10                    |                    | 2                              | 5  |
| Broccoli   | 10                    |                    | 2                              | 5  |
| Brussels Sprouts                                 | 10                    |                    | 2                              | 5  |
| Cabbage  | 10                    |                    | 2                              | 5  |
| Cantaloupes                                      | 5                     |                    | 1                              | 5  |
| Carrots  | 10                    |                    | 2                              | 5  |
| Casabas  | 5                     |                    | 1                              | 5  |
| Cauliflower                                      | 10                    |                    | 2                              | 5  |
| Chinese Broccoli                                 | 10                    |                    | 2                              | 5  |
| Chinese Cabbage                                  | 10                    | $\neg$             | 2                              | 5  |
| Chinese Mustard                                  | 10                    |                    | 2                              | 5  |
| Collards   | 10                    |                    | 2                              | 5  |
| Crenshaws  | 5                     |                    | 1                              | 5  |
| Cucumbers  | 5                     |                    | 1                              | 5  |
| Endive (Escarole)                                | 10                    |                    | 2                              | 5  |
| Honeydew Melons                                  | 5                     |                    | 1 ,                            | 5  |
| Kale   | 10                    |                    | 2                              | 5  |
| Lettuce (Head and Leaf)                          | 10                    |                    | 2                              | 5  |
| Muskmetons                                       | 5                     |                    | 1                              | 5  |
| Mustard  | 10                    |                    | 2                              | 5  |
| Onions (Bulb and Green)                          | 10                    |                    | 2                              | 5  |
| Parsley  | 10                    |                    | 2                              | 5  |
| Parsnips   | 10                    |                    | 2                              | 5  |
| Peas (succulent only)                            | 10                    |                    | 2                              | 5  |
| Peppers  | 10                    |                    | 2                              | 5  |
| Persian Melons                                   | 5                     |                    | 1                              | 5  |
| Potatoes (Irish)*                                | 10                    |                    | 2                              | 5  |
| Radishes   | 10                    |                    | 2                              | 5  |
| Rutabagas  | 10                    |                    | 2                              | 5  |
| Spinach  | 10                    |                    | 2                              | 5  |
| Squash, Summer                                   | 5                     |                    | 1                              | 5  |
| Squash, Winter                                   | 5                     |                    | 1                              | 5  |
| Sweet Corn                                       | 20                    |                    | 4                              | 5  |
| Sweet Potatoes                                   | 10                    |                    | 2                              | 5  |
| Swiss Chard                                      | 10                    |                    | 2                              | 5  |
| Tomatoes   | 10                    |                    | 2                              | 5  |
| Turnips  | 10                    |                    | 2                              | 5  |
| Watermelons                                      | 5                     |                    | 1                              | 5  |

<sup>\*</sup>Do not use on commercially grown potatoes which will be hand-harvested.

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply to food crops grown in greenhouses.

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

| Сгор                         | PHI" (Days) |
|------------------------------|-------------|
| Beans (Lima, Pole, and Snap) | 7           |
| Beets, Red (Table)           | 14          |
| Broccoli                     | 7           |
| Brussels Sprouts             | 7           |
| Cabbage                      | 21          |
| Cantaloupes                  | 3           |
| Carrots                      | 14          |
| Casabas                      | 3           |
| Cauliflower                  | 7           |
| Chinese Broccofi             | 10          |
| Chinese Cabbage              | 10          |
| Chinese Mustard              | 10          |
| Collards                     | 10          |
| Crenshaws                    | 3           |
| Cucumbers                    | 7           |
| Endive (Escarole)            | 14          |
| Honeydew Melons              | 3           |
| Kale                         | 10          |
| Lettuce (Head and Leaf       | 1.4         |
| Muskmelons                   | 3           |
| Mustard                      | 13          |
| Onions (Bulb and Green       | 12          |
| Parsnips                     | 14          |
| Peas                         | 7           |
| Peppers                      | 5           |
| Persian Melons               | 3           |
| Potatoes (Irish)             | 35          |
| Radishes                     | 14          |
| Rutabagas                    | 14          |
| Spinach                      | 14          |
| Squash, Summer               | 7           |
| Squash, Winter               | 3           |
| Sweet Com                    | 7           |
| Swiss Chard                  | 14          |
| Tomatoes                     | 1           |
| Turnips (Roots and Tops)     | 14          |
| Watermelons                  | 3           |
|                              | <del></del> |

<sup>\*</sup>PHI=Pre-Harvest Interval or the number of days to wait between the last application and harvest.

Notes: (1) Soft incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see Timing/Special Directions) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms incorporate 3-6 inches. (2) To Protect Bees: Foliar applications of this product should not be made to peas or beans if these crops or weeds in the treatment area are in bloom, or to com during the pollen shed period.

| Crop   | Pests  | Rate   | Timing/Special Directions   |
|--|--|--|---|
| Beans<br>(Lima, Pole,<br>and Snap)<br>(succulent | Cutworms   | 4-8 lbs:/A.<br>or<br>11/2-3 oz./1,000<br>sq. ft.   | Broadcast just before planting and immediately incorporate into the soil, (See Soil Incorporation Note.)  |
| only)  | Wireworms  | 6-8 tbs:/A<br>or<br>21/4-3 oz./1.000<br>sq. ft.  | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Black Bean Aphids, Mexican<br>Bean Beetles, Dipterous<br>Leafminers          | 1-1 <sup>1</sup> /2 lbs. <sup>2</sup> A<br>or<br><sup>2</sup> /5- <sup>2</sup> /5 oz./1,100<br>sq. ft. | Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.   |
|  | Cucumber Beetles   | 1/2-3/4 b./£.<br>or<br>1/5-3/10 0Z./1 £00<br>sq. ft.   | Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if torage is to be cut for hay.  Make cucumber beetle application in 100 gals, of water  |
|  | Leafhoppers, Spider Mites  | 1 tb./A<br>or<br>2/5 oz./1,000<br>sq. ft.  | per acre.  Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.                                    |
|  | <u> </u>   |  | Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.  |
|  | azinon will not control organophosp<br>treatment area are in bloom.          | hate-resistant isefm   | iners. (2) To protect bees, do not apply foliarly if the crop or  |
| Beets, Red<br>(Table)                            | Cutworms   | 4-8 lbs /A<br>or<br>11/2-3 oz./1.000<br>sq. ft.  | Broaccast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Mole Crickets  | 2 lbs:/A<br>or<br>3/4 oz./1,000<br>sq. ft.   | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|  | Wireworms  | 6-8 lbs./#<br>or<br>21/4-3 oz.<br>1,000 sq. t.   | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Aphids, Dipterous Leafminers   | 1/2-1 lb./A<br>or<br>1/5-2/5 0z./1.000<br>sq. ft.  | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest, or illegal residues may occur.   |
|  |  | <u> </u>   | Note: Diazinon will not control organophosphate-<br>resistant leafminers.   |
| Broccoli   | Root Maggots   | 4-6 lbs./A<br>or<br>11/2-21/4 oz.<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.   |
|  |  | 4-8 oz. in<br>50 gals, of<br>water   | In transplant water as a drench application when 200-300 gals, of water are used per acre. Apply 1/2-1 cup (4-8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. |
|  |  |  | Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.   |
|  | Cutworms   | 4-8 lbs://A<br>or<br>11/2-3 oz./1,000<br>sq. ft.   | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Mole Crickets  | 2 fbs:/A<br>or<br>3/4 oz:/1,000<br>sq. ft.   | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|  | Wireworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./1,000<br>sq. ft.  | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Dipterous Leafminers | 1/2-1 tb./A<br>or<br>1/5-2/5 oz./1,010<br>sq. ft.  | Apply as insects occur. Repeat application, as necessary, with up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest, or illegal residues  |
|  |  |  | may occur.  Note: Diazinon will not control organophosphate-  |

| Сгор                | Pests  | Rate  | Timing/Special Directions   |
|---------------------|--|---|---|
| Brussels<br>Sprouts | Root Maggots   | 4-6 fbs./A<br>or<br>11/2-21/4 oz./<br>1,000 sq. ft.                   | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.   |
|                     |  | 4-8 oz. in 50 gals. of water  | In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.                             |
|                     |  |   | Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.   |
|                     | Cutworms   | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.                      | Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)  |
|                     | Mole Crickets  | 2 lbs./A<br>or<br>3/4 oz./<br>1,000 sq. ft.                           | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|                     | Wireworms  | 6-8 lbs./A<br>or<br>2 <sup>1</sup> /4-3 oz./<br>1,000 sq. ft.         | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|                     | Aphids, Diamondback Moths,<br>Imported Cabbageworms                          | 1/2-1 lb/A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft.                     | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest or illegal residues may occur.   |
| Cabbage             | Root Maggots   | 4-6 lbs./A<br>or<br>11/2-21/4 oz./<br>1,000 sq. ft.                   | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.   |
|                     |  | 4-8 oz. in 50<br>gals. of water                                       | In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 cup (4-8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.                               |
|                     |  |   | Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.   |
|                     | Cutworms   | 4-8 lbs./A<br>or<br>1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft.         | Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)  |
|                     | Mole Crickets  | 2 lbs/A<br>or<br>3/4 oz./<br>1,000 sq. ft.                            | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|                     | Wireworms  | 6-8 lbs:/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.                      | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|                     | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Dipterous Leafminers | 1/2-1 lb./A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft.                    | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 21 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosphate-resistant leafminers. |
| Carrots             | Cutworms   | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.                      | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|                     | Mole Crickets  | 2 lbs./A<br>or<br>3/4 oz./<br>1,000 sq. ft.                           | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|                     | Wireworms  | 6-8 tbs./A<br>or<br>2 <sup>1</sup> /4-3 oz./<br>1,000 sq. ft.         | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soit.   |
|                     | Carrot Rust Fly  | 4 lbs./A<br>or<br>1 <sup>1</sup> / <sub>2</sub> oz./<br>1,000 sq. ft. | Apply as a drench to the seed furrow at planting.   |

| Crop  | Pests   | Rate   | Timing/Special Directions   |
|---|---|--|---|
| Carrots<br>(continued)  | Aphids  | 1 lb./A<br>or<br><sup>2</sup> /s oz./  | Apply as insects occur. Repeat application. as necessary, up to 5 times with a minimum of 7 days between applications.  |
|   |   | 1,000 sq. ft.  | Do not apply within 14 days of harvest, or illegal residues may occur.  |
| Cauliflower   | Root Maggots  | 4-6 lbs/A<br>or<br>1 <sup>1</sup> / <sub>2</sub> -2 <sup>1</sup> / <sub>4</sub> oz./<br>1,000 sq. ft.            | Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.   |
|   |   | 4-8 oz. in<br>50 gals. of<br>water   | In transplant water as a drenor applicator when 200-300 gals, of water are used per acre. *cpty *1/2~? c.c. (4-8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.  Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting. |
|   | Cutworms  | 4-8 lbs/A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|   | Mole Crickets   | 2 lbs./A<br>or<br><sup>3</sup> /4 0z./<br>1,000 sq. ft.  | One to two days before planting, broadcas and immediately incorporate into the top 1-2 mines of soi.  |
|   | Wireworms   | 6-8 lbs/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soi.  |
|   | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Dipterous Leafminers                    | 1/2-1 tb./A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft.   | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest or idegal residues may occur.  Note: Diazinon will not control organoprostriate-resistant leafminers.  |
| Chinese<br>Broccoli,<br>Chinese<br>Cabbage<br>(Bok Choy<br>and Napa),<br>Chinese<br>Mustard<br>(Gai Choy) | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Dipterous Leatminers                    | <sup>1</sup> /2-1 lb./A<br>or<br><sup>1</sup> / <sub>5</sub> - <sup>2</sup> / <sub>5</sub> oz./<br>1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosomate-resistant leafminers.   |
| Collards  | Cutworms  | 4-8 lbs./A<br>or<br>1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note:)  |
|   | Mole Crickets   | 2 lbs/A<br>or<br><sup>3</sup> /4 oz/1,000<br>sq. ft.   | One to two days before planting, broadcast and immediately incorporate into the top 1-2 incres of soil.   |
|   | Wireworms   | 6-8 lbs/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|   | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Harlequin Cabbagebugs,<br>Corn Earworms | 1/2-1 lb./A<br>or<br>1/5-2/6 oz./<br>1,000 sq. ft.   | Apply as insects occur. Repeat application. as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of narvest or itegal residues may occur.   |
| Cucumbers   | Cutworms  | 4-8 tbs:/A<br>or<br>1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|   | Wireworms   | 6-8 lbs/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.  | Broadcast just before planting and immediately incorporate into the top 4-8 incres of soil.   |
|   | Aphids, Serpentine Leafminers,<br>Thrips, Striped Cucumber<br>Beetles, Melonworms               | 1 lb./A<br>or<br><sup>2</sup> /s oz./<br>1,000 sq. ft.   | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.  Note: Diazinon will not control organophosomate-resistant leafminers.  |

| Crop   | Pests  | Rate  | Timing/Special Directions   |
|--|--|---|---|
| Endive<br>(Escarole)   | Cutworms   | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Mole Crickets  | 2 tbs:/A<br>or<br>3/4 oz./<br>1,000 sq. ft.             | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|  | Wireworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate 4-8 inches into soil.  |
|  | Aphids, Dipterous Leafminers   | 1/2-1 lb./A<br>or<br>1/5-2/5 Oz./<br>1,000 sq. ft.      | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.  Note: Diazinon will not control organophosphateresistant leafminers. |
| Kale   | Cutworms   | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Mole Crickets  | 2 fbs./A<br>or<br>3/4 oz./<br>1,000 sq. ft.             | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|  | Wireworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Aphids, Diamondback Moths,<br>Imported Cabbageworms,<br>Harlequin Cabbagebugs,<br>Corn Earworms                | 1/2-1 lb/A<br>or<br>1/5-2/5 02./<br>1,000 sq. ft.       | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.   |
| Lettuce<br>(Head and<br>Leaf)  | Cutworms   | 4-8 lbs /A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Mole Crickets  | 2 lbs./A<br>or<br><sup>3</sup> /4 oz./<br>1,000 sq. ft. | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|  | Wireworms  | 6-8 lbs/A<br>or<br>21/4-3 oz/<br>1,000 sq. ft.          | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Aphids, Dipterous Leafminers   | 1/2-1 lb./A<br>or<br>1/6-2/5 0z./<br>1,000 sq. ft.      | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications.  Do not apply within 14 days of harvest.   |
|  |  | ļ   | Note: Diazinon will not control organophosphate-<br>resistant leafminers.   |
| Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelons | Cutworms   | 4-8 tbs/A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.         | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|  | Wireworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.        | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|  | Aphids, Dipterous Leafminers,<br>Thrips, Striped Cucumber<br>Beetles, Melonworms,<br>Leafnoppers, Spider Mites | 1/2-11/2 lbs./A<br>or<br>1/5-3/5 OZ./<br>1,000 sq. ft.  | Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegat residues may occur.   |
|  |  | <u> </u>  | Note: Diazinon will not control organophosphate-<br>resistant leafminers.   |
| Mustard  | Mole Crickets  | 2 lbs./A<br>or<br><sup>3</sup> /4 0z./<br>1,000 sq. ft. | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soit.   |

| Сгор                          | Pests   | Rate   | Timing/Special Directions  |
|-------------------------------|---|--|--|
| Mustard<br>(continued)        | Wireworms   | 6-8 tbs:/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.  |
|                               | Aphids, Dipterous Leafminers,<br>Damondback Moths,<br>Imported Cabbageworms | 1/2-1 lb./A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest.   |
|                               |   |  | Note: Diazinon will not control organophosphate-<br>resistant leafminers.  |
| Onions<br>(Bulb and<br>Green) | Onion Maggats   | 4-8 lbs./A<br>or<br>11/2-3 oz./                    | Broadcast just before planting and mix into the top<br>3-4 inches of soil. (See Soil Incorporation Note.)  |
| Citating                      |   | 1,000 sq. ft.                                      | Note: Diazinon will not control organophosphate-<br>resistant onion maggots.   |
|                               | Onion Thrips  | 1 fb./A<br>or<br>2/5 02./                          | Apply as thrips appear. Repeat after 7 days, if necessary. Do not make more than 3 applications per season.  |
|                               | <u> </u>  | 1,000 sq. ft.                                      | Do not apply within 14 days of harvest or illegal residues may occur.  |
|                               | Wreworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and Immediately incorporate into the top 4-8 inches of soil.  |
| Parsley                       | Cutworms  | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)   |
|                               | Wreworms  | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.  |
| Parsnips                      | Acrids, Flea Beetles,<br>Dicterous Leafminers                               | 1/2-1 lb./A<br>or<br>1/5-2/5 oz./                  | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  |
|                               |   | 1,000 sq. ft.                                      | Do not apply within 14 days of harvest or illegal residues may occur.  |
|                               |   |  | Note: Diazinon will not control organophosphate-<br>resistant leafminers.  |
| Peas<br>(succulent<br>only)   | Curworms  | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)   |
|                               | Wrawoms   | 6-8 lbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.   | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)   |
|                               | Apriids, Dipterous Leafminers   | 3/4-1 lb/A<br>or<br>3/10-2/5 OZ./<br>1,000 sq. ft. | Apply as insects occur. Repeat application, as necessary every 5 days. Do not make more than 3 applications per season. To avoid lilegal residues, allow a minimum of 7 days between the last application and harvest. |
|                               |   |  | Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay.  |

Notes: (1) Diazinor will not control organophosphate-resistant leatminers. (2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.

| Peppers | Curworms   | 4-6 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)   |  |  |
|---------|--|--|--|--|--|
|         | Mole Crickets 2 fbs:/A or 3/4 0z./ 1,000 sq. ft. |  | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.  |  |  |
|         | Wreworms   | 6-8 lbs:/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.  |  |  |
|         | Acrids, Serpentine Leatminers                    | 1/z lb./A<br>or<br>1/s oz./<br>1,000 sq. ft.     | Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur. |  |  |
|         |  |  | Note: Diazinon will not control organophosphate-<br>resistant leafminers.  |  |  |

| Crop         | Pests  | Rate  | Timing/Special Directions   |
|--------------|--|---|---|
| Potatoes     | Cutworns (Surface and Subterrarean)                                      | 4-8 lbs./A<br>or<br>1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft. | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|              | Southern Potato Wireworms<br>(Southeastern U.S.)                         | 4-8 lbs./A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.              | For potatoes grown on mineral soils in the Southeast, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.                 |
|              | Applies Fea Beetles,<br>Colorace Potato Beetles,<br>Diptercus Leafminers | 1/2-3/4 lb./A<br>or<br>1/5-3/10 02./<br>1,000 sq. ft.         | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur. |
|              |  |   | Note: Diazinon will not control organophosphate-<br>resistant leafminers.   |
|              | Banded Cucumber Beetles,<br>Leafhoppers,<br>Southern Armyworms           | 3/4-1 fb./A<br>or<br>3/10-2/5 0Z./<br>1,000 sq. ft.           | Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.  |
| Note: Do no: | use on commercially grown potatoe  | s which will be har   | nd-harvested.   |
| Radishes     | Cutworms   | 4-8 tbs/A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.               | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|              | Male Croxets   | 2 fbs./A<br>or<br>3/4 02./<br>1,000 sq. ft.                   | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|              | Wirewortis   | 6-8 tbs./A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.              | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|              | Aphics Fea Beetles,<br>Dipterous Leafminers                              | 1/2-1 lb./A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft.            | Apply as insects occur. Repeat application, as necessary, up to 3 times, with a minimum of 7 cays between applications.   |
|              | ;<br>!   | 1,000 sq. n.  | Do not apply within 14 days of harvest, or illegal residues may occur.  |
|              | 1  | }   | Note: Diazinon will not control organophosphate-<br>resistant leafminers.   |
| Rutabagas    | Cutworts   | 4-8 lbs/A<br>or<br>11/2-3 oz./<br>1,000 sq. ft.               | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)  |
|              | Mole Croxets   | 2 tbs:/A<br>or<br>3/4 oz./<br>1,000 sq. ft.                   | One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.   |
|              | Wire=orns  | 6-8 lbs/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.               | Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.   |
|              | Aphics. Fiea Beetles,<br>Dipterous Leafminers                            | 1/2-1 tb./A<br>or<br>1/5-2/5 oz./<br>1,000 sq. ft.            | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.  Do not apply within 14 days of harvest, or illegal.                  |
|              |  | ļ   | residues may occur.  Note: Diazinon will not control organophosphate-<br>resistant leafminers.  |
| Spinach      | Aphics. Cipterous Leafminers   | 1/2-1 lb/A<br>or<br>1/5-2/5 02./<br>1,000 sq. ft.             | Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.   |
|              |  | .,  | Do not apply within 14 days of harvest.  Note: Diazinon will not control organophosphate- resistant leafminers.   |
|              |  |   | continued   |

| Сгор              | Pests   | Rate   | Timing/Special Directions  |
|-------------------|---|--|--|
| Squash,<br>Summer | Cutworms  | 4-8 lbs./A<br>or                                       | Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.) |
|                   |   | 1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft.              |  |
|                   | Wireworms   | 6-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or   | incorporate into the top 4-8 inches of soil.   |
|                   |   | 2 <sup>1</sup> /4-3 oz./<br>1,000 sq. ft.              |  |
|                   | Aphids, Leafminers,                               | 1/2-11/2 lbs./A  | Apply as insects occur. Repeat application, as necessary   |
|                   | Thrips, Striped Cucumber                          | or   | every 7 days. Do not make more than 5 applications per   |
|                   | Beetles, Melonworms,<br>Leafhoppers, Spider Mites | 1/5-3/5 OZ./<br>1,000 sq. ft.                          | season. Do not apply within 7 days of harvest, or illegal residues may occur.                            |
|                   | Ceanoppers, Opioor Miles                          | 1,000 34.16.   | Note: Diazinon will not control organophosphate-   |
| _                 |   | _  | resistant leafminers.  |
| Squash,           | Cutworms  | 4-8 lbs./A   | Broadcast just before planting and immediately   |
| Winter            |   | or<br>11/2-3 oz./                                      | incorporate into the soil. (See Soil Incorporation Note.)  |
|                   |   | 1,000 sq. ft.  |  |
|                   | Wireworms   | 6-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or<br>21/4-3 oz./                                      | incorporate into the top 4-8 inches of soil.   |
|                   |   | 1,000 sq. ft.  |  |
|                   | Aphids, Leafminers,                               | 1/2-11/2 lbs./A  | Apply as insects occur. Repeat application, as necessary   |
|                   | Thrips, Striped Cucumber                          | or   | every 7 days. Do not make more than 5 applications per   |
|                   | Beetles, Melonworms,<br>Leafhoppers, Spider Mites | 1/5-3/5 oz./<br>1,000 sq. ft.                          | season. Do not apply within 3 days of harvest, or illegal residues may occur.                            |
|                   |   | 1,000 04.1   | Note: Diazinon will not control organophosphate-   |
|                   |   | ł  | resistant leafminers.  |
| Sweet Corn        | Cutworms  | 4-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or<br>11/2-3 02./                                      | incorporate into the soil. (See Soil Incorporation Note.)  |
|                   |   | 1,000 sq. ft.  |  |
|                   | Seed Corn Maggots                                 | 4-8 tbs./A   | Broadcast just before planting and immediately   |
|                   |   | or<br>41/2 0 and                                       | incorporate into the top 2 inches of soil.   |
|                   |   | 1½-3 oz./<br>1,000 sq. ft.                             |  |
|                   | Wireworms   | 6-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or   | incorporate into the top 4-8 inches of soil.   |
|                   | 1   | 2 <sup>1</sup> /4-3 oz./<br>1,000 sq. ft.              |  |
|                   | Corn Earworms                                     | 2-21/2 lbs./A  | Apply when silks first appear. Repeat application every  |
|                   |   | or   | 7 days, up to a maximum of 5 applications, if necessary.   |
|                   |   | 3/4-1 oz./<br>1,000 sq. ft.                            |  |
|                   | Corn Leaf Aphids                                  | 1-2 lbs/A  | Apply in sufficient water to provide complete coverage   |
|                   |   | ог   | to the upper portions of the plants. Repeat in 7 days, if  |
|                   |   | <sup>2</sup> /s- <sup>3</sup> /4 OZ./<br>1,000 sq. ft. | necessary. Do not make more than 5 applications per season.  |
|                   | Grasshoppers, Spider Mites,                       | 1 fb./A  | Apply as insects occur. Repeat if necessary, but do not  |
|                   | Fleabeetles                                       | or   | make more than 5 applications per season.  |
|                   | i   | <sup>2</sup> /s oz./<br>1,000 sq. ft.                  |  |
|                   | Sap Beetles                                       | 2-21/2 lbs./A  | Consult local agricultural authorities for proper timing of  |
|                   | Sap Decaes  | OF   | application. Repeat application in 7 days, if necessary.   |
|                   |   | 3/4-1 oz./   | Do not make more than 5 applications per season.   |
| Notes: (1) To     | noted here do not apply foliady                   | to comp during the                                     | pollen shed period. (2) Allow a minimum of 7 days between  |
|                   |   |  | e picked 7 days after the last application.  |
| Sweet             | Wireworms   | 6-8 lbs./A   | Broadcast just before planting and immediately   |
| Potatoes          |   | or<br>21/4-3 oz/                                       | incorporate into the top 4-8 inches of soil.   |
|                   |   | 1,000 sq. ft.  | 1  |
| Swiss<br>Chard    | Cutworms  | 4-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or   | incorporate into the soil. (See Soil Incorporation Note.)  |
|                   |   | 11/2-3 oz./<br>1,000 sq. ft.                           |  |
|                   | Wireworms   | 6-8 lbs./A   | Broadcast just before planting and immediately   |
|                   |   | or   | Incorporate into the top 4-8 inches of soil.   |
|                   | ļ   | 2 <sup>1</sup> /4-3 oz./<br>1,000 sq. ft.              |  |
|                   | Aphids, Corn Earworms,                            | 1/2-1 lb./A  | Apply as insects occur. Repeat application, as   |
|                   | Imported Cabbageworms,                            | or   | necessary, up to 5 times, with a minimum of 7 days   |
|                   | Diamondback Moths,                                | 1/5-2/5 OZ./   | between applications.  |
|                   |   |  |  |
|                   | Harlequin Cabbagebugs                             | 1,000 sq. ft.  | Do not apply within 14 days of harvest or illegal residues may occur.                                    |

| Crop                           | Pests  | Rate   | Timing/Special Directions  |  |
|--------------------------------|--|--|--|--|
| Tomatoes                       | Cutworms   | 4-8 lbs/A<br>or<br>1 <sup>1</sup> /2-3 oz./<br>1,000 sq. ft. | Broadcast just before planning and immediately incorporate into the ad. (See Soi Incorporation Note.)  |  |
|                                | Mole Crickets  | 2 lbs./A<br>or<br>3/4 oz./<br>1,000 sq. ft.                  | One to two days bette planting, troadcast and immediately incorporate into the top 1-2 inches of soil.   |  |
|                                | Wireworms  | 6-8 lbs/A<br>or<br>21/4-3 oz/<br>1,000 sq. ft.               | Broadcast just before standing and immediately incorporate into the to 4-8 immediately soil.   |  |
|                                | Aphids, Dipterous Leafminers   | 1/2 lb/A<br>or<br>1/5 oz/<br>1,000 sq. ft.                   | Apply as insects access. Repleas schication after 7 days, if necessary. Do not nake more than 5 applications per season. Do not access within one day of harvest or illegal residue may occur. |  |
|                                | Banded Cucumber Beetles,<br>Fall Armyworms,<br>Southern Armyworms,<br>Beet Armyworms | 3/4-1 lb/A<br>or<br>3/10-2/5 oz/<br>1,000 sq. ft.            | Note: Diazinon will no control organophosophate-<br>resistant leatminers   |  |
|                                | Vinegar Flies ( <i>Drosophila</i> spp.)  | 1/2-11/2 lbs:/A<br>or<br>1/5-3/5 oz./<br>1,000 sq. ft.       |  |  |
| Turnips<br>(Roots and<br>Tops) | Cutworms   | 4-8 lbs/A<br>or<br>11/2-3 oz/<br>1,000 sq. ft.               | Broadcast just before training and immediately incorporate into the sp. (See Soil incorporation Note.)   |  |
|                                | Mole Crickets  | 2 tbs/A<br>or<br>3/4 oz/<br>1,000 sq. ft.                    | One to two days twice clariting creadcast and immediately incorporation the total 1-2 inches of soil.  |  |
|                                | Wireworms  | 6-8 lbs/A<br>or<br>21/4-3 oz./<br>1,000 sq. ft.              | Broadcast just before training and immediately incorporate into the ED 4-8 intotes of soil.  |  |
|                                | Aphids, Flea Beetles,<br>Dipterous Leafminers  | 1/2-1 lb/A<br>or<br>1/s-2/s oz/<br>1,000 sq. ft.             | Apply as insects come. Repeat addication, as necessary up to 3 times, with a minimum of 7 days between applications.  Do not apply serior 14 tays of transition illegal                        |  |
|                                |  |  | residues may occur  Note: Diazinon will না সামান্য সামান্য সামান্য সামান্য<br>resistant leafminers.  |  |

# MUSHROOM HOUSES

### Mushroom flies (Phorids and Sciarids)

Mix 4-5 lbs. of D-z-n diazinon 50W in 50 gals. of water and spray on outside and inside weals. toors and substocards of mushroom houses after compost has been pasteurized by heating. Also spray over the plastic covering the beds and mays after spawning. Note: Do not spray the compost. To avoid illegal residues, do not apply more than 3 applications to mushroom houses per crop.

### SEED TREATMENT - PLANTER BOX TREATMENT

In the planter box, mix with seed as a dry mixture. Stir slightly, using a mixing stick. DO NOT NOX WITH EARE HANDS. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do nox some excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water.

Notes: (1) If seed has not been treated with a fungicide, use an EPA-registered fungicide in ambination with D-z-rr diazinon 50W at rates indicated on the fungicide package. Fallure to use a fungicide may result in injury to the seed. (2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the partier, The call of graphite per bushel seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed seed with the treated seed. (3) Treated seed must not be used for or mixed with lood or animal feed or processed for oil.

#### Corn

Seedcorn Beetle: Mix 3 oz. per bushel of seed.

Corn, Succulent Peas, and Succulent Beans

Seedcorn Maggot: Mix 1/2 oz. per bushel of seed.

### FIELD CROPS

#### REI - 24 Hours.

Soil and foliar applications of D-z-n diazinon 50W should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season:

# Pre-Harvest Intervals (PHI\*) For Foliar Applications

| Сгор        | PHI* |
|-------------|------|
| Hops        | 14   |
| Sugar Beets | 14   |

<sup>\*</sup>PHI = Pre-Harvest Interval or the number of days to wait between the last application and harvest.

| Crop        | Pests   | Rate       | Timing/Special Directions  |
|-------------|---|------------|--|
| Hops        | Aphids, Spider Mites                              | 2 lbs./A   | Apply as pests occur. Repeat application, if necessary in 14 days. Do not make more than 4 applications per season or apply within 14 days of harvest or illegal residues may occur. |
| Sugar Beets | Wireworms   | 6-8 lbs/A  | Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil.  |
|             |   |            | Do not apply more than 8 lbs. of this product to the soil cer season.  |
|             | Beet Leafhoppers, Dipterous<br>Leafminers, Aphids | 3/4-1 1b/A | Appy as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications.  |
|             |   | i<br>I     | Do not apply within 14 days of harvest.  |
|             |   |            | Note: Diazinon will not control organophosphate-<br>resistant leafminers.  |
|             | Grasshoppers                                      | 1 lb./A    | Appy as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications.  |
|             |   |            | Do not apply within 14 days of harvest.  |

Note: Sugar beet tops may be fed to beef and dairy animals.

### **GRASSLAND INSECTS**

### Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply 3/4-1 lb./A in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Do not graze or use treated grass for food or feed.

### LIVESTOCK INSECTS

#### Sheep "Ticks" (Keds), Lice

High gallonage, high pressure spray: Mix 1/2 to. in 100 gals. of water, and acroly at the πere of 1 gal. per animal.

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 pt. per animal.

Sprinkler Can: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top, and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

# FLY CONTROL IN LIVESTOCK STRUCTURES

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and coultry houses).

Residual Sprays: Remove animals from buildings or corrals prior to treatment and keet animals out for at least 4 hours. Mix 2 lbs. of D-z-n diazinon 50W in 25 gals, of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loading sheds, and other farm buildings, except poultry houses, tairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly Longer rescual control may be obtained by increasing the rate to 4 lbs, in 25 gals, of water. Applications should be made to point of runoff. One gal, of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as Ty populations warrant.

Balt Sprays: Mix the appropriate amount of D-z-n diazinon 50W with 1 to of sugar set 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix 1/2 lb. with the sugar in 21/2 gals. of water and suct treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For sprinkling can application, mix 2 oz. with the sugar in 5 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in adible product areas of feed processing plants or other areas where feed is commercially prepared or processed. Do not use in owellings.

# INSECT CONTROL ON ORNAMENTALS

#### REI - 12 hours.

To control certain insects on omamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Crab Apple, Dogwood, Douglas Fir, Elm, Euonymus, Gladioli, Hawthorn, Holly, Honey Locust, Honeysuckle, Juniper, Lilac, Lily, Locust, Maple, Marlgold, Oak, Pansy, Petunia, Pine, Omamental Plum, Poplar, Rhododendron, Rose, Scotch Pine, Spirea, Spruce, Sycamore, Wax Plant (Hoya), Wilkow, Yellowwood and Yew, apply the recommended rates indicated below. Apply when pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

Note: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur.

|   |                           | nt of D-z-n<br>n 50W to Use |
|---|---------------------------|-----------------------------|
| Insects   | Rate per<br>3 gals. water | Rate per<br>100 gals, water |
| Aphids, Bagworms. Carnation aud Mittes, Carnation Shoot Mittes, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holfy Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaftlers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San José, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies | ¹/2 oz.                   | 1 tb.                       |
| Apple-and-Thorn Skeletonizers. Cotoniaster Webworms, European Pine Sawfly, Fall Webworms, Hamlock Chemies, Oak Loopers, Obliquebanded Leafrollers, Pear Stugs, Tent Caterpillars  | 11/2 OZ.                  | 3 lbs.                      |

Mimosa Webworms: Mix 1/2 cz. in 3 gals. of water (or 1 lb. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4 to 5-week intervals.

# LAWN PEST CONTROL (EXCLUDING SOD FARMS AND GOLF COURSES)

Precautions: Birds especially waterfowt, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory facits of certain waterfowt, 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, especially waterfowt. Avoid overlapping sprays. If waterfowt (ducks or geese) can be expected to enter treated area after reatment (except spot treatments), water lawn with at least 1/4 inch of water immediately after application; however, stop irrigator before publing occurs.

To control pests listed below, actily specified rates. Repeat as necessary.

|   | Rate/1,000 sq. ft.                    |          |  |  |
|---|---------------------------------------|----------|--|--|
| Pests   | Amount<br>of D-z-n<br>diazinon<br>50W | Water    | Remarks  |  |
| Lawn Chinch Bugs  | 2-3 oz.                               | 3 gals.  | Use higher rate for longer residual control and in turf-<br>grass of dense growth, such as St. Augustine.  |  |
| Ants, Armyworms. Eermudagress Mites.<br>Clover Mites, Springtalis (Collembola),<br>Crickets, Cutworms. Digger Wesps, Earwigs.<br>Frit Files, Lawn Bilbugs, Leafroppers, Soci<br>Webworms (Lawr. Moths), Sowougs | 2-3 oz.                               | 3 gais.  | Spot spray ant hills and wasp ground nest openings. For digger wasps, apply product at dusk when wasps are not active. For fit flies, before treatment mow grass and water |  |
| (Pillbugs)  |                                       | <b>.</b> | well, but delay application until grass is dry.  |  |
| Brown Dog Ticks, Chiggers, Flees  | 3 oz.                                 | 3 gals.  | For brown dog ticks, spray grass and under shrubbery.  |  |
|   | ]                                     | ]        | Note: Do not apply to animals.   |  |
| Hyperodes Weevis  | 3 oz.                                 | 3 gals.  | Treat problem areas in mid-April and again in mid-May.   |  |
| Millipedes  | 3 oz.                                 | 3 gals.  |  |  |
| Rhodesgrass Scales  | 3 oz.                                 | 3 gats.  | Apply when crawlers first emerge.  |  |
| White Grubs such as Japanese Beetle<br>Larvae, European Chater, Southern Chater   | 3 oz.                                 | 3 gals.  | Apply any time between late July and early October.  |  |

### Nuisance Pests in Outside Areas

|   | Rate/1,0                              | XXX sq. ft. |   |
|---|---------------------------------------|-------------|---|
| Pests   | Amount<br>of D-z-n<br>diazinon<br>50W | Water       | Remarks   |
| Ants, Boxelder Bugs, Brown Dog Ticks,<br>Chiggers, Clover Mites, Cockroaches,<br>Crickets, Earwigs, Fleas, Flies, Millipedes,<br>Sowbugs (Pillbugs), Spiders, Springtails | 3 oz.                                 | 3 gals.     | Spray window and door screens, silts, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.                                  |
| (Collerabola)   |                                       |             | To prevent these pests from entering the house, spray a 5-ft, band of ground around the house next to the foundation, and spray the foundation of the house to a height of 2-3 ft. Repeat application as necessary. |
|   |                                       |             | Note: Do not apply to animals. Do not apply to plants (except tree trunks as noted above) at this nuisance pest rate.   |
| Fire Ants   | 2 tea-<br>spoons                      | None        | Evenly apply this product in its dry, undiluted state over each fire ant mound.   |
|   | 1 oz.                                 | ∄ gals.     | Apply 1 gal. of solution to each mound by sprinkling the mound and the immediate surrounding area until wet. Apply gently to avoid distributing ans.  |
|   |                                       |             | Note: For best results, apply in cool weather (60-80°F), or in early morning or late afternoon when the ants are most active. Treat new mounds as they appear.  |

# STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. To avoid harming equatic organisms in rivers and other surface waters, do not pour spray mixture or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example, street drains). If pesticide, spray mixture, or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated or this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

# **PRECAUTIONARY STATEMENTS**

### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Avoid contamination of food and feed. Food utensits, such as teaspoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Be sure to read and follow "Work Safety Rules" and Worker Protection precautions appearing in this booklet.

# Statement of Practical Treatment

This product is an organophosphate.

If swallowed: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomitting by touching back of 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. Apply artificial respiration if indicated. Get medical attention.

If on sidn: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

If in eyes: Flush eyes with plenty of water, Call a physician firritation persists.

Note to Physician: 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.

### Personal Protective Equipment

Applicators and other handlers must wear:

- . Long-sleeved shirt and long pants
- · Shoes plus socks
- Waterproof gloves

Follow manufacturer's instructions for cleaning/maintaining FPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundary.

### **User Safety Recommendations**

### Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

# **Engineering Control Statements**

When handlers use closed systems, enclosed cabs, or alreraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### 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 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. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and 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.

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