

AUG 13 1990

James Armbruster, Ph.D.  
Acme Division  
PBI/Gordon Corporation  
P.O. Box 4090  
1217 West 12th Street  
Kansas City, MO 64101

Subject: Amendment - Revise per Diazinon Registration Standard  
and the Agency's May 1, 1990 Data Call-In letter  
to reflect only those uses supported by Ciba-Geigy  
Acme Diazinon 25% Emulsifiable Concentrate  
EPA Reg. No. 33955-556  
Your submission received June 12, 1990

Dear Dr. Armbruster:

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided the following revision is made prior to release for shipment under the amended labeling:

- 1) In the Ingredients Statement, add an asterisk after "Inert Ingredients" to refer down to a footnote underneath the ingredients statement which should read "Contains xylene range aromatic solvent". [Do not print the quotation marks on your label.]
- 2) In the "Environmental Hazards" text, add a comma in the second sentence, so that it reads: "Birds, especially waterfowl, feeding or drinking on treated areas may be killed." Also, it appears that part of the seventh sentence has been omitted. This sentence should appear as:

Where irrigation (watering) is recommended in the directions, or if waterfowl, i.e. ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product.

- 3) Since you are using "Tbsp." in the rate tables, it might be useful in the "HOW TO MIX AND APPLY" section to indicate the first conversion as:

1 tablespoon (1 Tbsp.) = 3 teaspoons

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- 4) In the column labeled "Water" for lawn chinch bugs directions, move the "24 gals." down one line to align with " 6 fl. ozs."
- 5) In the Ants, etc. grouping, correct the pest name "Fruit Flies" to read "Frit Flies" in both the "Pests" column and the "Remarks" column.
- 6) In the newly revised directions for "Nuisance Pests in Outside Areas", delete "and ceilings" from "porch and patio walls and ceilings". Such use, especially if applied to runoff, could result in pesticide "raining" down on the applicator and into the eyes (even behind the recommended safety glasses), an especially inadvisable situation for a pesticide which can cause "substantial but temporary eye damage".
- 7) In the "Insects" column for the site "Trees & Shrubs" (on page 8), correct the spelling of "Euonymus" in the "Scale Crawlers" listing.
- 8) In the directions for "Roses & Flowers", correct the spelling of "Euonymus Scale" in the "Insects" column.
- 9) For caneberry crops, in the column "Crop", revise the first lines to read: "Caneberries (CA, OR, WA only): ". Also, in the "Pest" column for these crops, revise "Twospotted Mites" to "Twospotted Spider Mites".
- 10) For the crop "Strawberries", in the "Pest" column, revise "Twospotted Mites" to "Twospotted Spider Mites".
- 11) In the second introductory paragraph under the heading "Vegetable Crops" ("Observe stated time ...") add "Do not apply to food crops grown in a greenhouse."
- 12) The "Pest" column for the "Vegetable Crops" table should be at least one character wider to allow for the insertion of a comma after "Cabbageworms" for the crops "Broccoli" and "Cabbage", and after "Grasshoppers" for the crop "Sweet Corn".
- 13) In the "Pest" column for the crop "Radishes", revise "Imported Cabbage Worm" to "Imported Cabbageworms".

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. NOTE: When preparing your label, do not print the quotation marks that appear around revised text items specified in this letter.

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

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

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

**ACME (R) DIAZINON 25% EMULSIFIABLE CONCENTRATE**

**LAWN & GARDEN INSECT CONTROL**

<u>Protects</u>	<u>Controls</u>
Lawns	Ants, Aphids
Vegetables	Chinch Bugs
Fruits & Nuts	Cutworms
Roses	Fire Ants*
Flowers	Flea Beetles
Trees	Grubs, Mites
Shrubs	Sod Webworms
	and many others

\* Aids in control.

**ACTIVE INGREDIENT:**

Diazinon [O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate].....	25.0%
INERT INGREDIENTS.....	75.0%
<b>TOTAL</b>	<b>100.0%</b>

Spray concentrate. Contains diazinon insecticide.

**KEEP OUT OF REACH OF CHILDREN**

**W A R N I N G**

See side panels for Precautionary Statements and Statement of Practical Treatment.

NET CONTENTS 8 OUNCES

905/590 AP  
EPA REG NO 33955-556  
EPA EST NO XXXX-XX-X

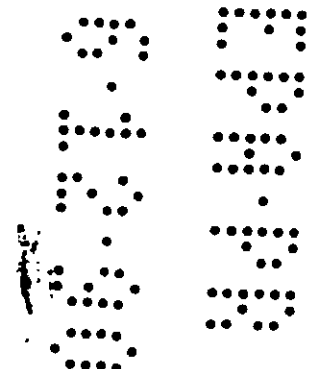
DISTRIBUTED BY ACME DIVISION  
PBI/GORDON CORPORATION  
KANSAS CITY, KANSAS 66118

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

**AUG 13 1990**

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

**33955-556**



**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

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

**Statement of Practical Treatment:**

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

**IF IN EYES:** Rinse eyes with plenty of water and call a physician immediately.

**IF ON SKIN:** Wash promptly with soap and water. Rinse thoroughly.

**IF INHALED:** Remove victim to fresh air and apply artificial respiration if indicated.

**NOTE TO PHYSICIAN:** Product contains an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if material was taken internally.

**Environmental Hazards:** This pesticide is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended in directions or if water-

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after treatment (except spot treatment), apply a minimum of 0.25 inch of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

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

**Physical or Chemical Hazards: DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME**

**DIRECTIONS FOR USE:**

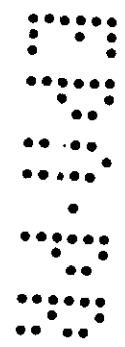
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

General Information

Acme Diazinon 25% Emulsifiable Concentrate must be diluted with water before application. Refer to the section "How to Mix and Apply." This product kills many outdoor insects which damage lawns, roses, flowers, trees, shrubs, vegetables, fruits and nuts, and insects which annoy pets and people. Contains diazinon insecticide which provides positive control of many "hard-to-kill" sucking and chewing insects. Acme Diazinon 25% Emulsifiable Concentrate works fast and applications should be repeated only as directed to maintain control.

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

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



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## STORAGE & DISPOSAL

**STORAGE:** Store in original container in a locked storage area inaccessible to children or pets. Do not store near heat or open flame. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

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

## HOW TO MIX AND APPLY

1. Determine size of spraying job. For lawns and vegetables measure the area to be sprayed. For all other applications, apply as a thorough cover spray. Make applications when insects first appear. Application should be repeated only as directed to maintain control.
2. Use clean sprayer. Carefully measure and mix the amount of Diazinon and water as suggested in the chart.
3. Spray as directed in the rate chart. Thorough coverage is important. Flush sprayer with clean water after each use.

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

6 fl. oz. = 3/4 cup

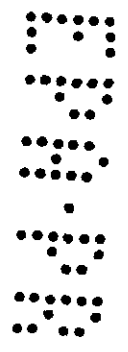
2 tablespoons in 3 gals. of water = 2 teaspoons in 1 gal. of water or 6 oz. in 18 gals. of water.

## Lawn Pest Control

Use on Bentgrass, Bermudagrass, Bluegrass, Dichondra, Fescue, Merion and St. Augustine grass.

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

Pests	Rate		Remarks
	Diazinon 25% Emulsifiable	Water	
Lawn Chinch Bugs	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying. In the North, if Chinch Bugs are the only problem, a lower rate of application can be used: 3 tsp. in 3 gals. of water covers 125 sq. ft. or 4 fl. ozs. in 24 gals. of water per 1,000 sq. ft.
Ants, Armyworms, Bermudagrass Mites, Clover Mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Fruit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (Pillbugs).	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet down grass a few hours before applying. For ants and digger wasps, spot spray ant hills and wasp ground nest openings. For digger wasps, apply at dusk, when wasps are not active. For Fruit Flies, mow grass and water well before treatment, but delay application until grass is dry. Billbug control: Apply when activity is first observed or when chewed or brown grass is present indicating damage from the insect.
Brown Dog Ticks, Chiggers, Fleas	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Note: Do not apply to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.





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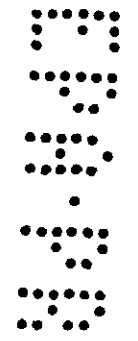
<b>Millipedes</b>	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Thoroughly wet grass a few hours before applying.
<b>Rhodesgrass Scales</b>	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Apply when crawlers first emerge.
<b>White Grubs of Japanese Beetle, European Chafer, Southern Chafer</b>	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Water grass thoroughly after application. Grub control: Apply any time between late July and early October.
<b>Hyperodes Weevil</b>	1½ Tbsp. per 125 sq. ft. or 6 fl. ozs. per 1,000 sq. ft.	3 gals.  24 gals.	Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

Nuisance Pests in Outside Areas

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

Mix 6 fl. ozs. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls and ceilings, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.

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

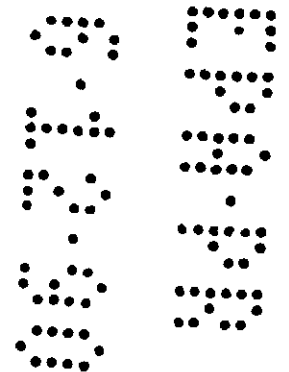


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**Fire Ants:**

To aid in the control of fire ants in lawns and other recreation areas, apply 1 fl. oz. (2 tbsp.) in a minimum of 1 gallon of water as a drench. Apply over and 6 inches around each mound. Apply gently to avoid disturbing ants. Reapply as necessary. Larger quantities of solution can be prepared for multiple mound treatments. Use equipment capable of delivering the diluted products as a gentle rain at the rate of 1 gallon per mound. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness.

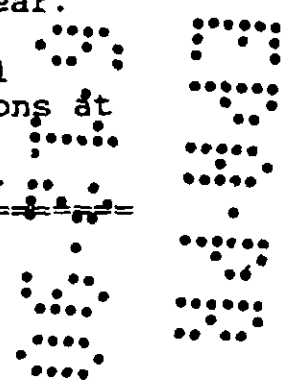
NOTE: For best results apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.



Insect Control on Trees, Shrubs and Flowers

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Trees & Shrubs	Insects	Rate per 3 gals. of Water	Timing/Special Directions
Arborvitae, Azalea, Birch, Boxwood, Camellia, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Spruce, Willow	Aphids, Bagworms, European Pine Shoot Moths, Holly Bud Moths, Dipterous Leaf- miners (Arborvitae, Azalea, Birch, Boxwood, Holly, Oak), Leafhoppers, Mealybugs, Mites (Clover, Cyclamen, European Red, Privet, Twospotted Spider), Obscure Root Weevils, Omnivorous Leaf- tiers, Scale Crawlers, (Cottonycushion, Eynonymous, Lecanium, Pine Needle, Pit Scale, San Jose, Soft)	2 Tbsp.	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
Webworms (Juniper, Mimosa) Whiteflies	2 Tbsp.	Apply as a thorough foliar spray. Mimosa webworms: Apply as a thorough foliar spray when adults first appear. Make two additional applications at 4-5 week intervals.	



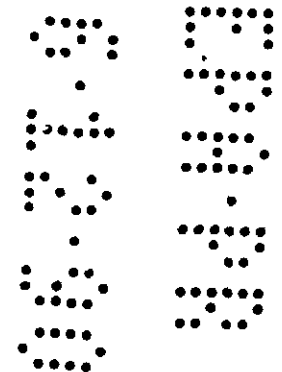
Insect Control on Trees, Shrubs and Flowers

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

Roses & Flowers

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

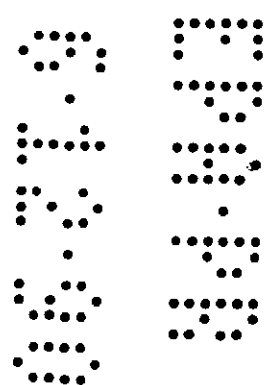
Start spraying after blooming. Applications should be made according to infestation or when aphids, mites, and crawler stages of scale insects are first noted.

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

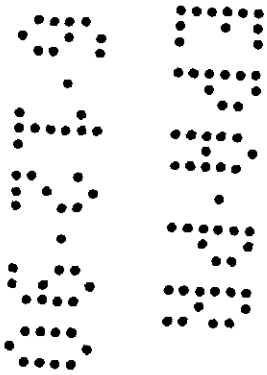
Crop	PHI*
Almonds	45
Apricots	10
Blackberries	7
Boysenberries	7
Cherries	10
Dewberries	7
Grapes	18
Loganberries	7
Nectarines	10
Peaches	20
Plums	10
Prunes	10
Raspberries	7
Strawberries	5
Walnuts	45

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

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



Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	Aphids, San Jose Scale, Parlatoria Scale, Spider Mites, Twig Borers	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season 14 days apart. Do not apply after husks open or split. Do not apply within 45 days of harvest. This product may be used on almonds only in California.
Apricots	Aphids, Apricot Mealybugs, Mites (Clover [brown], Twospotted Spider), Scale Crawlers (Olive, San Jose)	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 10 days of harvest.
Cane- berries (WA, OR, CA only) Black- berries, Boysen- berries, Dew- berries, Logan- berries, Rasp- berries	Aphids, Leaf- hoppers, Raspberry Fruitworms, Twospotted Mites, Thrips	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 5 gallons per 500 sq. ft. of field. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 7 days of harvest.  This product may be used on caneberries only in California, Oregon and Washington. Do not use this product on caneberries grown in other states.



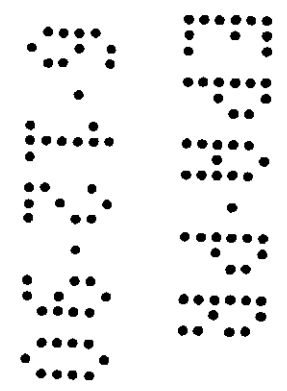
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Cherries	Black Cherry Aphids, Cherry Fruitworms, (Maggots), Fruittree Leaf- rollers, Mites (Cherry Rust), Scale Crawlers (San Jose)	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 10 days of harvest.
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Grapes	Aphids, Leaf- hoppers, Grape Berry Moths, Grape Leaf- folders	2 Tbsp. in 3 gals. of water.	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of vineyard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 18 days of harvest.
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Nectarines	Aphids, Mites (Clover [brown], Twospotted Spider) Scale Crawlers (Olive, San Jose)	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 10 days of harvest.
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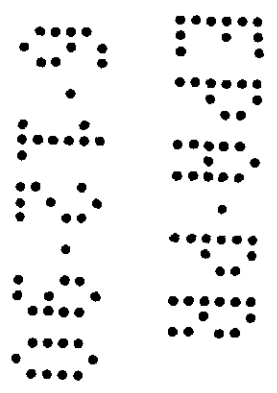
Peaches	Aphids, Mites (Clover [brown], Twospotted Spider) Scale Crawlers (Olive, San Jose)	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 14 days apart. Do not apply within 20 days of harvest.
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Plums and Prunes	Aphids, (Leafcurl Plum, Mealy Plum, Thistle), Mites (Clover, [brown], European Red)	2 Tbsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 5 applications per season a minimum of 7 days apart. Do not apply within 10 days of harvest.
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Strawberries	Aphids, Twospotted Mites, Strawberry Leafrollers	2 Tbs. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq. ft. of field. Do not make more than 3 applications per season a minimum of 7 days apart. Do not apply within 5 days of harvest.
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Walnuts (CA only)	Aphids, Scale Crawlers (Walnut, Italian pear, frosted) Spider Mites, Twig Borers	2 Tbsp. in 3 gals. of water	<p>Apply as a full cover spray. Do not apply more than 6 gallons per 500 sq. ft. of orchard. Do not make more than 3 applications per season 14 days apart. Do not apply after husks open or split. Do not apply within 45 days of harvest.</p> <p>This product may be used on walnuts only in California. Do not use this product on walnuts grown in other states.</p>
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**Vegetable Crops**

For foliar or soil applications, Diazinon 25% Emulsifiable Lawn and Garden Insect Control should be applied in the volume of water recommended in the table below to assure thorough coverage of the foliage or soil.

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

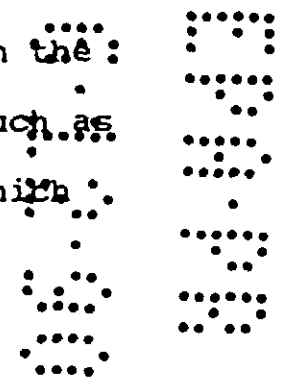
**Pre-Harvest Intervals (PHI\*)  
for Foliar Applications**

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

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

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

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



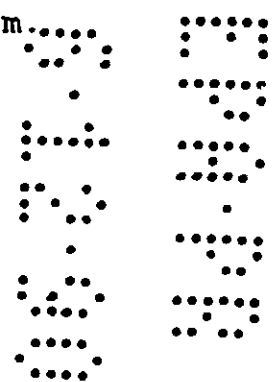
Vegetable Crops cont'd

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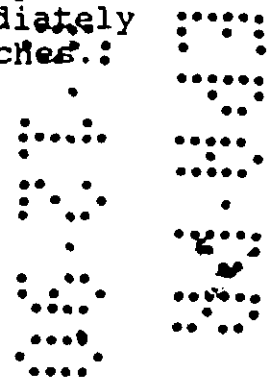
For application to the foliage, thoroughly spray all plant parts. Application to the soil should be mixed into the soil immediately after application.

Crop	Pest	Rate	Timing/Special Directions
Beans, Lima, Pole and Snap (succulent varieties only)	Aphids, Cucumber beetles, Grass- hoppers, Leafhoppers, Mexican Bean Beetles, Mites	2 Tbsp. in 3 gals. of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Do not apply within 7 days of harvest.
	Cutworms (surface, subter- ranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into the soil 1-2 inches.
	Wireworms (snap beans only)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.

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



Beets, Red (Table)	Cutworms (surface, subter- ranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Mole Crickets	2 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
Broccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 5 days of harvest.
Cabbage	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbageworms Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 5 days of harvest.
	Cutworms (surface, subter- ranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water.	Broadcast to the soil just before planting. Immediately work into the soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Root Maggots	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 3-4 inches.



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Wireworms	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
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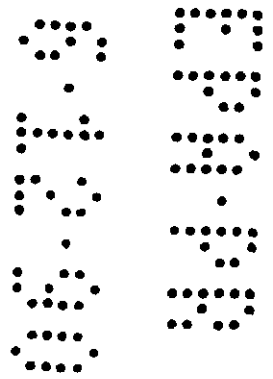
Carrots

Aphids, Flea Beetles, Leaf-hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat applications every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
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Cutworms (surface, subterranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into the soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
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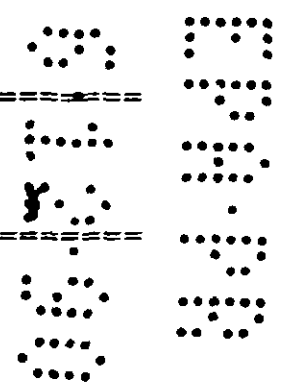
Mole Crickets	2 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into the soil 1-2 inches.
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Wireworms	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into the soil 4-8 inches.
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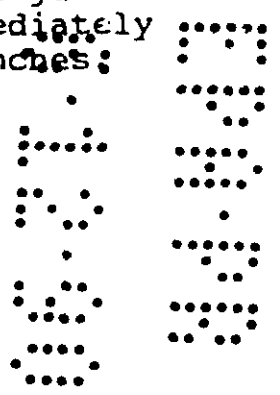


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Cauliflower	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 5 days of harvest.
Celery	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Chinese Proccoli	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Collards	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Corn (see sweet corn)			



Cucumbers	Aphids, Thrips, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.
Endive (Escarole)	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Kale	Aphids, Diamondback Moths, Flea Beetles, Imported Cabbage- worms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
Lettuce	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
	Cutworms (surface, subter- anean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
	Wireworms	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches:



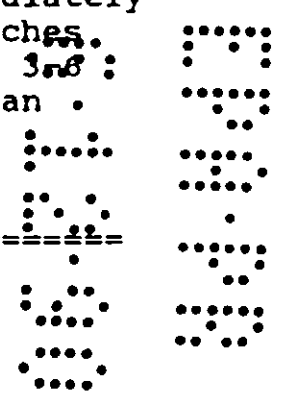
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Musk- melons, Persians and Hybrids of these) and Water- melons	Aphids, Thrips, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.
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Onions, Green and Bulb	Onion Thrips	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 3 applications per season. Do not apply within 10 days of harvest.
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Parsnips	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
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Peas (succulent only)	Aphids, Cucumber Beetles, Grass- hoppers, Leaf- hoppers, Mexican Bean Beetles, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Peas may be picked immediately after application.
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Cutworms (surface, subter- ranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
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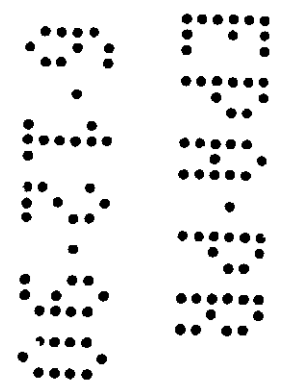
Mole Crickets	2 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil 1-2 days before planting. Immediately work into soil 1-2 inches.
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Wireworms	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
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Notes: 1) Do not apply this product to dried pea varieties such as split peas. 2) To protect bees, do not apply to pea foliage during the pollen shed period.

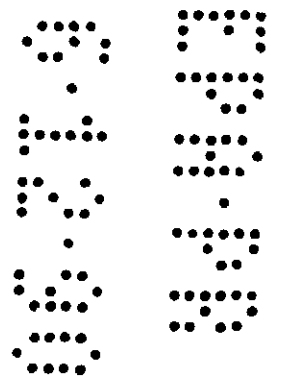
Peppers	Aphids, Colorado Potato Beetles, Flea Beetles, Leaf-hoppers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 5 days of harvest.
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Potatoes	Aphids, Flea Beetles, Leaf-hoppers, Colorado Potato Beetles, Southern Armyworms, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 35 days of harvest.  Note: Do not use on commercially-grown potatoes which will be hand-harvested.
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Radishes	Aphids, Flea Beetles, Leaf- hoppers, Imported Cabbage Worm Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
	Cutworms (surface, subter- ranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
Spinach	Aphids, Flea Beetles, Leaf- hoppers, Dipterous Leafminers, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do not apply within 10 days of harvest.
Squash, Summer	Aphids, Thrips, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 7 days of harvest.
Squash, Winter	Aphids, Thrips, Spider Mites	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.



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Sweet  
Corn

Aphids,  
Flea  
Beetles,  
Grasshoppers  
Spider Mites

2 Tbsp.  
in 3 gals  
of water  
to cover  
1,000 sq.  
ft. of  
garden

Thoroughly spray all plant  
parts. Repeat application  
every 7 days up to 5  
applications per season.  
Corn may be picked  
immediately following last  
application.

Cutworms  
(surface,  
subter-  
ranean)

6 Tbsp.  
per 500  
sq. ft.  
in a  
minimum  
of 1½  
gals. of  
water

Broadcast to the soil just  
before planting. Immediately  
work into the soil 2-3  
inches for surface cutworms,  
3-6 inches for subterranean  
cutworms.

Mole  
Crickets

2 Tbsp.  
per 500  
sq. ft.  
in a  
minimum  
of 1½  
gals. of  
water

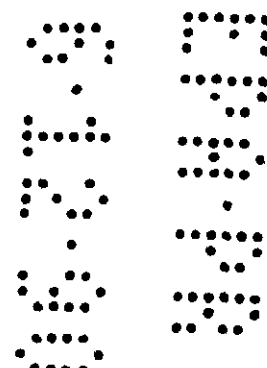
Broadcast to the soil 1-2  
days before planting.  
Immediately work into soil  
1-2 inches.

Wireworms

6 Tbsp.  
per 500  
sq. ft.  
in a  
minimum  
of 1½  
gals. of  
water

Broadcast to the soil just  
before planting. Immediately  
work into soil 4-8 inches.

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



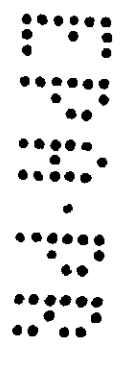
Tomatoes	Aphids, Colorado Potato. Beetles, Fall Armyworms, Flea Beetles, Leafhoppers, Southern Armyworms, Vinegar Flies (Drosophila spp.)	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days to 5 applications per season. Do apply within 1 day of harvest.
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Cutworms (surface, subterranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into the soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
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Wireworms	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 4-8 inches.
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Turnips and Turnip Tops	Aphids, Flea Beetles, Leafhoppers, Imported Cabbage Worm, Dipterous Leafminers	2 Tbsp. in 3 gals of water to cover 1,000 sq. ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 10 days of harvest.
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Cutworms, (surface, subterranean)	6 Tbsp. per 500 sq. ft. in a minimum of 1½ gals. of water	Broadcast to the soil just before planting. Immediately work into soil 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.
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**LIMITED WARRANTY.** Manufacturer warrants that the chemical composition conforms to the ingredient statement given on the label and that this product is suited for the labeled use when applied according to label directions. Because of widely varying use conditions, it is impossible to eliminate all risks even when label directions are followed.

**EXCLUSION OF OTHER WARRANTIES AND REMEDIES.** Except where such disclaimers and exclusions are specifically prohibited by applicable law. THE FOREGOING IS THE ONLY GUARANTEE OR WARRANTY APPLICABLE TO THIS PRODUCT AND IS GIVEN EXPRESSLY AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH WARRANTIES WHICH EXCEED OR DIFFER FROM SAID LIMITED WARRANTY ARE DISCLAIMED BY MANUFACTURER, and, upon Manufacturer's compliance with said limited warranty. BUYER SHALL HAVE NO REMEDY AGAINST MANUFACTURER FOR ANY TYPE OF DAMAGE OR LOSS, and, IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL DAMAGE OR LOSS.

