



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Craig Martens
PBI/Gordon Corporation
P.O. Box 014090
Kansas City, MO 64101

NOV 30 2001

Dear Mr. Martens:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Almonds;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source
Acme Diazinon 25% Emulsifiable Concentrate
EPA Registration Number 33955-556
Your submission dated June 18, 2001

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

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Revise the end of the front panel CONTROLS claim to read "... and many others as listed in Directions For Use."
 - b. In the Hazards to Humans and Domestic Animals text, revise "Avoid breathing vapor." to read "Avoid breathing vapor or spray mist." Also in this same section, revise "Do not use inside the home." to read "Do not use inside the home or in greenhouses."
 - c. In the Environmental Hazards, revise the beginning of the sentence "For lawns, where irrigation (watering) is..." to read "For lawns, where watering is...". Also in this same section, replace the sentence beginning "For terrestrial uses..." to read just "Do not apply directly to water."
 - d. In the Notes under the heading General Information, revise item "5" to read "Do not apply this product in greenhouses."

- e. In the Precautions under the heading Lawn Pest Control, revise the beginning of the sentence "Where irrigation (watering) is..." to read "Where watering is...".
 - f. In the table of Lawn Pests, revise "Lawn Chinchbugs" to "Lawn Chinch Bugs".
 - g. At the bottom of the Fruit and Nut PHI table, delete the footnote "**Dormant Spray Only". This referred to the now deleted use on almonds.
 - h. Throughout the Timing/Special Directions for Vegetables, replace the word "Broadcast" with "Spray the soil evenly".
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.
 4. Comply with all applicable provisions of the 2000 Memorandum of Agreement Regarding Pesticide Products Containing Diazinon (i.e., the Diazinon MOA). In accordance with the Diazinon MOA you have requested the following revisions to the conditions of registration for this diazinon product with outdoor non-agricultural (i.e., home and garden) uses:
 - a. You have requested under section 6(f) of FIFRA that this registration be voluntarily canceled on a date not later than December 31, 2004.
 - b. You may not manufacture, label, or release for shipment this product after June 30, 2003.
 - c. You may not sell or distribute this product after August 31, 2003.
 - d. The registration for this product shall expire and be canceled on December 31, 2004.
 - e. You will send to every person who directly purchases this product (i.e., to every seller) a notification of Product Recovery Program to be conducted by Syngenta and Makhteshim after December 31, 2004.

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

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

The Basic Confidential Statement of Formula (CSF) dated June 15, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

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THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS.
FOR OUTDOOR USE ON THE HOME LAWN AND THE HOME GARDEN ONLY.

ACME[®] DIAZINON 25% EMULSIFIABLE CONCENTRATE

LAWN & GARDEN INSECT CONTROL

PROTECTS: Lawns, Vegetables, Fruits & Nuts, Roses, Flowers, Trees, and Shrubs.

CONTROLS: Ants, Aphids, Chinch Bugs, Cutworms, Fire Ants*, Flea Beetles, Grubs, Mites, 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%

TOTAL 100.0%

**Contains aromatic petroleum distillates.
Spray concentrate. Contains diazinon insecticide.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panels for Precautionary Statements and First Aid.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
NOV 30 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
33955-556

NET CONTENTS: 8, 16, OR 32 FLUID OUNCES

905 APXXXXXX
EPA REG NO 33955-556
EPA EST NO 2217-KS-1

Manufactured by:





READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not use inside the home. Do not contaminate food or feed. Do not use on household pets or humans. Do not allow children or pets to go onto treated area until the treated area, such as grass or soil, has dried. Do not contaminate ornamental fish ponds. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

FIRST AID	
This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase.	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN:	This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine.

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. For lawns, where irrigation (watering) is recommended in 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 ¼ inch of water immediately after spraying this product; however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwater.

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.

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DIRECTIONS FOR USE

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

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

STORAGE & DISPOSAL

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.

DISPOSAL: To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains, (for example, toilets and sinks) or storm water sewers (for example, street drains). Triple rinse the empty container, pour the rinse water into the sprayer and spray the treated area. If disposal of a partially full container is necessary, take the container to your local household waste disposal facility, or make sure cap is tightly closed, securely wrap the container in several layers of newspaper and discard in trash. Do not reuse empty container; securely wrap it in several layers of newspaper and discard in trash.

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.

NOTES: 1) *USE CONTENTS WITHIN 6 MONTHS AFTER OPENING.* See "Storage and Disposal" Directions. 2) Do not use in the home. 3) Do not use on ferns, poinsettia, hibiscus, papaya, pilea, gardenia or orchids since injury may occur. 4) Use this product on succulent peas and beans Only. Do not use on dried pea or bean varieties. 5) Do not apply to food crops grown in greenhouses.

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

HOW TO MIX AND APPLY:

Step #1. Determine size of spraying job. For lawns and vegetables measure the area to be sprayed. For all other applications, apply as a thorough cover spray. Make applications when insects first appear. Application should be repeated only as directed to maintain control.

Step #2. Use clean sprayer. Carefully measure and mix the amount of Acme Diazinon 25% Emulsifiable Concentrate and water as suggested in the chart.

Step #3. Spray as directed in the rate chart. Thorough coverage is important. Flush sprayer with clean water after each use.

Measurement Conversions:

- 1 tablespoon = 3 teaspoons
- 1 fluid ounce = 6 teaspoons or 2 tablespoons
- 6 fluid ounces = ¾ cup
- 1½ tablespoons in 3 gallons of water = 1½ teaspoons in 1 gallon of water.
- 2 tablespoons in 3 gallons of water = 2 teaspoons in 1 gallon of water.

LAWN PEST CONTROL:

PRECAUTIONS: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York, between 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. 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 treatments), water lawn with at least ¼ inch water immediately after spraying this product; however, stop watering before puddling occurs.

Use on bentgrass, bermudagrass, bluegrass, dichondra, fescue, merion and St. Augustinegrass.

To control pests listed below, apply the recommended rates.

Pests	Rate, Diazinon 25% Emulsifiable	Water, Gallons	Remarks
Lawn chinchbugs	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	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.oz. in 24 gals. of water per 1,000 sq.ft.
Ants, armyworms, bermudagrass mites, clover mites, springtails (<i>Collembola</i>), crickets, cutworms, digger wasps, earwigs, frit flies, lawn billbugs, leafhoppers, sod webworms (lawn moths), sowbugs (pillbugs).	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	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 frit flies, mow grass and water thoroughly 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 Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	Note: Do not apply this product to animals. For brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes weevil	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	Treat problem areas in mid-April and again in mid-May. Water grass thoroughly after application.
Millipedes	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	Thoroughly wet grass a few hours before applying.
Rhodesgrass scales	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	Apply when crawlers first emerge.
White grubs of: • Japanese beetle • European chafer • Southern chafer	1½ Tbs. per 125 sq.ft. 6 fl.oz. per 1000 sq.ft.	3 24	Apply any time between late July and early October. Water grass thoroughly after application.

NUISANCE PESTS OUTSIDE THE HOME:

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (*Collembola*) - Mix 6 fluid ounces in 3 gallons of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.

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

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

Fire Ants - To aid in the control of fire ants in home lawns and other outdoor home recreation areas, apply 1 fluid ounce (2 tablespoons) 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 product 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 to 80°F, or in early morning or late evening hours. Treat new mounds as they appear.

INSECT CONTROL ON ORNAMENTAL TREES, SHRUBS, AND FLOWERS

Species	Insects	Rate per 3 gals. of water	Timing/Special Directions
Trees & Shrubs:			
Arborvitae, Azaleas, Birch, Boxwood, Camellias, Douglas Fir, Elm, Hawthorn, Holly, Juniper, Lilac,	Aphids, bagworms, European pine shoot moths, holly bud moths, dipterous leafminers (arborvitae, azalea, birch, boxwood, holly, oak), leafhoppers, mealybugs, mites (clover, cyclamen, European red, privet, two-spotted spider), obscure root weevils, omnivorous leaf tiers, scale crawlers, (cottoncushion, euonymus, lecanium, pine needle, pit, San Jose, soft)	2 Tbs.	Apply as a thorough foliar spray. Wet leaves and branches to the dripping point. Try to penetrate dense foliage with spray.
Locust, Maple, Mimosa, Oak, Pine, Ornamental Plum, Poplar,	Webworms (juniper, mimosa), whiteflies	2 Tbs.	Apply as a thorough foliar spray. Mimosa webworms: Apply as a thorough foliar spray when adults first appear. Make two additional applications at 4 to 5 week intervals.
Rhododendron, Spruce, Willow	Apple and thorn skeletonizers, hemlock chermes, oak loopers, obliquebanded leafrollers, pear slugs, tent caterpillars, webworms (cotoneaster, fall)	2 Tbs.	Apply as a thorough foliar spray.
Roses & Flowers:			
Azaleas, Camellias, Chrysanthemums, Carnations, Gladioli, Lilac, Rhododendron, Roses	Aphids, euonymus scale crawlers, flea beetles, dipterous leafminers, leafhoppers, mealybugs, mites (carnation bud, carnation shoot, cyclamen, European red, two-spotted spider), thrips, whiteflies	2 Tbs.	Apply as a thorough foliar spray. Try to spray underside of leaves and penetrate dense foliage.

FRUITS AND NUTS:

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

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

9 7 15

CROP	PHI*
Apricots	21
Blackberries	7
Boysenberries	7
Cherries	21
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Plums	21
Prunes	21
Raspberries	7
Strawberries	5
Walnuts	45
*PHI = Pre-Harvest Interval, or the number of days between the last application and harvest.	
**Dormant Spray Only.	

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

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots	Aphids, apricot mealybugs, mites (brown, two-spotted spider), scale crawlers (olive, San Jose)	4 tsp. in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq.ft. of orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Berries: caneberries (CA, OR, WA only), blackberries, boysenberries, dewberries, loganberries, raspberries	Aphids, leafhoppers, raspberry fruitworms, two-spotted spider mites, thrips	2 Tbs. 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.
Cherries	Black cherry aphids, cherry fruitworms (maggots), fruit tree leafrollers, mites (cherry rust), scale crawlers (San Jose)	4 tsp. in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq.ft. of orchard. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply within 21 days of harvest.
Grapes	Aphids, leafhoppers, grape berry moths, grape leafrollers	4½ tsp. in 3 gals. of water	Apply as a full cover spray. Do not apply more than 3 gallons per 500 sq.ft. of vineyard. Do not make more than 5 applications per season, a minimum of 7 days apart. Do not apply within 28 days of harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Nectarines	Aphids, mites (brown, two-spotted spider), scale crawlers (olive, San Jose)	4 tsp. in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq.ft. of orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Peaches	Aphids, mites (brown, two-spotted spider), scale crawlers (olive, San Jose)	4 tsp. in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq.ft. of orchard. Do not make more than 3 applications per season, a minimum of 14 days apart. Do not apply within 21 days of harvest.
Plums and prunes	Aphids, (leafcurl plum, mealy plum, thistle), mites (brown, European, red)	4 tsp. in 2 gals. of water	Apply as a full cover spray. Do not apply more than 4 gallons per 500 sq.ft. of orchard. Do not make more than 3 applications per season, a minimum of 7 days apart. Do not apply within 21 days of harvest.
Strawberries	Aphids, two-spotted spider mites, strawberry leafrollers	2 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.
Walnuts (CA only)	Aphids, scale crawlers (walnut, Italian pear, frosted), spider mites, twig borers	2 Tbs. 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, a minimum of 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 walnuts only in California. Do not use this product on walnuts grown in other states.

VEGETABLE CROPS:

For foliar or soil applications, Acme Diazinon 25% Emulsifiable Concentrate should be applied in the volume of water recommended in the table below to assure thorough coverage of the foliage or soil.

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

PRE-HARVEST INTERVALS (PHI*) FOR FOLIAR APPLICATION

CROP	PHI* (Days)	CROP	PHI* (Days)
Beans: lima, pole and snap ^{1/} (succulent varieties only)	7	Lettuce	14
Broccoli	7	Muskmelons	3
Cabbage	21	Onions, bulb and green	14
Cantaloupes	3	Parsnips	14
Carrots	14	Peas ^{1/}	7
Casabas	3	Peppers	5
Cauliflower	7	Potatoes (Irish)	35
Chinese broccoli	10	Radishes	14
Chinese cabbage	10	Spinach	14

CROP	PHI* (Days)	CROP	PHI* (Days)
Collards	10	Squash, summer	7
Crenshaws	3	Squash, winter	3
Cucumbers	7	Sweet corn	7
Endive (Escarole)	14	Tomatoes	1
Honeydew melons	3	Turnips (roots and tops)	14
Kale	10	Watermelons	3

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

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

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, grasshoppers, leafhoppers, Mexican bean beetles, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Do not apply within 7 days of harvest.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Mole crickets	2 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil 1 to 2 days before planting. Immediately work into the soil 1 to 2 inches.
	Wireworms (snap beans only)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Notes: 1) Do not apply this product to dried bean varieties such as pinto beans or dried limas. 2) To protect bees, do not apply bean foliage treatments if the beans or weeds in the treatment area are in bloom.			
Beets (red and table)	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Mole crickets	2 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil 1 to 2 days before planting. Immediately work into soil 1 to 2 inches.
Broccoli	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Cabbage	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 21 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Root maggots	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 3 to 4 inches.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Carrots	Aphids, flea beetles, leafhoppers, dipterous leafminers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Mole crickets	2 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil 1 to 2 days before planting. Immediately work into soil 1 to 2 inches.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Cauliflower	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Chinese broccoli	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Chinese cabbage (Bok choy and Napa)	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Collards	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Corn (see sweet corn)			

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cucumbers	Aphids, thrips, spider mites	2 Tbs. 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, leafhoppers, dipterous leafminers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Kale	Aphids, diamondback moths, flea beetles, imported cabbageworms, dipterous leafminers	2 Tbs. 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. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Lettuce	Aphids, flea beetles, leafhoppers, dipterous leafminers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Melons (cantaloupes, casabas, crenshaws, honeydews, muskmelons, Persians and hybrids of these) and watermelons	Aphids, thrips, spider mites	2 Tbs. 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.
Onions (green and bulb)	Onion thrips	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 3 applications per season. Do not apply within 14 days of harvest.
Parsnips	Aphids, flea beetles, leafhoppers, dipterous leafminers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Peas (succulent only)	Aphids, cucumber beetles, grasshoppers, leafhoppers, Mexican bean beetles, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 5 days up to 3 applications per season. Allow at least 7 days between the last application and harvest.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
	Mole crickets	2 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil 1 to 2 days before planting. Immediately work into soil 1 to 2 inches.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Notes: 1) Do not apply this product to dried pea varieties such as split peas or dried black-eyed peas. 2) To protect bees, do not apply foliage treatments if peas or weeds in the treatment area are in bloom.			
Peppers	Aphids, Colorado potato beetles, flea beetles, leafhoppers	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 5 days of harvest.
Potatoes	Aphids, flea beetles, leafhoppers, Colorado potato beetles, southern armyworms, dipterous leafminers	2 Tbs. 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: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Radishes	Aphids, flea beetles, leafhoppers, imported cabbageworms, dipterous leafminers	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 3 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
Spinach	Aphids, flea beetles, leafhoppers, dipterous leafminers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
Squash (summer)	Aphids, thrips, spider mites	2 Tbs. 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 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 3 days of harvest.
Sweet corn	Aphids, flea beetles, grasshoppers, spider mites	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Corn may be picked 7 days following last application.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
	Mole crickets	2 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil 1 to 2 days before planting. Immediately work into soil 1 to 2 inches.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 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 (<i>Drosophila spp.</i>)	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 1 day of harvest.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.
	Wireworms	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 4 to 8 inches.
Turnips and turnip tops	Aphids, flea beetles, leafhoppers, imported cabbageworms, dipterous leafminers	2 Tbs. in 3 gals. of water to cover 1,000 sq.ft. of garden.	Thoroughly spray all plant parts. Repeat application every 7 days up to 5 applications per season. Do not apply within 14 days of harvest. Note: Resistant leafminers will not be controlled by diazinon or similar type insecticides.
	Cutworms (surface, subterranean)	6 Tbs. per 500 sq.ft. in a minimum of 1½ gal. of water	Broadcast to the soil just before planting. Immediately work into soil 2 to 3 inches for surface cutworms, 3 to 6 inches for subterranean cutworms.

LIMITED WARRANTY AND DISCLAIMER.

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.