

Reg # 11656-18

PM-13

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 16 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

ROBERT WOODARD
WESTERN FARM SERVICE
P.O. BOX 1168
FRESNO, CA. 93715

Subject: Label Amendment Submission of 9/8/93 in Response to PR Notice 93-7
EPA Reg. No. 11656-18
DIAZINON AG-500

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

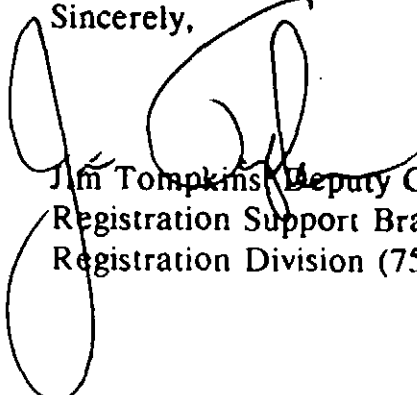
Document Processing Desk (FIN-LABEL)
 Office of Pesticide Programs (7505C)
 U.S. Environmental Protection Agency
 401 M Street, SW
 Washington, D.C. 20460-0001

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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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Robert F. Woodward
Western Farm Services, Inc.

Comments for: EPA REG. NO. 11656-18
Western Farm Services Diazinon AG 500

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

The requirement under heading "Personal Protective Equipment" must state: "Applicators and other handlers must wear:"

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The Agricultural Use Requirements section must either be placed in a clearly separate box or printed on the label in a contrasting color from surrounding text.

The glove requirement for applicators and other handlers in the "Personal Protective Equipment" section of your proposed labeling does not match the chemical resistant category identified on your proposed label. The glove statement should be "Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton.

The glove requirement for early entry in the Agricultural Use Requirements Box should be "Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton.

Change the language in your AGRICULTURAL USE REQUIREMENTS BOX to reflect the following change: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals."

Delete the crossed out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (& DOMESTIC ANIMALS)**

WARNING!
May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid contamination of food. Do not use on humans or permit children to go onto sprayed grass until spray has completely dried. Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock. Do not permit pets to go onto sprayed grass until spray has completely dried.

Personal Protective Equipment:
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:
• Long-sleeved shirt and long pants.
• Chemical-resistant gloves, such as Barnix Laminate or Butyl Rubber ≥ 14 mils or Nitrile Rubber ≥ 14 mils or Neoprene Rubber ≥ 14 mils or PVC
• Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:
Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS
This product is toxic to birds, fish, and wildlife including waterfowl. Birds and water fowl 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, or rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended 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 (except for effluents from treated watercourse beds). Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shellfish 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. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species.
This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.
Apply this product only as specified on this label.
Physical or Chemical Hazards
Do not use pour spill, or store near heat or open flame.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
Storage
Keep in original container. Do not reuse empty container. Store in cool, dry place. Protect from excessive heat. For help with any spill, leak, fire or exposure involving this material, call day or night 800-424-9300.
Disposal
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal Law. If these wastes 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 Metal - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by other procedures as provided by state or local authorities.
Glass - Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

**THIS PRODUCT MUST NOT BE USED ON
GOLF COURSES AND SOD FARMS**



**DIAZINON
AG-500**

For control of certain insects on fruits, nuts, vegetables, field crops and ornamentals

Organophosphate

ACTIVE INGREDIENTS		
Diazinon (0,0-diethyl 0(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate)		48.0%
INERT INGREDIENTS		52.0%
	TOTAL	100.0%

Contains Xylene Range Solvent
Western Farm Service DIAZINON AG-500
contains 4 lbs DIAZINON per gallon
EPA Reg. No. 11656-18
EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
WARNING AVISO**
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail)

**FOR AGRICULTURAL USE ONLY.
DO NOT STORE IN AREAS ACCESSIBLE
TO CHILDREN.
SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS.**

**FIRST AID TREATMENT
STATEMENT OF PRACTICAL TREATMENT
Organophosphate**
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. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. If inhaled, remove victim to fresh air and apply artificial respiration if indicated. If On Skin, wash promptly with soap and water. Rinse thoroughly. If In Eyes, rinse eyes for at least 15 minutes with water and call a physician immediately.
NOTE TO PHYSICIAN Gastric lavage is indicated. Atropine sulfate and 2-PAM are specific antidotes.

NET CONTENTS: _____ GALLONS
ACCEPTED with COMMENTS
WESTERN FARM SERVICE, INC.
P. O. BOX 1168
FRESNO, CA 93715

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 11656-18

CHEMI
Do not apply this prod

READ ENTIRE LABEL.
DANCE WITH PRECAU
DIRECTIONS, AND WI
FEDERAL REGULATIO

DIREC
It is a violation of Federal inconsistent with its label. Do not apply this product to other persons, either direct handlers may be in the area. requirements specific to you responsible for pesticide re

AGRICULTUR
Use this product only in a Worker Protection Standard. contains requirements for on farms, forests, nurseries, agricultural pesticides. It contains decontamination, notification contains specific instruction statements on this label about (PPE). The requirements product that are covered by Do not enter or allow work restricted entry interval (RE EXCEPTION: The California set a five-day re-entry for and nectarines. Five days application and the time a in any activity requiring s When a mixture of two or applied in combination, the to the longest applicable interval.

PPE required for early ent under the Worker Protecti with anything that has bee is: Coveralls, Chemical-r Laminate or Butyl Rubber or Neoprene P über ≥ 14

SEE PACKAGED L
NOTICE

WESTERN FARM SERVICE M
ITY, FITNESS FOR ANY PURP
concerning this product or its use
under normal conditions in accor
DIAZINON® is the registered tra

For Agricultura

ALMONDS: Mites, twig Borers - Apply 1 to 1½ pts. per 100 gals. of water. Parlatoria Scales, San Jose Scales - Mix 1 to 1½ pts. DIAZINON plus 2 to 3 gals. dormant oil per 100 gals. water and apply as a dormant spray. Almond hulls may be used for feed for livestock.

APRICOTS: Aphids, Brown Mites (Clover Mites). Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers - Mix 1 pt. per 100 gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present. Apricot Mealybugs - Mix 1 pt. per 100 gals. of water. Apply as a cover spray from petal fall to June. Do not apply within ten days of harvest.

BLUEBERRIES: Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Two-Spotted Mites - Mix 1 pt. per 100 gals. of water. Apply up to 200 gals. of spray per acre. Do not apply within seven days of harvest.

CANEBERRIES (BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES): Leafhoppers, Thrips, Aphids, Two-Spotted Mites, Raspberry Sawflies - Apply 2 pts. per acre in a minimum of 100 gals. of water. Raspberry Fruitworms - Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open. Dry berry Mites - Apply 1 to 2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring when canes are still on the ground and buds are closed. Make a second application when the buds are well developed, but still closed. Do not apply within seven days of harvest. Raspberry Crown Borers (Raspberry Root Borers) - Apply 2 qts. per acre in a minimum of 100 gals. water as a drench to the crown area and to the lower canes. Apply either in the spring before berries begin to form or in the fall after harvest.

CHERRIES: Eye Spotted Bud Moths, Fruit-Tree Leaf Rollers - Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary, beginning with petal fall. Leafhoppers - Apply 1 pt. per 100 gals. of water in three to five applications beginning at petal fall and continuing through the growing season or apply as infestations develop. Cherry Fruit Flies - Mix ½ to 1 pt. per 100 gals. of water. Make three or four applications beginning when adult cherry fruit flies begin to emerge and repeat at ten-day intervals. Black Cherry Aphids - Mix 1 pt. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after ten days. San Jose Scale Crawlers - Mix 1 pt. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear. Do not apply within ten days of harvest. Cherry Rust Mites - Mix ½ to 1 pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

CITRUS FRUITS (GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, CITRUS CITRON, KUMQUATS,, AND HYBRIDS OF THESE): Citrus Aphids, Fruit-Tree Leaf Rollers, Cottony-Cushion Scale Crawlers and Soft Scale Crawlers - Apply ½ to 1 pt. per 100 gals. of water (maximum 1000 gals. per acre) as a thorough cover spray when aphids and crawlers stages of scale insects first appear. Fruit-Tree Leaf Rollers - Use ½ to 1 pt. per 100

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gals. of spray (maximum 1000 gals. per acre) when an average of 50 percent of eggs in egg masses have hatched in the spring. Citrus Thrips - Apply 1 pt. in 100 gals. of water (maximum 1000 gals. per acre) when thrips first appear. Citrus Snow Scales - Apply 1 to 2 pts. per 100 gals. of water (maximum 1000 gals. per acre) as a post-bloom spray and again as a summer spray. For heavy snow scale infestations use the higher dosage rate. Thorough coverage of tree trunks,, limbs and twigs is essential. Do not apply during bloom. Do not apply to citrus within 21 days of harvest. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources.

CRANBERRIES: Black-headed Fireworms (*Sparganothis sulfureana*) - Apply 2 qts in 400 gals. of water per acre. Cranberry Fruitworm - Apply 3 qts. in 400 gals. of water per acre. Do not apply within seven days of harvest.

FIGS: Vinegar Flies (*Drosophila* spp.). Dried Fruit Beetles - Apply 1 pt. per 100 gals. of water. Do not apply within five days of harvest.

FILBERTS: Filbert Leaf Rollers, Aphids - Apply 1 to 2 qts. in 250 to 400 gals. of water per acre, as a thorough cover spray.

GRAPES: Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf Folders - Apply 1 to 2 pts. per acre in a minimum of 100 gals. of water as a thorough cover spray. Do not apply within 18 days of harvest. *Drosophila* spp. - Apply 12 to 18 fl. oz. per acre in a minimum of 100 gals. of water as a thorough cover spray, or apply when insects first appear. Make additional applications at weekly intervals as necessary. Do not apply within seven days of harvest.

OLIVES: Olive Scales - Mix $\frac{3}{4}$ to 1 pt. of DIAZINON-AG 500 plus 1 $\frac{1}{2}$ gals. of light medium summer horticultural oil per 100 gals. of water. Apply as a cover spray in June or July. Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.

PEACHES AND NECTARINES: Aphids, Brown Mites (Clover Mites). Two Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers - Mix 1 pt. per 100 gals. of water. Apply when aphids, mites and scale crawlers first appear. Olive Scale Crawlers - Mix $\frac{1}{2}$ pt. of DIAZINON AG-500 plus 1 $\frac{1}{2}$ gals. light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present. Oriental Fruit Moths - Mix 1 pt. per 100 gals. of water and apply at 100% petal fall. Make two additional applications at ten to fifteen-day intervals. Time the last application to peak adult oriental fruit moth flight, if possible. Peach twig Borers - Mix 1 pt. per 100 gals. of water and apply to peaches in May and June. Leafhoppers (Peaches Only) - Apply 1 pt. per 100 gals. of water in three to five applications beginning at petal fall and continuing through the growing season or apply as infestations develop. White Peach Scale (Peaches Only) - As a post-harvest spray, apply 1 $\frac{1}{2}$ to 2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, two applications may be necessary. Do not apply to peaches within 20 days or to nectarines within ten days of harvest.

PECANS: Aphids, Mites, Pecan Nut Case Bearers, Walnut Caterpillars - Apply 1 to 3 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks crack.

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PINEAPPLES: Scales - Apply 5 qts. of DIAZINON AG-500 plus 2 gals. of light or medium horticultural oil in 500 gals. of water per acre to the vegetable slips on the plants following harvest of pineapple. Mealybugs - Apply 2 qts. per acre in a minimum of 100 gals. of water. May be applied on day of harvest. Pineapple forage and refuse may be fed to livestock seven days following last application.

PLUMS AND PRUNES: Brown Mites (Clover Mites): European Red mites - Apply 1 pt. per 100 gals. of water. Leaf Curl Plum Aphids, Mealy Plum Aphids, Thistle Aphids - Apply $\frac{1}{2}$ to 1 pt. per 100 gals. of water. Do not apply within ten days of harvest.

STRAWBERRIES: Aphids, Two-Spotted Spider Mites - Apply 1 pt. per 100 gals. of water per acre. Cyclamen Mites - Apply 1 qt. per 100 gals. of water per acre, directing spray to plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Make additional applications, if necessary, after harvest. Mole Crickets - Broadcast 1 qt. per acre when insects are present. Apply one to two days before transplanting and mix into the top 1 to 2 inches of soil immediately. Strawberry Leaf Rollers - Mix $\frac{3}{4}$ to 1 pt. per 100 gals. of water. Apply 200 gals. of spray per acre when blossoms show color. Do not apply within five days of harvest.

WALNUTS: Aphids, Mites - Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water. Coding Moths, Scale Crawlers, Walnut Caterpillars - Apply 3 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after the husks open.

VEGETABLE FOLIAR INSECTS

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Unless otherwise stated, foliar applications of DIAZINON AG-500 should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

BEANS (POLE BEANS, SNAP BEANS, LIMA BEANS): Black Bean aphids, Mexican Bean Beetles, Leaf Miners - Apply 1 to 1½ pts. per acre. Cucumber Beetles - Apply ¾ pt. in 100 gals. of water per acre. Do not apply within seven days of bean harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait four days following treatment if forage is to be cut for hay.

LIMA BEANS: Dipterous Leaf Miners, Leafhoppers, Mites - Apply 1 pt. per acre. Do not apply within seven days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait four days following treatment if forage is to be cut for hay.

BROCCOLI, CABBAGE AND CAULIFLOWER: Aphids, Diamondback Moths, Imported Cabbageworms - Apply ½ to 1 pt. per acre. Applications at seven to ten-day intervals will usually be required. Do not apply to broccoli or cauliflower within five days, or to cabbage within seven days of harvest.

BRUSSELS SPROUTS: Aphids, Diamondback Moths, Imported Cabbageworms - Apply 1 pt. per acre. Generally, applications at seven to ten-day intervals will be required. Do not apply to brussels sprouts within seven days of harvest.

CARROTS: Aphids - Apply 1 pt. per acre. Do not apply within 10 days of harvest.

CELERY: Aphids, Flea Beetles - Apply 1 pt. in 100 gals. of water per acre. Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or food.

COLLARDS, KALE, SWISS CHARD, AND TURNIP TOPS: Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs, Corn Earworms - Apply ½ to 1 pt. per acre. Do not apply to collards, kale, or turnip tops within 10 days, Swiss chard within 12 days of harvest.

CUCUMBERS: Aphids, Serpentine Leaf Miners, Thrips - Apply 1 pt. per acre. Do not apply within 7 days of harvest.

LETTUCE AND ENDIVE: Aphids, Dipterous Leaf Miners - Apply ½ to 1 pt. per acre. Do not apply within 10 days of harvest.

MELONS AND SQUASH (CANTALOUPE, CASABAS, CRENSHAW, HONEYDEW MELONS, MUSKMELONS, PERSIAN MELONS, AND HYBRIDS OF THESE: WATERMELONS AND THEIR HYBRIDS: SUMMER AND WINTER SQUASH): Aphids, Leafhoppers, Mites - Apply 1 to 1½ pts. per acre. Serpentine Leaf Miners, Thrips - Apply ½ to 1 pt. per acre. Do not apply to melons and winter squash within 3 days or to summer squash within 7 days of harvest.

MUSHROOM HOUSES: Mushroom Flies (Phorids and Sciarids) - Mix ½ to 1 gal. in 50 gals. of water (0.5% to 1.0% actual DIAZINON) and spray on outside and inside walls and ventilators of mushroom houses after compost in beds has been pasteurized by heating. Do not spray compost in beds or after spawning. To treat wooden sides of bed, posts, doors and door frames after pasteurizing, mix ½ pt. in 6 gals. of water and apply with a brush. Do not treat compost.

ONIONS: Onion Thrips - Apply 1 pt. per acre. Do not apply within 10 days of harvest.

PEAS: Aphids, Leaf Miners - Apply ¾ to 1 pt. per acre. Peas may be picked immediately. Pea vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

PEPPERS: Aphids, Serpentine Leaf Miners - Apply ½ pt. per acre. Do not apply within 5 days of harvest.

POTATOES: Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf Miners - Apply at the rate of ½ to ¾ pt. per acre. Banded Cucumber Beetles, Leafhoppers, Southern Armyworms - Apply ¾ to 1.0 pt. per acre. Do not apply within 35 days of harvest.

RADISHES, PARSNIPS AND TURNIPS: Aphids, Flea Beetles, Dipterous Leaf Miners - Apply ½ to 1 pt. per acre. Do not apply within 10 days of harvest.

SPINACH AND BEETS: Aphids, Dipterous Leaf Miners - Apply ½ to 1 pt. per acre. Do not apply to spinach within 10 days or to beets within 14 days of harvest.

SQUASH (SUMMER AND WINTER): See Melons and Squash Section.

SWEET CORN: Corn Earworms - Apply 1 to 1 ¼ qts. per acre when silks first appear. Two or three repeat applications at 2 to 3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep. Refer also to Corn under Field and Forage Foliar Insects and field and forage soil insects.

TOMATOES: Aphids, Dipterous Leaf Miners - Apply ½ pt. per acre. To control leaf miners weekly applications are usually required. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms - Apply ¾ to 1 pt. per acre. Vinegar Flies (*Drosophila* spp.) - Apply ½ to 1 ½ pts. per acre. Weekly applications are usually required. Do not apply within 1 day of harvest.

WATERCRESS (HAWAII ONLY): Cyclamen Mites - Mix 1 pt. per 100 gals. of water and apply to one acre as a thorough cover spray. Spray should be directed into the crowns and growing tips of plants. If infestation is heavy, make a second application no later than 10 days after the first application. Repeat applications as necessary. Do not apply within 5 days of harvest.

VEGETABLE SOIL INSECTS

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Unless otherwise stated, soil applications of DIAZINON AG-500 should always be applied to vegetable crops as a spray in a minimum of five gals. of water per acre for ground applications.

CUTWORMS (Surface and Subterranean):

Broccoli	Collards	Muskmelons	Spinach
Brussels Sprouts	Cucumbers	Parsley	Summer Squash
Cabbage	Endive (Escarole)	Peas	Sweet Corn
Cantaloupes	Kale	Peppers	Swiss Chard
Cauliflower	Lettuce	Potatoes	Tomatoes
Celery	Lima Beans	Snap Beans	Watermelons
			Winter Squash

Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately 2-3 inches for surface cutworms 3-6 inches for subterranean cutworms:

GARDEN SYMPHYLANS (Centipedes):

Cabbage	Lettuce	Radishes	Tomatoes
Carrots	Peas	Red Beets	Turnips
Corn	Pole Beans	Snap Beans	

Broadcast 10 qts. per acre just prior to planting. Work into soil 4-8 inches immediately. This pre-plant treatment will also control other soil insects such as cutworms (surface and subterranean), mole crickets, root maggots, and wireworms.

MOLE CRICKETS:

Broccoli	Collards	Lettuce	Radishes
Brussels Sprouts	Endive (escarole)	Mustard	Tomatoes
Cabbage	Kale	Peppers	Turnips
Cauliflower			

Broadcast 1 qt. per acre when insects are present. Make applications to plant beds or field 1-2 days prior to sowing of seed or transplanting and working into soil 1-2 inches immediately.

ONION MAGGOTS:

Onions:

Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time. Broadcast Application: Broadcast 2-4 qts. per acre just prior to planting. Work into soil 3-4 inches immediately.

ROOT MAGGOTS:

Broccoli, Brussels Sprouts, Cabbage and Cauliflower:

Broadcast Application - Broadcast 2-3 qts. per acre and immediately work into the soil 3-4 inches before seeding either in the seedbed or in the field or before transplanting. Transplant Water (Drench) Application - Mix $\frac{1}{4}$ to $\frac{1}{2}$ pt. in 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of $\frac{1}{2}$ - 1 cupful per plant, either by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Transplant water treatments may result in stand reduction due to plant stress at time

of transplanting. Radishes: Mix 1 qt. in 50 gals. of water. Apply 80-100 gals. per acre (1 to 1 1/2 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS:

Broccoli	Collards	Onions	Summer Squash
Brussels Sprouts	Cucumbers	Parsley	Sweet Corn
Cabbage	Endive (escarole)	Peas	Sweet Potatoes
Cantaloupes	Kale	Peppers	Swiss Chard
Carrots	Lettuce	Potatoes	Tomatoes
Cauliflower	Lima Beans	Snap Beans	Watermelons
Celery	Muskmelons	Spinach	Winter Squash

Broadcast 3 to 4 qts. per acre prior to planting and work into soil 4 to 8 inches immediately.

POTATOES: Wireworms - Broadcast 3 to 6 qts per acre prior to planting. Immediately disk or harrow into soil 4 to 8 inches. Southern Potato Wireworms (Southeastern U.S.) - For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast, apply 2 to 4 qts. per acre as a soil treatment prior to planting and immediately mix thoroughly by disking or other suitable means into the top 3 to 6 inches of soil, depending on location of wireworms.

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar application of DIAZINON AG-500 should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

ALFALFA AND CLOVER: Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites - Apply 3/4 to 1 pt. per acre. Grasshoppers - Apply 1 pt. per acre. Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay provided alfalfa or clover is not cut for hay for seven days following treatment. Alfalfa Weevil Larvae - For control in the spring, apply 2 to 3 pts. per acre when feeding damage to growing tips becomes evident. Repeat application if necessary. If damage is already extensive, cut the hay and make application to the stubble. Do not graze dairy and beef animals or sheep for two days. Do not cut for hay for ten days following treatment. Do not graze dairy and beef animals or sheep for two days. Do not cut for hay for ten days following treatment. Do not spray livestock directly with either air or ground equipment. Do not treat during bloom to avoid injury to pollinating insects.

CLOVER: Striped Ground Crickets - Broadcast 1 to 2 pts. per acre following seeding in the fall but prior to clover emergence.

CORN: Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Corn Rootworm Adults - Apply 1/2 to 1 pt. per acre. Corn Leaf Aphids - Apply 1 to 2 pts. per acre. Complete coverage of the upper portions of the plants is essential. Repeat applications as necessary. Mites - Apply 1 pt. per acre when infestations first appear. Repeat applications as necessary. Grasshopper - Apply 1 pt. per acre. Sap Beetles - Apply 2 to 2 1/2 pts. per acre. Add 1 to 2 gals. of soluble mineral oil per acre to the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for proper timing of sprays. Corn may be picked immediately following last application. Corn forage may be fed

to dairy and beef cattle and sheep.

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COTTON: Spider Mites, Aphids, Leafhoppers, Lygus, Cotton Leafworms, Cotton Leaf Perfoators - Apply 1 to 2 pts. in 5 to 25 gals. of water per acre. Repeat as infestation warrants. Do not apply within 14 days of harvest. Do not graze treated cotton plants or feed gin wastes to livestock.

HOPS: Aphids, Mites - Apply 1 qt. per acre. Do not apply within 14 days harvest.

SORGHUM: Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Sorghum Midge - Apply $\frac{1}{2}$ to 1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within four days. Mites - Apply 1 pt. per acre when infestation first appears and repeat applications as necessary. Greenbug - Apply at the rates indicated below when infestation first appears and repeat as necessary. Texas and Oklahoma - Apply $\frac{1}{2}$ to 1 pt. per acre. All Other Areas - Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within seven days of harvesting for grain.

SUGAR BEETS: Leafhoppers, Dipterous Leaf Miners, Aphids - Apply $\frac{3}{4}$ to 1 pt. per acre. Grasshoppers - Apply 1 pt. per acre. NOTE: Tops may be fed to beef and dairy animals.

SUGARCANE: Aphids - Apply $\frac{1}{2}$ to 1 pt. per acre. Allow one day between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO: Aphids, Flea Beetles - Apply $\frac{1}{2}$ to $\frac{3}{4}$ pt. per acre. Do not apply within three days of harvest. Grasshoppers - Apply 1 pt. per acre. Do not apply within 14 days of harvest.

FIELD AND FORAGE SOIL INSECTS

Unless otherwise stated, soil applications of DIAZINON AG-500 should always be applied to field and forage crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

ALFALFA AND CLOVER: Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

CORN: Corn Rootworm Larvae - Band application at Planting Time: Apply 1-2 qts. per acre. Make application in the seed furrow or apply 2 $\frac{1}{2}$ to 5 oz. per 1,000 linear feet of corn row in a 4-7 inch band directly behind the planter shoe. For band treatment, refer to the row spacing chart for amount recommended per acre. Postemergence Basal Treatment: Apply 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ oz. per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk hiller or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but no later than June 24 in the Middle Corn Belt, or July 1 in the Northern Corn Belt.

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Suggested Rates According to Row Spacing For Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Rate Per Acre Planting Time Application	Postemergence Basal Treatment
48"	10.890	28-56 oz.	14.28 oz.
42"	12.455	31-52 oz.	15.5-31 oz.
40"	13.068	32-64 oz. (1-2 qts)	16-32 oz. (½-1 qt.)
38"	13.939	35-70 oz.	17.5-35 oz.
36"	14.250	36-72 oz.	18-36 oz.
30"	17.424	44-88 oz.	22-44 oz.
24"	21.780	55-110 oz.	27.5-55 oz.
20"	26.136	64-128 oz. (2-4 qts.)	32-64 oz. (1-2 qts.)
15"	34.848	88-176 oz.	44-88 oz.

NOTE: For row spacing not listed, calculate the appropriate dosage based on the 40-inch row figure.

Seed Corn Maggots - Broadcast 2-4 qts. per acre just prior to planting. Work into soil 2 inches immediately. Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into soil 1-2 inches immediately. Do not apply later than layby. For subterranean cutworms, apply just prior to planting and work into soil 3-6 inches immediately. Wireworms - Apply 3-4 qts. per acre prior to planting and work into the soil 4-8 inches immediately. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

COWPEAS: Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre, just prior to planting, work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

LESPEDEZA: Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

PEANUTS: Cutworms - Apply 2 qts. per acre in a 12-inch band over the row. Thorough coverage of the foliage is essential. Begin application when small larvae appear. Two or three applications at three-week intervals may be necessary. Do not apply within 21 days of peanut harvest. Livestock (1) may be fed peanut hulls, (2) may be fed peanut forage 7 days following treatment and, (3) may be fed peanut hay 21 days following treatment.

SORGHUM: Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

SOYBEANS: Cutworms (Surface and Subterranean) - Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

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SUGAR BEETS: Wireworms - Broadcast 3-4 qts. per acre just prior to planting, and work into soil 4-8 inches immediately. Tops may be fed to beef and dairy animals.

SUGARCANE: Wireworms - Apply 1 gal. per acre in a 12-inch band centered over the furrow. Make application directly to seed pieces in open furrows at covering time.

TOBACCO: Cutworms - Broadcast 2-3 qts. per acre before transplanting and work into the soil 2-4 inches immediately. Green June Beetle Larvae - Mix $\frac{1}{4}$ pt. in 50 gals. of water and apply as a drench (100 gals. per 100 sq. yds.) to uprooted areas of plant beds with sprinkling cans. Mole Crickets - Broadcast 1 qt. per acre when insects are present. Make application to beds or fields 1-2 days prior to sowing of seed or transplanting, and work into soil immediately 1-2 inches. Seed-Corn Maggots - Broadcast 3 pts. per acre 3-4 weeks before transplanting. Work into soil 2 inches immediately. Wireworms - Broadcast 2-3 qts. per acre 3-4 weeks before transplanting. Work into soil 6-9 inches immediately.

RANGE, PASTURE, AND GRASSLAND INSECTS

Unless otherwise stated, DIAZINON AG-500 should always be applied as a spray in a minimum of 1 gal. of water per acre for aerial applications, and a minimum of 5 gals. of water per acre for ground applications.

BERMUDAGRASS AND FORAGE GRASSES (other than Range and Pasture Grasses): Thrips, Whiteflies, Grasshoppers - Apply 1 pt. per acre. Dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting, and (3) forage grasses may be cut for hay 7 days following treatment.

RANGELAND, PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, AND BARRIER STRIPS: Grasshoppers - Apply $\frac{3}{4}$ -1 pt. per acre in water or oil (minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymph stage. Thorough coverage of the foliage is essential. Dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting, and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat application for 30 days.

ORNAMENTAL INSECT CONTROL

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To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

Insects	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leaf Miners. European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers. Obscure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawler (Cottony-Cushion, Lecanum, Pine Needle, San Jose Scale, Soft Scale), Thrips, Two-Spotted Mites, Webworms, Whiteflies	½ fl. oz.	1 pt.
Apple-Thorn Skeletonizer, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Oblique-banded Leaf Rollers, Pear Slugs, Tent Caterpillars.	1 ½ fl. oz.	3 pts.

* 1 fl. oz 2 Tablespoons
16 fl. oz. 1 pint

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

Mimosa Webworms - Mix ½ fl. oz. in 3 gals. of water (or 1 pt. in 100 gals. of water) and apply as a thorough foliage spray when adults first appear. Make a second and third application at 4-5 week intervals.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS

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LAWN INSECT CONTROL

Lawn Pest Control (Excluding Golf Courses and Sod Farms)

To control pests listed below, apply recommended rates. Per control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house, as well as the house foundation wall to a height of 2-3 feet. Repeat application if necessary.

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

Pests	Rate/1000 sq. feet		Remarks
	D*Z*N diazinon AG-500	Water	
Lawn Chinch Bugs	2-3 fl. oz.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns. Spot Spray ant hills and wasp ground nest openings.
Ants, Armyworms, Clover Mites, Springtails (Collembola), Crickets	2-3 fl. oz.	3 gals.	For Fruit flies, mow grass and water well before treatment but delay application until grass is dry.
Cutworms, Digger Wasps, Earwigs, Fruit Flies, Lawn Billbugs, Sod Webworms, (Lawn Moths), Sowbugs,			Notes: Do not apply to animals.
Brown Dog Ticks, Bermudagrass Mites, Chiggers, Fleas, Leafhoppers	1 1/4 fl. oz.	3 gals.	For brown dog ticks, spray grass and under shrubbery, particularly near house.
Millipedes	3 fl. oz.	3 gals.	
Thodesgrass Scales	3 fl. oz.	3 gals.	Apply when crawlers first emerge.

Billbugs, White Grubs (such as Japanese Beetle Larvae, European Cater, Southern Charer): apply 3 fl. oz. per 1,000 sq. ft. of lawn. For grub control, make application anytime between late July and early October. For billbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

Hyperodes Weevil (New York only): Apply 3 fl. oz. per 1,000 sq. ft. or grass. Treat problem areas in mid-April and again in mid-May.

Boxeider bugs: Spray bugs outside the home with 1¼ - 2½ fl. oz. (2½ - 5 table spoons) in 1 gal. water. At the same time, thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.