

**ACCEPTED**  
JAN 15 1987  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 148-1277

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

# DIAZINON AG-4 INSECTICIDE

FOR THE CONTROL OF CERTAIN INSECTS ON FRUITS, NUTS, VEGETABLES, FIELD CROPS AND ORNAMENTALS

**ACTIVE INGREDIENTS:**

|  |               |
|--|---------------|
| DIAZINON (0,0-dimethyl-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate)..... | 48.0%         |
| XYLENE.....  | 38.0%         |
| INERT INGREDIENTS.....   | 13.0%         |
| <b>TOTAL</b> .....   | <b>100.0%</b> |

DIAZINON® Registered trademark of Ciba Geigy Corp.  
DIAZINON AG-4 contains 4 lbs. of Diazinon per gallon.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS (AND 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 and before eating or smoking. Avoid contamination of food. Do not use on lawns or pets. Do not permit children or pets to go on treated areas until spray has completely dried. Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds and other wildlife. Birds and other wildlife feeding in treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries (except to effluents from treated watercourses beds). Do not apply to water that will be used for recreational purposes and human and livestock consumption. 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. This product must not be used in areas where impact on the threatened and endangered species is likely. Contact your state Fish and Game Agency before applying this product. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

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.

**PHYSICAL & CHEMICAL HAZARDS**  
**COMBUSTIBLE MIXTURE.** Do not use, pour, spill or store near heat or open flame.

**KEEP OUT OF REACH OF CHILDREN  
WARNING**

If swallowed—Call a physician or Poison Control Center immediately. DO NOT INDUCE VOMITING unless other treatment is not 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. Apply respiration if indicated.

If on skin—Remove contaminated clothing and wash affected areas with soap and water.

If in eyes—Flush eyes with plenty of water. Call a physician immediately.

**NOTE TO PHYSICIAN:** Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. If symptoms of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be used in conjunction with atropine.

**STORAGE & DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Keep away from heat and open flame. Store in cool, dry place. Wear protective clothing when handling. If spilled, spread absorbent over spillage, such as clay. Absorbent should be swept and buried. If leaking, put container into a similar drum or glass container. Mark container with name of product, ingredient statement, precautionary statements and signal word. Contact us for replacement label.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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 DISPOSAL (1-Gal. Plastic):** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**CONTAINER DISPOSAL (Metal):** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.


**DIRECTIONS FOR USE**  
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THIS LABELING

**GENERAL INFORMATION**  
Diazinon AG-4 is an emulsifiable solution which when diluted with water according to the directions below is intended for the control of insect pests of agricultural crops. Do not use in barns or dwellings. Do not use on livestock. In the directions for use given below, best control is obtained when applications are made at first sign of insects. Application should be repeated as necessary to maintain control. NOTE: The California Department of Agriculture has set a 5-day re-entry for Diazinon on citrus, grapes, peaches and nectarines. Five days should lapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organic phosphate pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

**FRUIT AND NUT CROPS** — NOTE: Unless otherwise stated, the rates listed below should be applied as a dilute full cover spray. Almonds — Mites, Twig Borers Apply 1-1½ pps per 100 gals of water. Parlatoria Scales San Jose Scales Mix 1-1½ pps Diazinon plus 2-3 gals dormant oil per 100 gals of 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 pint AG-4 with 1½ gallons of light medium horticultural oil per 100 gals of water. Apply when scale crawlers are present. Apple/Wealthybugs (Mix 1 qt per 100 gals of water. Apply as a cover spray from petal fall to June. Do not apply within 10 days of harvest. Blueberries — Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids Mix 1 pint AG-4 with 1½ gallons of water. Apply up to 200 gals of spray per acre. Do not apply within 7 days of harvest. Cantaloupes — Blackberry, Boysenberries, Blackberries, Loganberries, Raspberries — Leaf-

**DIRECTIONS FOR USE (Cont'd.)**  
hoppers, Thrips, Aphids, Two-Spotted Mites, Raspberry Sawflies Apply 2 pps 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. Strawberry Mites: Apply 1-2 pps 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 7 days of harvest. Raspberry Crown Borers (Raspberry Root Borers) Apply 2 gals per acre in a minimum of 100 gals of 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 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop. Cherry Fruit Flies: Mix ½-1 pt. per 100 gals of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge, and repeat at 10-day intervals. Black Cherry Aphids Mix 1 pt per 100 gals of water. Apply as a cover spray when aphids appear and repeat after 10 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 10 days of harvest. Citrus Rust Mites Mix ½-1 pt. per 100 gals of water. Apply as a supplemental spray after harvest. Citrus Fruit — Grapefruit, Lemon, lime, Orange, Tangerine, Tangerine, Citrus, Clementine, and hybrids of these — Citrus Aphids, Fruit-Tree Leaf Rollers, Gallon, Cuckoo Scale Crawlers, and Soft Scale Crawlers Apply ½-1 pt per 100 gals of water in a minimum of 1000 gals of water. Apply as a thorough cover spray when aphids and crawler stages of scale insects first appear.

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**DIRECTIONS FOR USE (Cont'd.)**

Fruit-Tree Leaf Rollers Use 1/2-1 pt. per 100 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 1-2 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 (Sargonothus sulfureana) Apply 2 qts. in 400 gals. of water per acre. Cranberry Fruitworms Apply 3 qts. in 400 gals. of water per acre. Do not apply within 7 days of harvest. Figs — Vinegar Flies (Drosophila spp.) Dried Fruit Beetles. Apply 1 pt. per 100 gals. of water. Do not apply within 5 days of harvest. Filberts — Filbert Leaf Rollers. Aphids. Apply 1-2 qts. in 250-400 gals. of water per acre, as a thorough cover spray. Grapes — Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf Rollers Apply 1-2 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 12-18 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 7 days of harvest. Olives — Olive Scale Mix 1/4 pt. of Diazinon AG-4 plus 1 1/2 pts. 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 1/4 pt. of Diazinon AG-4 plus 1 1/2 pts. 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 2 additional applications at 10-15 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 3-5 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 1/2-2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, 2 applications may be necessary. Do not apply to peaches within 20 days or to nectarines within 30 days of harvest. Pecans — Aphids, Mites, Pecan Nut Case-bearers, Walnut Caterpillars Apply 1-3 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks crack. Pineapples — Scales: Apply 5 qts. of Diazinon AG-4 plus 4 pts. of light or medium horticultural oil in 500 gals. of water per acre to the vegetative 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 7 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 1/2-1 pt. per 100 gals. of water. Do not apply within 10 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 1 to 2 days before transplanting and mix into the top 1-2 inches of soil immediately. Strawberry Leaf Rollers Mix 1/2-1 pt. per 100 gals. of water. Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest. Walnuts — Aphids, Mites. Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water. Codling 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**

Unless otherwise stated, foliar applications of Diazinon AG-4 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 1-1 1/2 qts. per acre. Cucumber Beetles: Apply 1/2 pt. in 100 gallons of water per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Lima Beans — Dipterous Leaf Miners, Leafhoppers, Mites. Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Broccoli, Cabbage, and Cauliflower — Aphids, Diamondback Moths, Imported Cabbageworms. Apply 1/2-1 pt. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days, or to cabbage within 7 days of harvest. Brussels Sprouts — Aphids, Diamondback Moths Imported Cabbageworms: Apply 1 pt. per acre. Generally, applications at 7-10 day intervals will be required. Do not apply to brussels sprouts within 7 days of harvest. Carrots — Aphids, Flea Beetles. Apply 1 pt. in 100 gals. of water per acre. Do not apply within 30 days of harvest. Plants should be market limber (tops removed) before being shipped or used. Tops should not be used for feed or food. Celery, Kale, Swiss Chard, and Turnip Tops — Aphids, Imported Cabbageworms, Diamondback Moths, Hellequin Cabbage Bugs, Corn Earworms. Apply 1/2-1 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 1/2-1 pt. per acre. Do not apply within 10 days of harvest. Melons and Squash — Cucumber Beetles, Cucumber Beetles, Imported Cabbageworms, Flea Beetles, and Hybrids of these. Watermelons and their hybrids: Summer and Winter Squash — Aphids, Leafhoppers, Mites. Apply 1/2-1 1/2 pts. per acre. Serpentine Leaf Miners, Thrips. Apply 1/2-1 pt. per acre. Do not apply to melons and winter squash within 30 days, or to summer squash within 7 days of harvest. Mushroom Flies — Mushroom Flies (Phorids and Sciarids). Mix 1/2 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 beds, posts, doors

**DIRECTIONS FOR USE (Cont'd.)**

and door frames after pasteurizing, mix 1/2 pt. in 6 gals. of water and apply with a brush. Do not treat compost bins — Onion thrips. Apply 1 pt. per acre. Do not apply within 10 days of harvest. Peas — Aphids, Leaf Miners. Apply 1/2-1 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 of forage to be cut for hay. Peppers — Aphids, Serpentine Leaf Miners. Apply 1/2 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 1/2-1 pt. per acre. Do not apply within 35 days of harvest. Baked Beans, Parsnips, and Turnips — Aphids, Flea Beetles, Dipterous Leaf Miners. Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest. Spinach and Beets — Aphids, Dipterous Leaf Miners. Apply 1/2-1 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. Sweet Corn — Corn Earworms. Apply 1-1 1/2 qts. per acre when silks first appear. Two or three repeat applications at 2-3 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 1/2 pt. per acre. To control leaf miners weekly applications are usually required. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms. Apply 1/2-1 pt. per acre. Vinegar Flies (Drosophila spp.) Apply 1/2-1 1/2 qts. per acre. Weekly applications are usually required. Do not apply within 14 days of harvest. Watercress (Harvest 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**

Unless otherwise stated, soil applications of Diazinon AG-4 should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications. Cabbages (Broccoli and Subterranean) — Broccoli, Brussels Sprouts, Cabbage, Cantaloupes, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Swiss Chard, Tomatoes, 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, German Beetles, and Wireworms. — Cabbage, Carrots, Corn, Lettuce, Peas, Pole Beans, Radishes, Red Beets, Snap Beans, Tomatoes, Turnips — Broadcast 10 qts. per acre just prior to planting. Work into soil 4-8 inches immediately. This preplant treatment will also control other soil insects such as cutworms (surface and subterranean), mole crickets, root maggots, and wireworms. Bean Crickets — Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Endive (escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes, Turnips — Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1-2 days prior to sowing of seed or transplanting and work into soil 1-2 inches immediately. Bean Maggots — Onions. Furrow Application. Apply 1 qt. per acre in sufficient water to trench 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. Beet 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 1/2-1 pt. in 50 gals. of transplant water, when 200-300 gals. of water are used per acre. May be applied at the rate of 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 (1-1 1/3 qts. per 1,000 linear feet of row) in the seed furrow at planting time. Wireworms — Broccoli, Brussels Sprouts, Cabbage, Cantaloupes, Carrots, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Onions, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, Winter Squash — Broadcast 3-4 qts. per acre just prior to planting, and work into soil 4-8 inches immediately. Potatoes — Wireworms. Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches. Southern Field Wireworm (Southwestern U.S.). For use to control southern potato wireworms in potatoes grown on muck or soils in the Southeast, apply 2-4 qts. per acre as a soil treatment prior to planting, and immediately mixed thoroughly by disking, or other suitable means into the top 3-6 inches of soil, depending on location of wireworms.

**FIELD AND FORAGE FOLIAR INSECTS**

Unless otherwise stated, foliar applications of Diazinon AG-4 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 1/2-1 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 7 days following treatment. Alfalfa Weevil Larvae. For control in the spring, apply 2-3 pts. per acre when feeding damage to growing tops 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 2-3 days. Do not cut for hay for 10 days following treatment. Do not spray hay, stock directly with either air or ground equipment. Do not treat during bloom to avoid injury to pollinating insects. Clover — Striped Ground Crickets. Broadcast 1-2 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 3 gals. of water for ground applications. Corn Rootworm Adults. Apply 1/2-1 pt. per acre. Corn Leaf Aphids. Apply 1-3 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. Grasshoppers. Apply 1 pt. per acre. Sap Beetles. Apply 2-3 qts. per acre. Add 1-2 qts. of soluble insecticide per acre in the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for pre-harvest timing of sprays. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep. Cotton — Spouter Mites, Aphids, Leafhoppers, Lygus, Cotton

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**DIRECTIONS FOR USE (Cont'd.)**

Leafworms Cotton Leaf Perforators Apply 1-2 pts. in 5-25 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 on waste to livestock. **Measles**—Aphids Mites Apply 1 pt. per acre. Do not apply within 14 days of harvest. **Sorghum**—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. **Sorghum Midge** Apply 1/2 pt. per acre when 90% of heads have emerged from the boll. Repeat application within 4 days. **Mites** Apply 1 pt. per acre when infestation first appears and repeat applications as necessary. **Greenbug** Apply at rates indicated below when infestation first appears and repeat as necessary. **Texas and Oklahoma**—Apply 1/2 pt. per acre. **All Other Areas**—Apply 1 pt. per acre. Crops may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain. **Sugar Beets**—Leafhoppers Leaf Miners Aphids Apply 1/2 pt. per acre. **ROIE**—Tops may be fed to and dairy animals. **Sugarbeet**—Aphids Apply 1/2 pt. per acre. Allow 1 day between last application and harvest. **Bagasse** and forage may be fed to livestock. **Tabacco**—Aphids Flea Beetles Apply 1/2 pt. per acre. Do not apply within 3 days of harvest. **Grasshoppers** Apply 1 pt. per acre. Do not apply within 30 days of harvest.

**FIELD AND FORAGE SOIL INSECTS**

Unless otherwise stated, soil applications of Diazinon AG-4 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. **Alabama and Clewer**—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 1/2-5 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 amounts recommended per acre. **Postemergence Basal Treatment** Apply 1 1/2-2 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 harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not later than June 24th in the Middle Corn Belt, or July 1st in the Northern Corn Belt.

**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                       | 31-62 oz.                               | 15.5-31 oz.                   |
| 40"         | 13,064                       | 32-64 oz. (1-2 qts.)                    | 16-32 oz. (1/2-1 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 spacings not listed, calculate the appropriate dosage based on the 40" row spacing.

**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 14 days. 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. **Peas**—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 additional 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. **Sugar Beets**—Wireworms Broadcast 3-4 qts. per acre just prior to planting, and work into the soil 4-8 inches immediately. **Tops** may be fed to beef and dairy animals. **Sugarbeet**—Wireworms A 1/2-1 gal. per acre in a 12-inch band centered over the furrow. Make application directly to seed pieces in open furrow at covering time. **Tabacco**—Cutworms Broadcast 2-3 qts. per acre before transplanting and work into the soil 2-4 inches immediately. **Green June Beetle Larvae** Mix 1/2 pt. in 50 gals. of water and apply as a trench (100 gals. per 100 sq. yds.) to uprooted areas of plant beds with sprinkling can. **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 1-2 inches immediately. **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-4 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. **Beet weevils** 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. Do not

**DIRECTIONS FOR USE (Cont'd.)**

repeat application for 30 days. **Range/Pasture, Blotch Banks, Roadsides, Woodland, Weeping Arches, and Barrier Strips**—Grasshoppers Apply 1/2 pt. per acre in water or oil (minimum of 1 gal. of oil per acre) when insects first appear. Preferably in the nymphal 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.

**INDICATED INSECT CONTROL**

To control certain insects on **Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladiolus, 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 gal. 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, Gummyrooted Leaf Tiers, Privet Mites, Scale Crawlers (Cottony-Cushion, Lecanum, Pine Needle, San Jose, Soft Scale), Thrips, Two-Spotted Mites, Webworms, Whiteflies | 1/4 fl. oz.            | 1 pt.                   |
| Apple-and-Thorn Skeletonizers, Coloneaster Webworms, Fall Webworms, Hemlock C. worms, Oak Looper, Oblique-banded Leaf Rollers, Pear Slugs, Tent Caterpillars  | 1 1/2 fl. oz.          | 3 pts.                  |

\* 1 fl. oz. = 2 tablespoons. 16 fl. oz. = 1 pint

Do not use on certain Ferns, Penstemon, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. **Mosses** Webworms Max 1 fl. oz. in 3 gals. of water for 1 pt. in 100 gals. of water and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.

**LAWN INSECT CONTROL**

To control insects listed below, apply recommended rates. For control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Collembola (Springtails), 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 ft. Repeat application if necessary.

| Insects   | Rate/1,000 sq. ft.         |           | Remarks  |
|---|----------------------------|-----------|--|
|   | Minimum                    | Water     |  |
| Lawn Chinch Bugs  | 2-3 fl. oz. or 3-6 fl. oz. | 25 gals.* | Use higher rate for longer residual control and in lawns of dense growth such as St. Augustine lawns.  |
| Ants; Armyworms, Clover Mites, Collembola (Spring-tails), Crickets, Cutworms, Digger Wasps, Earwigs, Fire flies, Lawn Billbugs, Sod Webworms, (Lawn Moths), Sowbugs | 2-4 fl. oz.                | 3 gals.   | Spot spray ant hills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For Fire flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary. |
| Brown Dog Ticks, Bermuda Mites, Chiggers, Fleas, Leafhoppers  | 1 1/2 fl. oz.              | 3 gals.   | Do not apply to animals. For brown dog ticks spray grass and under shrubbery, particularly near house.   |
| Millipedes  | 8 fl. oz.                  | 3 gals.   |  |
| Rhodes-grass Scales   | 5 fl. oz.                  | 25 gals.* | Apply when crawlers first emerge   |

\* Alternately, make application in 3 gals. of water per 1,000 sq. ft. and thorough water immediately following application. **Boxelder Bugs** Spray bugs outside the home with 1 1/2-2 fl. oz. (2 1/2-5 tablespoons) 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. **Billbugs and White Grubs**, Japanese beetle larvae, European choler and Southern choler—Apply 5 fl. oz. of product per 1,000 sq. ft. of lawn. Water grass thoroughly after application. For grub control, make application any time 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. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

**FIRE ANTS**

To aid in the control of fire ants in lawns and other recreational areas, apply 1/2 pt. (1 cup) in a minimum of 1 gal. of water in a 6-inch, 1/2-inch, 1/4-inch and 6 inches round each mound. Apply gently to avoid scarring and spraying. As necessary, larval quantities of solution can be prepared for multiple mounds. This solution is capable of delivering the diluted product as 2 galls. rain (2 fl. oz. of 1 gal. of water). 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.

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