

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. Avoid contamination of food. Do not use on humans or permit children to go on to 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. Do not permit pets to go on to treated areas until spray has completely dried.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED*—Call a physician immediately. **DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE.** Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. 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 for at least 15 minutes with water. Call a physician immediately.

*NOTE TO PHYSICIAN—Gastric lavage is indicated. Atropine sulfate and 2-PAM are specific antidotes.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from areas treated or where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of waste. 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.

CHEMICAL OR PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

DIRECTIONS FOR USE

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

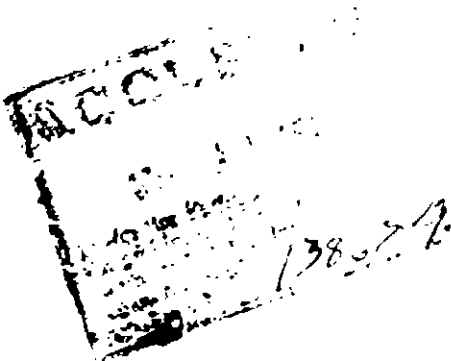
SEE ATTACHED BOOKLET FOR COMPLETE USE DIRECTIONS.

STORAGE AND DISPOSAL

1. PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.
2. PESTICIDE DISPOSAL: PESTICIDE, SPRAY MIXTURE, OR RINSATE THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DEPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.
3. CONTAINER DISPOSAL: TRIPLE RINSE (OR EQUIVALENT) AND OFFER FOR RECYCLING, RECONDITIONING, OR DISPOSAL IN APPROVED LANDFILL OR BURY IN A SAFE PLACE.
4. GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

NOTICE

Use only for the purpose and in compliance with the limitations, cautions or warnings stated on this label.



ACCEPTED

MAY 01 1981

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this pesticide is extended for the pesticide registered under EPA Reg. No. 1386-599

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ADDITIONAL LABELING—DIRECTIONS FOR USE

UNICO[®]

DIAZINON[®] 4EC (AG)

Insecticide for control of certain insects on fruits, nuts, vegetables, field crops and ornamentals.

Refer to container label for additional Precautionary Statements and Statement of Practical Treatment.

EPA Reg. No. 1386-599

FACJCT 203

Diazinon Trademark of CIBA GEIGY

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

GENERAL INFORMATION

Diazinon 4EC is an emulsifiable solution which, when diluted with water according to directions, 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 which follow, best control is obtained when application is made at the first sign of insects. Application should be repeated as necessary to maintain control. NOTE: The California Department of Agriculture has set a 5-day reentry 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 is applied, 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 pts. per 100 gals. of water. Paratortia Scales, San Jose Scales: Mix 1-1½ pts. 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), Twospotted 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 ½ pt. of Diazinon 4EC plus ½ gal. 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 10 days of harvest.

BLUEBERRIES—Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Twospotted Mites: Mix 1 pt. per 100 gals. of water. Apply up to 200 gals. of spray per acre. Do not apply within 7 days of harvest.

CANEBERRIES, BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES—Leafhoppers, Thrips, Aphids, Twospotted 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. Dryberry Mites: Apply 1-2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring, when canes are still in 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 qts. 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—Clypeosplitter B d Moths, Fruitree Leaf rollers. Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary beginning with petal fall. 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. 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. 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 5 days of harvest. Cherry Rust Mites: Mix ½ pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

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CITRUS FRUITS (Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus, Citron, Kumquats, and hybrids of these)—Citrus Aphids, Fruittree Leafrollers, Cottony-cushion Scale Crawlers, Soft Scale Crawlers: Apply 1/2-1 pt. per 100 gals. of water (maximum 1,000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear. Fruittree Leafrollers. Use 1/2-1 pt. per 100 gals. of spray (maximum 1,000 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 1,000 gals. per acre) when thrips first appear. Citrus Snow Scales: Apply 1-2 pts. per 100 gals. of water (maximum 1,000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, 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—Blisk Headed Fireworms (*Rhopobota naevana*): 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 Leafrollers, 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 Scales: Mix 3/4-1 pt. of Diazinon 4EC plus 1/2 gal. 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, NECTARINES—Aphids, Brown Mites (Clover Mites), Twospotted 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 1/2 pt. of Diazinon 4EC, plus 1/2 gal. 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 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 2-3 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 pt. 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 10 days, of harvest.

PECANS—Aphids, Mites, Pecan Nut Casebearers, 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.

PINEAPPLE—Scales: Apply 5 qts. of Diazinon 4EC plus 2 gals. 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. Fine pile forage and refuse may be fed to livestock 7 days following last application.

PLUMS, PRUNES—Brown Mites, Clover Mites, European Red Mites: Apply 1 pt. per 100 gals. of water. Leafhoppers, Fruit Aphids, Mealy Fruit Aphids, Thistle Aphids: Apply 1/2-1 pt. per 100 gals. of water. Do not apply within 10 days of harvest.

STRAWBERRIES—Aphids, Twospotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre. Cyclamen Mite: 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, Broadwing: 1 qt. per acre when insects are present. Apply 1-2 days before transplanting and in early morning into the top 1-2 inches of soil. Strawberry Leafrollers: Mix 1/2 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 4EC 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, Leafminers: Apply 1-1 1/2 qts. per acre. Cucumber Beetles: Apply 3/4 pt. in 100 gals. 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 of forage is to be cut for hay.

LIMA BEANS—Dipterous Leafminers, Leafminers, 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, 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: Apply 1 qt. 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. Parts should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or food.

COLLARDS, KALE, SWISS CHARD, TURNIP TOPS—Aphids, Imported Cabbageworms, Diamondback Moths, Hairy Green Cabbage Bugs: Apply 1/2-1 pt. per acre. Do not apply to collards, kale, or turnip tops within 10 days. Swiss Chard within 10 days of harvest.

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

ENDIVE—Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.

MELONS (Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, *Pielons, and hybrids of these, Watermelons and their hybrids; Summer and Winter Squash) —Aphids, Leafhoppers, Mites: Apply 1-1 1/2 pts. per acre. Serpentine Leafminers, Thrips: Apply 1/2 pt. per acre. Do not apply to melons and winter squash within 7 days, or to summer squash within 7 days, of harvest.

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Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water. Do not apply within 10 days of harvest.
Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: 0 gals. of water. Do not apply within 10 days of harvest.
Aphids, Twospotted Spider Mites: Apply 1 pt. per 100 gals. of water.
Stamen Mites: Apply 1 qt. per 100 gals. of water per acre, on plant crowns. Plants should be sufficiently agitated to assure the foliage. Make additional applications, if necessary, after harvest.
Broadcast: 1 qt. per acre when insects are present. Apply 1-2 qt. per acre and immediately mix into the top 1-2 inches of soil.
Mix: 1/2-1 pt. per 100 gals. of water. Apply 200 gals. of water per acre. Do not apply within 5 days of harvest.
Mites: Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water. Codling Moths, Scale Crawlers, Walnut Caterpillars: as a foliage spray in a minimum of 100 gals. of water. Do not apply until husks open.

VEGETABLE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon 4EC should always be made as a spray in a minimum of 2 gals. of water per acre and a minimum of 10 gals. of water per acre for ground

Beans, Snap Beans, Lima Beans—Black Bean Aphids, Mexican Bean Beetles: Apply 1-1/2 pts. per acre. Cucumber Beetles: Apply 1/2 pt. per acre. Do not apply within 7 days of harvest. Bean forage may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.
erous Leafminers, Leafhoppers, Mites: Apply 1 pt. per acre. Do not apply within 10 days of harvest. Bean forage or bean hay may be fed to dairy and sheep. Wait 4 days following treatment if forage is to be cut for hay.

BROCCOLI, CAULIFLOWER—Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1/2-1 pt. per acre. Applications at 7-10 days intervals will be effective. Do not apply to broccoli or cauliflower within 5 days of harvest.

Swiss Chard, Turnip Tops—Aphids, Imported Cabbageworms: Apply 1/2-1 pt. per acre. Do not apply to Swiss Chard or turnip tops within 7 days of harvest.

Pea 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 shipped or used). Tops should not be used for feed or food.

SWISS CHARD, TURNIP TOPS—Aphids, Imported Cabbageworms, Harlequin Cabbage Bugs: Apply 1/2-1 pt. per acre. Do not apply to Swiss Chard or turnip tops within 7 days of harvest.

Serpentine Leafminers, Thrips: Apply 1 pt. per acre. Do not apply within 10 days of harvest.

Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.
Peas, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Watermelons and their hybrids; Summer Squash, Leafhoppers, Mites: Apply 1-1/2 pts. per acre. **Serpentine Leafminers:** Apply 1/2-1 pt. per acre. Do not apply to melons and summer squash within 7 days of harvest.

MUSHROOM HOUSES—Mushroom Flies (Phorids and Sciadids): Mix 1/2 gal. in 50 gals. of water (0.5% to 1.0% actual Diazinon), and spray on outside 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, and door frames after pasteurizing, mix 1/2 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, Leafminers: Apply 1/2-1 pt. per acre. Forage 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 Leafminers: Apply 1/2 pt. per acre. Do not apply within 5 days of harvest.

POTATOES—Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers: Apply at the rate of 1/2-1 pt. per acre. Banded Cucumber Beetles, Leafhopper, Southern Armyworms: Apply 1/2-1 pt. per acre. Do not apply within 35 days of harvest.

RADISHES, PARSNIPS, TURNIPS—Aphids, Flea Beetles, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.

SPINACH, BEETS—Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply to spinach within 10 days, or to beets within 14 days of harvest.

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 control the earworm. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep. Refer also to Corn Order Field and Forage Foliar Insects and Field and Forage Soil Insects.

TOMATOES—Aphids, Dipterous Leafminers: Apply 1/2 pt. per acre. To control leafminers, weekly applications are usually required. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply 1/2-1 pt. per acre. Do not apply to tomatoes within 7 days of harvest. Do not apply within 1 day of harvest.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon 4C should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

CUTWORMS (Surface and Subterranean)

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

Broadcast 2-4 qts. per acre just prior to planting. Walk into the soil to a depth of 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

GARDEN SYMPHYLANS (Centipedes)

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

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

MOLE CRICKETS

broccoli	Cauliflower	Kale	Peppers	Turnips
Brussels Sprouts	Collards	Lettuce	Kardishes	
Cabbage	Endive (Escarole)	Mustard	Tomatoes	

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 immediately work into soil 1-2 inches.

ONION MAGGOTS—Onion-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. Immediately work into soil 3-4 inches.

ROOT MAGGOTS—Broccoli, Brussels Sprouts, Cabbage, 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 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 cupful per plant, either by hand or by tractor-mounted sprayer equipped with nozzles to direct spray to the base of the plant. Transplant water treatments 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 1/2 gals. per 1,000 feet of row) in the seed furrow at planting time.

WIREWORMS

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

Broadcast 3-4 qts. per acre prior to planting, and immediately work into soil 4-8 inches. Potatoes—Wireworms: Broadcast 3-6 qts. per acre prior to planting immediately disk or harrow into soil 4-8 inches.

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

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon 4EC 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, CLOVER—Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Grasshoppers, 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 may be grazed immediately following application; (2) may be fed green alfalfa or clover immediately following treatment; and (3) may be fed hay provided alfalfa or clover is not cut for hay for 7 days following treatment. Alfalfa Weevil: For control in the spring, apply 2/3 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 hay and beef animals or sheep for 2 days. Do not cut for hay for 10 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 1-2 pts. per acre following seeding in the fall but prior to clover emergence.

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CORN—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Corn Rootworm Adults: Apply 1/2-1 pt. per acre. Corn Leaf Aphids: Apply 1-2 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. Flea Beetles: Apply 1 pt. per acre when insects first appear. Repeat applications as necessary. Grasshoppers: Apply 1 pt. per acre. Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1-2 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 spray. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

COTTON—Spider Mites, Aphids, Leafhoppers, Lygus Bug, Cotton 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 gin waste to livestock.

GUAR (Texas and Oklahoma only) Midge: Apply 1/2-1 pt. per acre in a minimum of 10 gals. of water for ground application or 2 gals. of water for aerial application when 15% of the blooms are infested. Should the infestation warrant, repeat applications should be made in 5-6 days. Do not make more than 3 applications to the same crop. Do not apply within 12 weeks of harvest. Do not graze or feed treated forage to livestock within 12 weeks of harvest.

HOPS—Aphids, Mites: Apply 1 qt. 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 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 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 1/2-1 pt. per acre. All Other Areas Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

SUGAR BEETS—Beet Leafhoppers, Dipterous Leafminers, Aphids. Apply 3/4-1 pt. per acre. Grasshoppers: Apply 1 pt. per acre. Note: Tops may be fed to beef and dairy animals.

SUGARCANE Aphids: Apply 1/2-1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO Aphids, Flea Beetles: Apply 1/2-3/4 pt. per acre. Do not apply within 3 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 4EC 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, CLOVER, LESPEDEZA, COWPEAS, SORGHUM, 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.

CORN—Corn Rootworm Larvae. Postemergence Basal Treatment: Apply 1 1/4-2 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 hiller or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not 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	Postemergence Soil Treatment (1.0 gal.)
48"	10,890	14-28
42"	12,455	15.5-31
40"	13,068	16-32 (1.2-1 qt.)
38"	13,939	17.5-35
36"	14,250	18-36
30"	17,424	22-44
24"	21,780	27.5-55
20"	26,136	32-64 (1-2 qts.)
15"	34,848	44-88

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

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 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.

SUGAR BEETS Wireworms: Broadcast 3-4 qts. per acre just prior to planting, and immediately work into soil 4-8 inches. 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 furrow at covering time.

TOBACCO Cutworms: Broadcast 2-3 qts. per acre before transplanting and immediately work into the soil 2-4 inches. Green June Beetle Larvae: Mix 1/2 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 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 immediately work into soil 1-2 inches. Seedcorn Maggots: Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Immediately work into soil 2 inches. Wireworms: Broadcast 2-3 qts. per acre 3-4 weeks before transplanting. Work immediately into soil 6-9 inches.

RANGE, PASTURE AND GRASSLAND INSECTS

Unless otherwise stated, Dazinon 4EC 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.

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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. Forage grasses may be cut for hay 7 days following treatment. Do not repeat application for 30 days.

RANGELAND, PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS BARRIER STRIPS Grasshoppers: Apply 1/2-1 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.

ORNAMENTAL INSECT CONTROL

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, European Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Oblique Root Weevils, Omnivorous Leafhoppers, Prune Mites, Scale Crawlers (Cottony-cushion, Lecanium, Elm Needle, San Jose, Soft Scale), Thrips, Twospotted Mites, Wireworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skelltonizers, Cottoncuster Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Oblique-banded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/2 fl. oz.*	3 pts.**

*1 fl. oz. = 2 tablespoons **1 1/2 fl. oz. = 1 pint

Do not use on Ferns, Fuchsia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. Minors Webworm, Mix 1/2 fl. oz. in 3 gals. of water (or 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.

FOREST INSECTS

PINE Seed Orchards, Plantation Forests: Arkansas Sawfly (Loblolly Sawfly): Apply 1/2 pt. per acre over the tree canopy. Application should be made at or near the completion of egg hatch. Aerial applications should be made with a minimum of 2 gals. of spray per acre in swaths that are not less than 90 ft. wide. Repeat application as needed.

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**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. Avoid contamination of food. Do not use on humans or permit children to go on to 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. Do not permit pets to go on to treated areas until spray has completely dried.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED*—Call a physician immediately. **DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE.** Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. 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 for at least 15 minutes with water. Call a physician immediately.

***NOTE TO PHYSICIAN**—Gastric lavage is indicated. Atropine sulfate and 2-PAM are specific antidotes.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish, and wildlife including waterfowl. Birds and waterfowl feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Do not exceed maximum permitted label rates, as 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" of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries (except for effluence from treated watercress 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 threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species. Apply this product only as specified on this label.

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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.

CHEMICAL OR PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

Diazinon 4EC (AG) is an emulsifiable solution which, when diluted with water according to directions, 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 which follow, best control is obtained when application is made at the first sign of insects. Application should be repeated as necessary to maintain control. NOTE: The California Department of Agriculture has set a 5-day reentry to 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 is applied, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried and of appropriate actions to take in case of accidental exposure (refer to Statement of Practical Treatment). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING:** Area treated with DIAZINON® 4EC (AG). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, follow these procedures. [Insert here information found under "Statement of Practical Treatment"]

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 1-1 1/2 pts. per 100 gals. of water. Parlatoria Scales, San Jose Scales. Mix 1-1 1/2 pts. 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 pt. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear. Olive Scale Crawlers. Mix 1/2 pt. of Diazinon 4EC plus 1 1/2 gals. 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 10 days of harvest.

BLUEBERRIES—Cranberry 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 7 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. Dryberry Mites. Apply 1-2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring, when canes are still in 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 qts. 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—Eyespotted Bud Moths, Fruitree Leafrollers. Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary beginning with petal fall. Cherry Fruit Flies. Mix 1-2-1 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. 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. 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. Cherry Rust Mites. Mix 1-2-1 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, Fruittree Leafrollers, Cottony-cushion Scale, Crawlers, Soft Scale, Crawlers. Apply 1/2-1 pt. per 100 gals. of water (maximum 1,000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear. Fruittree Leafrollers. Use 1/2-1 pt. per 100 gals. of spray (maximum 1,000 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 1,000 gals. per acre) when thrips first appear. Citrus Snow Scales. Apply 1-2 pts. per 100 gals. of water (maximum 1,000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, 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 (*Rhopobota naevana*). 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 Leafrollers, 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 Leafrollers. 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 Scales. Mix 3/4-1 pt. of Diazinon 4EC (AG) plus 1-1 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, 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 1/2 pt. of Diazinon 4EC (AG) plus 1-1 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 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 1/2-2 pts. per 100 gals. of water timed to coincide with peach 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 10 days, of harvest.

PECANS—Aphids, Mites, Pecan Nut Casebearer, 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.

PINEAPPLE—Scales. Apply 5 qts. of Diazinon 4EC (AG) plus 2 gals. 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, PRUNES—Brown Mites (Clover Mites), European Red Mites. Apply 1 pt. per 100 gals. of water. Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids. Apply 1-2 1/2 pt. per 100 gals. of water. Do not apply within 10 days of harvest.

STRAWBERRIES—Aphids, Two spotted Spider Mites. Apply 1 qt. per 100 gals. of water per acre. Cyclamen Mites. Apply 1 qt. per 100 gals. of water per acre. Drenching spray to plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Make additional applications, if necessary, after harvest. Mite Shovels. Broadcast 1 qt. per acre when insects are present. Apply 1-2 days before transplanting and immediately mix into the top 1-2 inches of soil. Strawberry Leafrollers. Mix 3-4 1/2 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 4EC (AG) 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, Leafminers. Apply 1-1 1/2 pts. per acre. Cucumber Beetles. Apply 3-4 pt. in 100 gals. 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. Forage is to be cut for hay.

LIMA BEANS—Dipterous Leafminers, 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, CAULIFLOWER—Aphids, Diamondback Moths, Imported Cabbageworms. Apply 1-2 1/2 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. Apply 1 qt. 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, TURNIP TOPS—Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs. Apply 1-2 1/2 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 Leafminers, Thrips. Apply 1 pt. per acre. Do not apply within 7 days of harvest.

LETTUCE, ENDIVE—Aphids, Dipterous Leafminers. Apply 1-2 1/2 pt. per acre. Do not apply within 10 days of harvest.

MELONS (Cantaloupe, Casabas, Greenshaws, Honeydew Melons, Muskmelons, Ferns and Melons, and hybrids of these, Watermelons and their hybrids, Summer and Winter Squash)—Aphids, Leafhoppers, Mites. Apply 1 1/2-2 pts. per acre. Serpentine Leafminers, Thrips. Apply 1-2 1/2 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 Sciadids). Mix 1/2 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, and door frames after pasteurizing, mix 1/2 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, Leafminers. Apply 3-4 1/2 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 Leafminers. Apply 1-2 pt. per acre. Do not apply within 5 days of harvest.

POTATOES—Aphids, Flea Beetles, Colorado Potato Beetles, Epitriptus Leafminers. Apply at the rate of 1 1/2-3/4 pt. per acre. Banded Cucumber Beetles, Leafhopper, Southern Armyworms. Apply 3/4-1 pt. per acre. Do not apply within 35 days of harvest.

RADISHES, PARSNIPS, TURNIPS—Aphids, Flea Beetles, Dipterous Leafminers. Apply 1 1/2-2 pt. per acre. Do not apply within 10 days of harvest.

SPINACH, BEETS—Aphids, Dipterous Leafminers. Apply 1-2 1/2 pt. per acre. Do not apply to spinach within 10 days, or to beets within 14 days, of harvest.

SWEET CORN—Corn Earworms. Apply 1 1/4-4 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 Leafminers. Apply 1/2 pt. per acre. To control leafminers, weekly applications are usually required. Banded Cucumber Beetles, Flea Armyworms, Southern Armyworms. Apply 3/4-1 pt. per acre. Vinegar Flea, Drosophila spp. Apply 1/2-1 1/2 pts. per acre. Weekly applications are usually required. Do not apply within 10 days of harvest.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon 450-A should always be applied to vegetable crops as a spray in a minimum of 100 gals. of water per acre for ground applications.

CUTWORMS (Surface and Subterranean)

Broccoli	Peas	Lettuce	Peppers	Sweet Corn
Brussels Sprouts	Collards	Lima Beans	Putnake	Swiss Chard
Cabbage	Cucumbers	Muskmelon	Onion Beans	Tomatoes
Cantaloupes	Endive, Escarole	Parley	Spinach	Watermelons
Cauliflower	Kale	Peas	Summer Squash	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 SYMPHLANS (Centipedes)

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

Broadcast 10 qts. per acre just prior to planting, immediately work into soil 4-6 inches. This preplant treatment will also control other soil insects such as cutworms, surface and subterranean mole crickets, root maggot, and wireworm.

MOLE CRICKETS

Broccoli	Cauliflower	Kale	Peppers	Tomatoes
Brussels Sprouts	Collards	Lettuce	Rudishes	Turnips
Cabbage	Endive (Escarole)	Mustard		

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 immediately work into soil 1-2 inches.

ONION FLEA BEETLES—Onion—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. Immediately work into soil 3-4 inches.

ROOT MAGGOTS—Broccoli, Brussels Sprouts, Cabbage, 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 1/4-1/2 pt. in 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of 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 or 1-1 1/2 gals. per 1,000 linear feet of row in the seed furrow at planting time.

WIREWORMS

Broccoli	Celery	Lima Beans	Peppers	Swiss Chard
Brussels Sprouts	Collards	Milkweeds	Potatoes	Tomatoes
Cabbage	Cucumbers	Onion	Summer Squash	Snap Beans
Cantaloupes	Endive (Escarole)	Railry	Sweet Corn	Spinach
Carrots	Kale	Fruit	Sweet Potatoes	Winter Squash
Cauliflower	Lettuce			

Broadcast 3-4 qts. per acre prior to planting and immediately work into soil 4-8 inches. Potatoes—Wireworms: Broadcast 3-5 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

SOUTHERN POTATO WIREWORMS (Southeastern U.S.)—For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast apply 2-4 qts. per acre as a pre-treatment prior to planting and immediately mix thoroughly by disking or other suitable means into the top 3-5 inches of soil depending on location of wireworms.

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon (E.C. 145) 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, CLOVER—Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites. Apply 3/4-1 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 1-3 qts. 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 2 days. Do not cut for hay for 10 days following treatment. Do not spray livestock directly with either air or ground equipment. Do not treat during bloom or seedling to protect pollinating insects.

CLOVER—Striped Ground Crickets: Broadcast 1 qt. per acre and immediately work into the field prior to clover emergence.

CORN—Use a minimum of 1 gal. of water for each quart of Diazinon. Use 10 gals. of water for ground applications. Corn Earworm Adults: Apply 1 qt. per acre. Corn Root Aphid: Apply 1-2 qts. per acre. Complete coverage of the upper portion of the plant is essential. Repeat applications as necessary. Flea Beetles: Apply 1 qt. per acre and immediately follow up with applications as necessary. Grasshoppers: Apply 1 pt. per acre and immediately follow up with applications as necessary. Mites: Apply 1 qt. per acre and immediately follow up with applications as necessary. Mites: Apply 1 qt. per acre and immediately follow up with applications as necessary. Add 1-2 gals. of soluble mineral fertilizer to the spray solution. (Consult State Agricultural Experiment Stations or State Extension Agents for fertilizer recommendations for sprays.) Corn may be picked immediately following application of Diazinon and may be fed to dairy and beef cattle and sheep.

COTTON—Spider Mites, Aphids, Leafhoppers, Lygus Bugs, Cutworms, Cotton Leaf Perforators: Apply 1-2 qts. in 25 gals. of water per acre. Repeat as indicated in warrants. Do not apply within 14 days of harvest. Do not graze treated cotton plants or feed to livestock.

GUAN (Texas and Oklahoma only)—Midge: Apply 1 qt. per acre and immediately follow up with applications of water for ground application or 2 gals. of water for aerial application. When 50% of the blooms are infested. Should the infestation warrant, repeat applications should be made every 7 days. Do not make more than 3 applications to the same crop. Do not apply within 14 days of harvest. Do not graze or feed treated forage to livestock within 14 days of treatment.

HOPS—Aphids, Mites: Apply 1 qt. per acre and immediately follow up with 14 days of treatment.

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SORGHUM—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Sorghum Midge: Apply 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 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 1/2-1 pt. per acre. All Other Areas: Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

SUGAR BEETS—Beet Leafhoppers, Pterous Leafminers, Aphids: Apply 3-4 1/2 pt. per acre. Grasshoppers: Apply 1 pt. per acre. Note: Tops may be fed to beef and dairy animals.

SUGARCANE—Aphids: Apply 1/2-1 pt. per acre. Allow 7 days between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO—Aphids, Flea Beetles: Apply 1/2-3/4 pt. per acre. Do not apply within 3 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 4EC (AG) 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, CLOVER, LEFPEDEZA, COWPEAS, SORGHUM, 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.

CORN—Corn Rootworm Larvae, Postemergence Basal Treatment: Apply 1 1/4-2 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 cult water immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt.

Suggested Rates According to Row Spacing for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Postemergence Basal Treatment (Fl. oz.)
48"	13,890	14.28
42"	12,455	15.53*
40"	13,068	16.32
		(2 1/2 qt.)
38"	13,439	17.54*
36"	14,250	18.96*
30"	17,424	22.44
24"	21,780	27.55
20"	26,136	32.64
		(1 1/2 qts)
15"	34,848	44.88

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

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PEANUTS—Outworms. 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.

SUGAR BEETS—Wireworms. Broadcast 3-4 qts. per acre just prior to planting and immediately work into soil 4-6 inches. 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 furrow at covering time.

TOBACCO—Outworms. Broadcast 2-3 qts. per acre before transplanting and immediately work into the soil 2-4 inches. Green June Beetle Larvae. Mix 1/4 pt. in 50 gals. of water and apply as a drench (100 gal. per 100 sq. yds.) to unrooted areas of plant beds with sprinkling. Male Crickets. Broadcast 1 qt. per acre when insects are present. Make application to beds in fields 7-2 days prior to sowing of seed or transplanting and immediately work into soil 1-2 inches. Seedcorn Maggots. Broadcast 3 qts. per acre 3-4 weeks before transplanting and immediately work into soil 2 inches. Wireworms. Broadcast 2-3 qts. per acre 3-4 weeks before transplanting. Work immediately into soil 6-8 inches.

RANGE, PASTURE AND GRASSLAND INSECTS

Unless otherwise stated, Dacthon 460-AG 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.

BERMUDA GRASS AND FORAGE GRASSES (other than Range and Pasture Grasses)—Thrips, Whiteflies, Grasshoppers. Apply 1 qt. per acre. Dairy and beef cattle and sheep (1) may be grazed immediately following application. (2) may be fed green forage immediately following cutting. Forage grasses may be cut for hay 7 days following treatment. Do not repeat application for 30 days.

RANGE, WETLAND, PASTURE, DITCHBANKS, ROADSIDES, WASTELAND, NONCROP AREAS BARRIER STRIPS—Grasshoppers. Apply 3-4 1/2 qt. 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 or mowed grass, 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

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 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Two-spotted Mites, Webworms, Whiteflies	2 1/2 oz.*	1 pt.**

Apple-and-Thorn Skeletonizers, Cottoncreeper Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slugs, Tent Caterpillars	2 1/2 oz.*	3 pts.**
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* 1 fl. oz. = 2 tablespoons

** 16 fl. oz. = 1 pint

Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pines, and Gardenias, since injury to the plants may occur. Mimosa Webworm. Mix 1/2 fl. oz. in 3 gals. of water, or 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.

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MOLE CRICKETS

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

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 immediately work into soil 1-2 inches.

ONION MAGGOTS—Onion—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. Immediately work into soil 3-4 inches.

ROOT MAGGOTS—Broccoli, Brussels Sprouts, Cabbage, 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 1/4-1/2 pt. or 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of 1/2 cupful per plant, either by hand or by tractor-mounted sprayer equipped with nozzles to direct spray to the base of the plant. Transplant water treatments 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 1/2 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS

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

Broadcast 3-4 qts. per acre prior to planting, and immediately work into soil 4-8 inches. Potatoes—Wireworms: Broadcast 3-5 qts. per acre prior to planting immediately disk or harrow into soil 4-8 inches.

SOUTHERN POTATO WIREWORMS (Southeastern U.S.) — For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast, apply 2-4 qts. per acre as a soil treatment prior to planting, and immediately mix thoroughly by disking, or other suitable means into the top 3-6 inches of soil, depending on location of wireworms.

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon 4EC 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, CLOVER—Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply 3/4-1 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 hay or clover immediately following cutting, and (3) may be fed hay provided 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 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 2 days. Do not cut for hay for 10 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 1-2 pts. per acre following seeding in the fall but prior to clover emergence.

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Fruit Flies: Mix 1/2-1 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. 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. 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. Cherry Rust Mites: Mix 1/2-1 pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

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CORN—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Corn Rootworm Adults: Apply 1/2-1 pt. per acre. Corn Leaf Aphids: Apply 1-2 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. Flea Beetles: Apply 1 pt. per acre when insects first appear. Repeat applications as necessary. Grasshoppers: Apply 1 pt. per acre. Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1-2 gals. of soluble mineral salts 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.

COTTON—Spider Mites, Aphids, Leafhoppers, Lygus Bug, Cotton 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 gin waste to livestock.

GIAB (Texas and Oklahoma only)—Midge: Apply 1/2-1 pt. per acre in a minimum of 10 gals. of water for ground application or 2 gals. of water for aerial application when 15% of the blooms are infested. Should the infestation warrant, repeat applications should be made in 5-6 days. Do not make more than 3 applications to the same crop. Do not apply within 12 weeks of harvest. Do not graze or feed treated forage to livestock within 12 weeks of harvest.

HOPS—Aphids, Mites: Apply 1 qt. 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 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 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 1/2-1 pt. per acre. All Other Areas—Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

SUGAR BEETS—Beet Leafhoppers, Dipterous Leafminers, Aphids—Apply 3/4-1 pt. per acre. Grasshoppers: Apply 1 pt. per acre. Note: Tops may be fed to beef and dairy animals.

SUGARCANE—Aphids: Apply 1/2-1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO—Aphids, Flea Beetles: Apply 1/2-3/4 pt. per acre. Do not apply within 3 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 4EC 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, CLOVER, LESPEDEZA, COWPEAS, SORGHUM, 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.

CORN—Corn Rootworm Larvae: Postemergence Bait Treatment—Apply 1 1/4-2 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 tiller or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not 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

Row Spacing	Linear Feet Corn Row/100
48"	10,850
42"	12,455
40"	13,063
38"	13,939
36"	14,250
30"	17,424
24"	21,780
20"	26,130
15"	34,848

NOTE: For row spacings not listed, call the 40-inch row figure. Seed Corn Maggots to planting. Work immediately into soil 2 inches. Broadcast 2-4 qts. per acre. For planting or when larvae first appear, and Do not apply later than lay-by. For subterranean planting and immediately work into soil 3-6 inches prior to planting and immediately work into soil 3-6 inches following last application. Do not graze or feed treated forage to livestock.

PEANUTS—Cutworms: Apply 2 qts. per acre. Thorough coverage of the foliage is essential. Two or three additional applications may be necessary. Do not apply within 21 days of peanut harvest. (1) may be fed peanut forage 7 days following treatment. (2) may be fed peanut hay 21 days following treatment.

SUGAR BEETS—Wireworms: Broadcast 3-4 qts. per acre. Immediately work into soil 4-8 inches.

SUGARCANE—Wireworms: Apply 1 gal. per acre. Make application directly to the furrow.

TOBACCO—Cutworms: Broadcast 2-3 qts. per acre. Immediately work into the soil 2-4 inches. In 50 gals. of water and apply as a drench to areas of plant beds with sprinkling can. Make application when insects are present. Make application to soil of seed or transplanting, and immediately work into soil 2 inches. Wireworms: Broadcast 3-4 qts. per acre. Broadcast 3-4 qts. per acre. Immediately work into soil 6-8 inches.

RANGE, PASTURE AND

Unless otherwise stated, Diazinon 4EC should always be applied to range and pasture crops as a spray in a minimum of 1 gal. of water per acre for aerial applications and 5 gals. of water per acre for ground applications.

CITRUS FRUITS (Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus Citions, Kumquats, and hybrids of these)—Citrus Aphids, Fruittree Leafrollers, Cottony-cushion Scale Crawlers, Soft Scale Crawlers: Apply 1/2-1 pt. per 100 gals. of water (maximum 1,000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear. Fruittree Leafrollers: Use 1/2-1 pt. per 100 gals. of spray (maximum 1,000 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 1,000 gals. per acre) when thrips first appear. Citrus Snow Scales: Apply 1-2 pts. per 100 gals. of water (maximum 1,000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, 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 (*Rhopobota nysana*): 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 Leafrollers, 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-folders: 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 Scales: Mix 3/4-1 pt. of Diazinon 4EC plus 1 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, NECTARINES—Aphids, Brown Mites (Clover Mites), Twospotted 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 1/2 pt. of Diazinon 4EC, plus 1 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 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, two applications may be necessary. Do not apply to peaches within 20 days, or to nectarines within 10 days, of harvest.

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

PINEAPPLE—Scales: Apply 5 qts. of Diazinon 4EC plus 2 gals. of light or medium horticultural oil in 500 gals. of water per acre to the vegetative tops 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. Nastipale forage and refuse may be fed to livestock 7 days following application.

PLUMS, PRUNES—Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water. Leafcurl Plum Aphids, Mealy Plum Aphids, Insect Aphids: Apply 1/2-1 pt. per 100 gals. of water. Do not apply within 10 days of harvest.

STRAWBERRIES—Aphids, Twospotted 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 1-2 days before transplanting and immediately mix into the top 1-2 inches of soil. Strawberry Leafrollers: Mix 3/4-1 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 4EC 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, Leafminers: Apply 1-1 1/2 pts. per acre. Cucumber Beetles: Apply 1 pt. in 100 gals. 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 Leafminers, 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, CAULIFLOWER—Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1/2-1 pt. per acre. Applications at 7-10 days 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: Apply 1 qt. 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, TURNIP TOPS—Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs: 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 Leafminers, Thrips: Apply 1 pt. per acre. Do not apply within 5 days of harvest.

ENDIVE, ENDIVE—Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.

MELONS (Cantaloupes, Casabas, Creamers, Honeydew Melons, Muskmelons, Watermelons, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash)—Aphids, Leafhoppers, Mites: Apply 1-1 1/2 pts. per acre. Serpentine Leafminers, Thrips: Apply 1/2-1 pt. per acre. Do not apply to melons and winter squash within 3 days, or to summer squash within 7 days, of harvest.

BERMUDAGRASS AND FORAGE GRASSES (other than Bango and Pasture Grasses)—Thrips, Whiteflies, Grasshoppers: Apply 1 pt. per acre. Dairy and beef cattle and sheep may be grazed immediately following application. (2) may be fed green forage immediately following cutting. Forage grasses may be cut for hay 7 days following treatment. Do not repeat application for 30 days.

RANGE, PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, BARRIER STRIPS—Grasshoppers: Apply 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 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.

ORNAMENTAL INSECT CONTROL

To control injurious insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladiolus, Hawthorn, Holly, Juniper, Ligustrum, 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 Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Twospotted Mites, Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cottoneseater Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Obliquebanded Leafrollers, Pear Slug, Tent Caterpillars	1 1/2 fl. oz.*	3 pts.**

*1 fl. oz. = 2 tablespoons **16 fl. oz. = 1 pint
Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. Mimosa Webworms: Mix 1/2 fl. oz. in 3 gals. of water (or 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.

FOREST INSECTS

PINE (Seed Orchards, Plantations, Forests)—Arkansas Sawfly (Loblolly Sawfly): Apply 1/2 pt. per acre over the tree canopy. Application should be made at or near the completion of egg hatch. Aerial applications should be made with a minimum of 2 gals. of spray per acre, in swaths not more than 90 ft. wide. Repeat application as needed.

MUSHROOM HOUSES—Mushroom Flies: 50 gals. of water (0.5% to 1.0% actual Diazinon) should be sprayed on the walls and ventilators of mushroom houses, raised by heating. Do not spray compost on the sides of beds, posts, doors, and door frames. Water and apply with a brush. Do not apply within 10 days of harvest.

ONIONS—Onion Thrips: Apply 1 pt. per acre.

PEAS—Aphids, Leafminers: Apply 3/4-1 pt. immediately. Pea vines and pea vine hay may be fed to sheep. Wait 4 days following treatment.

PEPPERS—Aphids, Serpentine Leafminer: Apply 1/2-1 pt. per acre. Do not apply within 5 days of harvest.

POTATOES—Aphids, Flea Beetles, Colorado Potato Beetles: Apply 1/2-3/4 pt. per acre. Southern Armyworms: Apply 3/4-1 pt. per acre.

RADISHES, PARSNIPS, TURNIPS—Aphids: Apply 1/2-1 pt. per acre. Do not apply within 7 days of harvest.

SPINACH, BEETS—Aphids, Dipterous Leafminer: Apply 1/2-1 pt. per acre. Do not apply to spinach within 10 days, or to beets within 7 days, of harvest.

SWEET CORN—Corn Earworms: Apply 1/2-1 pt. per acre. Two or three repeat applications at 2-3 week intervals. Corn may be picked immediately following treatment for dairy and beef cattle and sheep. Do not apply to corn within 10 days of harvest.

TOMATOES—Aphids, Dipterous Leafminer, Leafminers, weekly applications are usual. Armyworms, Southern Armyworms: Apply 3/4-1 pt. per acre. Apply 1/2-1 pt. per acre. Do not apply within 1 day of harvest.

VEGETABLE SPRAYS

Unless otherwise stated, soil applications should 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.

Cutworms (Surface and Subterranean)	Broccoli	Celery	Lettuces
Brussels Sprouts	Collards	Lima Beans	Mustards
Cabbage	Cucumbers	Peas	Peas
Cantaloupes	Endive (Escarole)	Parley	Peas
Cauliflower	Kale	Peas	Peas

Broadcast 2-4 qts. per acre (just prior to planting) for surface cutworms, 3-6 inches deep for subterranean cutworms.

GARDEN SYMPHYTES (Centipedes)
Cabbage, Corn, Peas
Carrots, Lettuce, Pole Beans
Broadcast 10 qts. per acre (just prior to planting). This preplant treatment will kill worms (surface and subterranean), mole crickets, and mole worms.

LAWN INSECTS

To control insects listed below, apply Diazinon 4EC in a 5-ft. band of soil along foundation wall to a height of 2-3 ft. above ground level.

Insects	Rate/1,000 sq. ft.
Lawn Chinch Bugs	2-3 fl. oz. or 3-6 fl. oz.

Insects	Rate/1,000 sq. ft.
Ants, Armyworms, Clover Mites, Collembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Fire Flies, Lawn Billbugs, Soil Webworms (Lawn Moths), Sowbugs	4 fl. oz.

Insects	Rate/1,000 sq. ft.
Brown Dog Ticks, Bermuda Mites, Chigoe Fleas, Leafhoppers	1 1/4 fl. oz.
Millipedes	8 fl. oz.
Rhodesgrass Scales	5 fl. oz.

*Or, make application in 3 gal. of water thoroughly water immediately.

BOXELDER BUGS—Spray bugs outside of house in 1 gal. water. At the ceiling, windows, doors, tree trunks, and insect hide.

BILLBUGS, WHITE GRASS (such as Southern chafers): Apply 4 fl. oz. per 10 sq. ft. after application. For grub control make early October. For billbug control when chewed or brown grass is present.

HYPERODES WEEVIL (New York or grass. Water grass thoroughly after application again in mid-May.

Suggested Rates According to Row Spacing for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Postemergence (1/2-1 qt.)	Basal Treatment (fl. oz.)
48"	10,890'	14-28	
42"	12,455	15-31	
36"	13,068	16-32	
30"	13,939	17-35	
24"	14,250	18-36	
20"	17,424	22-44	
15"	21,780	27-55	
12"	26,184	32-64	
9"	34,848	44-88	

NOTE: For row spacings not listed, calculate the appropriate dosage rates on the 40-inch row figure. Seed Corn Maggots: Broadcast 2-4 qts. per acre just prior to planting. Work immediately into soil 2 inches. Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear, and immediately work into soil 1-2 inches. Do not apply later than lay-by. For subterranean cutworms apply just prior to planting and immediately work into soil 3-6 inches. Wireworms: Apply 3-4 qts. per acre prior to planting and immediately work into the soil 4-8 inches. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

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 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.

SUGAR BEETS—Wireworms: Broadcast 3-4 qts. per acre just prior to planting, and immediately work into soil 4-8 inches. 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 furrow at covering time.

TOMATOES—Cutworms: Broadcast 2-3 qts. per acre before transplanting and immediately work into the soil 2-4 inches. Green June Beetle Larvae: Mix 1/2 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 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 immediately work into soil 1-2 inches. Seedcorn Maggots: Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Immediately work into soil 2 inches. Wireworms: Broadcast 2-3 qts. per acre 3-4 weeks before transplanting. Work immediately into soil 6-9 inches.

RANGE, PASTURELAND GRASSLAND INSECTS

Unless otherwise stated, Diazinon 4EC should always be applied as a spray in a minimum of 1 gal. of water per acre for aerial applications and a minimum of 3 gals. of water per acre for ground applications.



Diazinon[®] 4EC (AG)

Insecticide for control of certain insects on fruits, nuts, vegetables, field crops, and ornamentals.

KEEP OUT OF REACH OF CHILDREN

WARNING — AVISO

PRECAUTION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

See Back Panel For Statement of Practical Treatment and Additional Precautionary Statements.

ACTIVE INGREDIENTS:

O,C-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	48.0%
Xylene	38.8%

INERT INGREDIENTS	13.2%
Total	100.0%

Diazinon 4 EC contains 4 lbs. Diazinon per gallon.
Diazinon Trademark of Ciba Geigy.

Net Contents: 1 Gallon
Product 203

EPA Reg. No. 1386-599
EPA Est. No. 1386-OH-1



UNIVERSAL COOPERATIVES, INC., MINNEAPOLIS, MN 55440

**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. Avoid contamination of food. Do not use on humans or permit children to go on to 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. Do not permit pets to go on to treated areas until spray has completely dried.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED*—Call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. 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 for at least 15 minutes with water. Call a physician immediately.

***NOTE TO PHYSICIAN**—Gastric lavage is indicated. Atropine sulfate and 2-PAM are specific antidotes.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish, and wildlife including waterfowl. Birds and waterfowl feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Do not exceed maximum permitted label rates, as 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" of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries (except for effluence from treated watercross 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 threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species. 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.

CHEMICAL OR PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

DIRECTIONS FOR USE

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

SEE ATTACHED BOOKLET FOR COMPLETE USE DIRECTIONS.

STORAGE AND DISPOSAL

STORAGE: Do not store near heat or open flame.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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: 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.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

SUPPLEMENTAL LABELING
— DIRECTIONS FOR USE —

DIAZINON 4EC (AG)

Insecticide for control of certain insects on fruits,
nuts, vegetables, field crops and ornamentals.

Refer to container label for additional Precautionary
Statements and Statement of Practical Treatment.

EPA Reg. No. 1386-599

PRODUCT 203

Diazinon Trademark of CIBA GEIGY



UNIVERSAL COOPERATIVES, INC., MINNEAPOLIS, MN 55440

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

GENERAL INFORMATION

Diazinon 4EC is an emulsifiable solution which, when diluted with water according to directions, 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 which follow, best control is obtained when application is made at the first sign of insects. Application should be repeated as necessary to maintain control. **NOTE:** The California Department of Agriculture has set a 5-day reentry 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 is applied, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried or designated intervals have passed and of appropriate actions to take in case of accidental exposure (refer to Statement of Practical Treatment). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING: Area treated with DIAZINON® 4EC (AG). Do not enter without appropriate protective clothing until sprays have dried or appropriate interval has passed. In case of accidental exposure, follow these procedures: (insert information found under 'Statement of Practical Treatment')."

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 1-1/2 pts. per 100 gals. of water. Paratortia Scales, San Jose Scales: Mix 1-1/2 pts. Diazinon plus 23 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), Twospotted 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 1/2 pt. of Diazinon 4EC plus 1 1/2 gals. 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 10 days of harvest.

BLUEBERRIES - Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Twospotted Mites: Mix 1 pt. per 100 gals. of water. Apply up to 200 gals. of spray per acre. Do not apply within 7 days of harvest.

CANEBERRIES, BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES - Leafhoppers, Thrips, Aphids, Twospotted 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. Dryberry Mites: Apply 1-2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring, when

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be well developed, but still closed. Do not apply within 7 days of harvest. Raspberry Crown Borers (Raspberry Root Borers): Apply 2 qts. per acre in a minimum of 100 gals. of water as a drench to the crown area and to the lower ones. Apply either in the spring before berries begin to form, or in the fall after harvest.

CHERRIES—Eyespotted Bud Moths, Fruitree Leafrollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary beginning with petal fall. Cherry Fruit Flies: Mix 1/2-1 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. 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. 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. Cherry Rust Mites: Mix 1/2-1 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, Fruitree Leafrollers, Cottony-cushion Scale Crawlers, Soft Scale Crawlers: Apply 1/2-1 pt. per 100 gals. of water (maximum 1,000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear. Fruitree Leafrollers: Use 1/2-1 pt. per 100 gals. of spray (maximum 1,000 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 1,000 gals. per acre) when thrips first appear. Citrus Now Scale: Apply 1-2 pts. per 100 gals. of water (maximum 1,000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, 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 (*Rhopobota naevana*): Apply 2 qts. in 100 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 Leafrollers, 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 Leafrollers: 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 l. 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 Scales: Mix 1/4-1 pt. of Diazinon 4EC plus 1/2 gal. 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 within 75 days of harvest.

PEACHES, NECTARINES—Aphids, Brown Mites (Clover Mites), Twospotted 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 1/2 pt. of Diazinon 4EC, plus 1/2 gal. 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 1/2-2 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 10 days, of harvest.

PECANS—Aphids, Mites, Pecan Nut Casebearers, Walnut Caterpillars: Apply 1-2 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks crack.

PINEAPPLE—Scales: Apply 5 qts. of Diazinon 4EC plus 2 gals. 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, PRUNES—Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water. Leafcurl 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, Twospotted 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 1-2 days before transplanting and immediately mix into the top 1-2 inches of soil. Strawberry Leafrollers: 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 4EC 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, Leafminers: Apply 1-1/2 pts. per acre. Cucumber Beetles: Apply 3/4 pt. in 100 gals. 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 Leafminers, 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, 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: Apply 1 qt. 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 marked trimmed (tops removed) before being shipped or used. Tops should not be used for feed or food.

COLLARDS, KALE, SWISS CHARD, TURNIP TOPS—Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bug: 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 Leafminers, Thrips: Apply 1 pt. per acre. Do not apply within 7 days of harvest.

LETTUCE, ENDIVE—Aphids, Dpterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.

MELONS (Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash—Aphids, Leafhoppers, Mites: Apply 1-1 1/2 pts. per acre. Serpentine Leafminers, Thrips, Apply 1/2-1 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 Sclerids): Mix 1/2-1 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 beds, posts, doors, and door frames after pasteurizing, mix 1/2 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, Leafminers: Apply 3/4-1 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 Leafminers: Apply 1/2 pt. per acre. Do not apply within 5 days of harvest.

POTATOES—Aphids, Flea Beetles, Colorado Potato Beetles, Dpterous Leafminers: Apply at the rate of 1/2-3/4 pt. per acre. Banded Cucumber Beetles, Leafhopper, Southern Armyworms: Apply 3/4-1 pt. per acre. Do not apply within 35 days of harvest.

RADISHES, PARSNIPS, TURNIPS—Aphids, Flea Beetles, Dpterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest.

SPINACH, BEETS—Aphids, Dpterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply to spinach within 10 days, or to beets within 14 days of harvest.

CORN—Corn Earworms: Apply 1-1 1/4 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, Dpterous Leafminers: Apply 1/2 pt. per acre. To control leafminers, weekly applications are usually required. Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply 3/4-1 pt. per acre. Vinegar Flies (*Drosophila* spp.): Apply 1/2-1 1/2 pts. per acre. Weekly applications are usually required. Do not apply within 1 day of harvest.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon 4EC should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

CUTWORMS (Surface and Subterranean)

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

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area. Extensive, cut the hay and make application to the stubble. Do not graze dairy and beef animals or sheep for 2 days. Do not cut for hay for 10 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 1-2 pts. per acre following seeding in the fall but prior to clover emergence.

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 SYMPHLANS (Centipedes)

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

Broadcast 10 qts. per acre just prior to planting. Immediately work into soil 4-8 inches. This preplant treatment will also control other soil insects such as cut worms (surface and subterranean), mole crickets, root maggots, and wireworms.

MOLE CRICKETS

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

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 immediately work into soil 1-2 inches.

ONION MAGGOTS—Onion—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. Immediately work into soil 3-4 inches.

ROOT MAGGOTS—Broccoli, Brussels Sprouts, Cabbage, 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 1/4-1/2 pt. in 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of 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 1/2 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS

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

Broadcast 3-4 qts. per acre prior to planting, and immediately work into soil 4-8 inches. Potatoes—Wireworms: Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

SOUTHERN POTATO WIREWORMS (Southeastern U.S.) — For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast, apply 2-4 qts. per acre as a soil treatment prior to planting, and immediately mix thoroughly by disking, or other suitable means into the top 3-6 inches of soil, depending on location of wireworms.

FIELD AND FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon 4EC 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, CLOVER—Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply 3/4-1 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 tips becomes evident. Repeat application, if necessary. If damage is

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spacing chart for amounts recommended per acre. Cover treated band with 2 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 24 in the Middle Corn Belt, or July 1 in the Northern Corn Belt.

CORN—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Corn Rootworm Adults: Apply 1/2-1 pt. per acre. Corn Leaf Aphids: Apply 1-2 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. Flea Beetles: Apply 1 pt. per acre when insects first appear. Repeat applications as necessary. Grasshoppers: Apply 1 pt. per acre. Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1-2 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.

COTTON—Spider Mites, Aphids, Leafhoppers, Lygus Bug, Cotton 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 gin waste to livestock.

GUAR (Texas and Oklahoma only)—Midge: Apply 1/2-1 pt. per acre in a minimum of 10 gals. of water for ground application or 2 gals. of water for aerial application when 15% of the blooms are infested. Should the infestation warrant, repeat applications should be made in 5-6 days. Do not make more than 3 applications to the same crop. Do not apply within 12 weeks of harvest. Do not graze or feed treated forage to livestock within 12 weeks of harvest.

HOPS—Aphids, Mites: Apply 1 qt. 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 Midges: Apply 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 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 1/2-1 pt. per acre. All Other Areas—Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

SUGAR BEETS—Beet Leafhoppers, Dipterous Leafminers, Aphids—Apply 3/4-1 pt. per acre. Grasshoppers: Apply 1 pt. per acre. Note: Tops may be fed to beef and dairy animals.

SUGARCANE—Aphids: Apply 1/2-1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO—Aphids, Flea Beetles: Apply 1/2-3/4 pt. per acre. Do not apply within 3 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 4EC 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, CLOVER, LESPEDEZA, COWPEAS, SORGHUM, 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.

CORN—Corn Rootworm Larvae: Postemergence Basal Treatment—Apply 1 1/4-2 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

Suggested Rates According to Row Spacing for Corn Rootworm Insect Control

Row Spacing	Linear Feet of Corn Row/Acre	Postemergence Basal Treatment (Fl. oz)
48"	10,890	14.28
42"	12,455	15.531
40"	13,068	16.32 (1/2-1 qt.)
38"	13,939	17.525
36"	14,250	18.36
30"	17,424	22.44
24"	21,780	27.555
20"	26,136	32.62 (1-2 qts.)
15"	34,848	44.88

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

PEANUTS—Cutworms: Apply 2 qts. per acre in a 2-inch band over the row. Thorough coverage of the foliage is essential. Begin application when small larva 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.

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

SUGARCANE—Wireworms: Apply 1 gal. per acre in a 12-inch grid centers over the furrow. Make application directly to seed pieces in open furrow at cover time.

TOBACCO—Cutworms: Broadcast 2-3 qts. per acre before transplanting and immediately work into the soil 2-4 inches. Green June Beetle Larvae: Mix 1/2 lb. in 50 gals. of water and apply as a drench (100 gal. per 100 sq. yds.) to uprooted areas of plant beds with sprinkling can. Mole Cricket: Broadcast 1 qt. per acre when insects are present. Make application to beds 1-2 days prior to planting of seed or transplanting, and immediately work into soil 1-2 inches. Seed Corn Maggots: Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Immediate work into soil 2 inches. Wireworms: Broadcast 2-3 qts. per acre 3-6 weeks before transplanting. Work immediately into soil 6-9 inches.

To control certain insects on Arbrevitae, 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 Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beet, Holly Bud Moths, Leafhoppers, Obscure Root Wee, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Twospotted Mites, Webworms, Whiteflies	½ fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cottoncater Webworms, Fall Webworms, Hamlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1½ fl. oz.*	3 pts.**

*1 fl. oz. = 2 tablespoons

**16 fl. oz. = 1 pint

Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. Mimosa Webworm: Mix ½ fl. oz. in 3 gals. of water (or 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.

FOREST INSECTS

PINE (Seed Orchards, Plantations, Forests)—Arkansas Sawfly (Loblolly Sawfly): Apply ½ pt. per acre over the tree canopy. Application should be made at or near

DELETED

Clover Mites, Collembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs

2-4

4 fl. oz.

3 gals.

Spot spray on mites and weep ground nest openings.
for lawn billbugs, irrigate the lawn thoroughly immediately after treatment.

for frit 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

1¼ 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.

Rhodesgrass Scales

5 fl. oz.

25 gals.*

Apply when crawlers first emerge.

*Or, make application in 3 gals. of water per 1000 sq. ft. and thoroughly water immediately following application.

BOXELDER BUGS—Spray bugs outside the home with 1¼-2½ fl. oz. (2½-5 tablespoons) in 1 gal. water. At the same time, thoroughly spray ground foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

BILLBUGS, WHITE GRUBS (such as Japanese beetle larvae, European chafer, Southern chafer): Apply 4 fl. oz. per 1000 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 1000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

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