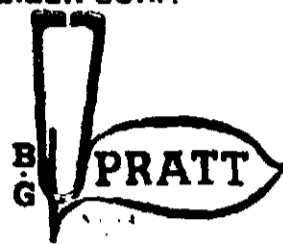


PRATT-GABRIEL DIVISION



MILLER CHEMICAL & FERTILIZER CORP.



LAWN INSECT CONTROL

For control of lawn insects, apply Diazinon * AG4E to the lawn in the following manner: Apply 4 fl. oz. per 1,000 sq. ft. of lawn. Water grass thoroughly after application. For grub control make application any time between late July and early October. For bug control apply when activity is first observed or when chewed or brown grass is present, indicating damage by this insect.

Insects	Diazinon * AG4E	Water	Directions
White Grubs (Japanese Beetle Larvae, European Chaffer and Southern Chaffer)	4 fl. oz.	25 gals.	Apply to lawn in late July and early October. Water grass thoroughly after application.
Ants (Army Ants, Fire Ants, etc.)	4 fl. oz.	3 gals.	Spray ant hills and wash ground with water. For lawn bugs, spray the lawn thoroughly immediately after treatment.
Brown Dog Ticks, Bermuda Mites, Chiggers, Fleas, Leafhopper, Ticks	1 fl. oz.	3 gals.	Do not apply to animals. For brown dog ticks spray grass and under shrubbery, particularly near house.
Milipedes	8 fl. oz.	3 gals.	
Grasshopper	5 fl. oz.	25 gals.	Apply when grasshoppers first emerge.

Or make application in 3 gals. of water per 1,000 sq. ft. and thoroughly water immediately following application.

White Grubs (Japanese Beetle Larvae, European Chaffer and Southern Chaffer) Apply 4 fl. oz. per 1,000 sq. ft. of lawn. Water grass thoroughly after application. For grub control make application any time between late July and early October. For bug control apply when activity is first observed or when chewed or brown grass is present, indicating damage by this insect.

Cyberus Weevil (New York only) Apply 3 fl. oz. per 1,000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

Boxelder Bugs Spray bugs outside the home with 1/2 fl. oz. (2.5 tablespoons) in 1 gal. of water. At the same time thoroughly spray around foundation, windows, doors, tree trunks and into cracks and other places where the insects hide.

FOREST INSECTS

PINE (Seed Orchards, Plantations, Forests) (Arkansas Sawfly (Loblolly Sawfly)) Apply 1 qt. per acre over the tree canopy. Application should be made within a minimum of 2 gals. of spray per acre in swaths not more than 90 ft. wide. Repeat application as needed.

LIMITED WARRANTY

BUYER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING OF THIS MATERIAL NOT IN STRICT ACCORDANCE WITH DIRECTIONS GIVEN HERewith.

DIAZINON®* AG4E

INSECT SPRAY

FOR PROFESSIONAL USE ONLY

FOR CONTROL OF

INSECTS ON FRUITS, VEGETABLES, FIELD CROPS, TURF & ORNAMENTALS

as listed on the label

ACCEPTED
FEB 3 1981
ACTIVE INGREDIENTS
Diazinon * AG4E is an emulsifiable solution which, when diluted with water according to the direction below, is intended for the control of insect pests of agricultural crops. Do not use in barns or dwellings. Do not use on livestock.

Diazinon * AG4E	48%
0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	36%
Fertilizer grade Potassium Nitrate, Xylene	16%
INERT INGREDIENTS:	
Total	100%

DIAZINON * AG4E CONTAINS 4 LBS. DIAZINON * PER GALLON
Diazinon *— Trademark of CIBA-GEIGY Corp., Ardsley, New York
KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

If **SWALLOWED**, promptly induce vomiting and get medical help promptly. Atropine is antidotal.
If **INHALED** remove victim to fresh air. Apply respiration if indicated.
If **ON SKIN**, wash with soap and water.
If **IN EYES**, wash eyes for at least 15 minutes with water. Call a physician immediately.
See side panel for additional precautionary statements.

MANUFACTURED BY:
PRATT-GABRIEL DIVISION, MILLER CHEMICAL & FERTILIZER CORP.
HANGOVER, PA 17336

EPA REG NO 904-306
EPA EST 72-PA-1
PROD. NO 23600 **NET CONTENTS** □ □ □ □ **GALLONS**
1 5 30 55

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DIAZINON®* AG4E

INSECT SPRAY

PROFESSIONAL USE ONLY

FOR CONTROL OF

FRUITS, VEGETABLES,

TURF & ORNAMENTALS

listed on the label

able solution which, when diluted with water
is intended for the control of insect pests of
barns or dwellings. Do not use on livestock.

6-methyl-4-pyrimidinyl)	48%
.....	36%
.....	16%
Total	100%

CONTAINS 4 LBS. DIAZINON * PER GALLON
of CIBA-GEIGY Corp., Ardsley, New York
KEEP OUT OF REACH OF CHILDREN

WARNING

OF PRACTICAL TREATMENT

may induce vomiting and get medical help
total.
in to fresh air. Apply respiration if indicated.
vap and water.
at least 15 minutes with water. Call a physician.
nal precautionary statements.

MILLER CHEMICAL & FERTILIZER CORP.
LANGFORD, PA 17331

EPA EST 72-PA-1

NET CONTENTS GALLONS
1 5 30 55

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. May be irritating to the eyes, nose, throat, and skin. Do not breathe dust or spray. Avoid contact with eyes, nose, mouth, and skin. Wash thoroughly after handling. Avoid contact with food and feed. Keep out of reach of children and animals. Do not use on humans or household pets. Do not permit children or pets to play in sprayed areas until spray has completely dried.

ENVIRONMENTAL HAZARDS

Do not apply to water bodies or to areas where birds, fish, or other aquatic life may be found. Keep out of lakes, streams, ponds, rivers, creeks, and other bodies of water. Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crabs and other aquatic life are important to the economy. This pesticide is toxic to birds in areas where impact on threatened and endangered species is likely. Contact your State Fish and Game Agency before applying this product. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop. Cover crop or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTION FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide, spray mixture or residue that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Triple rinse (or equivalent) container and offer for recycling, reconditioning or disposal in approved landfill or bury in a safe place. Consult Federal, State or Local disposal authorities for approved alternative procedures.

Pratt Diazinon (R) AG4E Insect Spray is an emulsifiable solution which, when diluted with water according to directions, is intended for the control of insect pests or 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. Applications should be repeated as necessary to maintain control.

NOTE: The California Department of Agriculture has set a 5 day re-entry for Diazinon (R) on citrus, grapes, peaches and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with the treated foliage. When a mixture of 2 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 following rates should be applied as a dilute full cover spray.

ALMONDS (Mites, Twig Borers): Apply 1-1 1/2 pts. per 100 gals of water (Pariatoria Scales, San Jose Scales): Mix 1-1 1/2 pts of Diazinon (R) AG4E 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 1/2 pt Diazinon (R) AG4E plus 1/2 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 or apply 2 pts per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.

CANEBERRIES, BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES (Leafhoppers, Thrips, Aphids, Twospotted Mites, Raspberry Sawflies): Mix 1 pt per 100 gals of water and apply up to 200 gals of spray per acre or apply 2 pts per acre in sufficient water for thorough coverage. (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.

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 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 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-bloom stage when scale crawlers first appear. Do not apply within 10 days of harvest. (Cherry Rust Mites): Mix 1/2 pt per 100 gals of water. Apply as a supplemental spray after harvest.

CITRUS FRUITS, GRAPEFRUITS, LEMONS, LIMES, TANGELOS, TANGERINES, CITRUS, CITRON, KUMQUATS and hybrids of these (Citrus Aphids, Fruitree Leafrollers, Cottoncushion Scale Crawlers, Soft Scale Crawlers): Apply 1 pt per 100 gals of water (Maximum 1 1/2 pts per acre) as a thorough cover spray when aphids and crawler stages of insects first appear. (Fruitree Leafrollers): Use 1/2 pt per 100 gals of water (Maximum 1 000 gals per acre) when an average of 50% of eggs or 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 Scale): Apply 1-2 pts per 100 gals of water (Maximum 1 000 gals per acre) as a post-bloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunks, limbs and tags 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 (Blackheaded 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 15 days of harvest. (Drosophila spp): Apply 1/2 pt per 100 gals of water 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 1/2 pt Diazinon (R) AG4E 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 maturing 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 (R) AG4E 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 pts per 100 gals of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, 2 applications may be necessary. Do not apply to peaches within 20 days or to nectarines within 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 the nuts crack.

PINEAPPLE (Scales): Apply 5 qts of Diazinon (R) AG4E plus 2 gal 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 foliage 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 1-1 1/2 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.

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Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water... (Mole Crickets) Apply 1 qt. per acre...

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 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water...

VEGETABLE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon (R) AG4E 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... **LIMA BEANS (Dipterous Leafminers, Leafhoppers, Mites)** Apply 1 pt. per acre...

BROCCOLI, CABBAGE & CAULIFLOWER (Aphids, Diamondback Moths, Imported Cabbageworms) Apply 1 pt. per acre... **BRUSSELS SPROUTS (Aphids, Diamondback Moths, Imported Cabbageworms)** Apply 1 pt. per acre...

CARROTS (Aphids) Apply 1 pt. per acre... **CELERY (Aphids, Flea Beetles)** Apply 1 pt. in 100 gals. of water per acre...

COLLARDS, KALE, SWISS CHARD & TURNIP TOPS (Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs, Corn Earworms) Apply 1 pt. per acre... **CUCUMBERS (Aphids, Serpentine Leafminers, Thrips)** Apply 1 pt. per acre...

LETTUCE & ENDIVE (Aphids, Dipterous Leaf Miners) Apply 1 pt. per acre... **MELONS & SQUASH, CANTALOUPE, CASABAS, CRENSHAW, HONEYDEW MELONS, MUSKMELONS, PERSIAN MELONS and hybrids of these WATERMELONS and their hybrids, SUMMER & WINTER SQUASH (Aphids, Leafminers, Mites)** Apply 1-1 1/2 pts. per acre...

MUSHROOM HOUSES (Mushroom Flies - Phoridae & Sciariae) Mix 1-1 1/2 gal. in 50 gals. of water (0.5% - 1.0% actual Diazinon) and spray on outside and inside walls and ventilators of mushroom houses after complete in beds has been pasteurized...

DIRECTIONS FOR CONTROL OF PHORID AND SCIARID FLIES IN MUSHROOM HOUSES

Spray on compost at time of spawning and thoroughly incorporate through compost using spawning machine or other mechanical means.

Apply at the rate of the following depth of mixing capacity:
2 pints Diazinon AG4E per 1,000 sq. ft. when mixed in 6 inches
1 2/3 pints Diazinon AG4E per 1,000 sq. ft. when mixed in 5 inches
1 1/3 pints Diazinon AG4E per 1,000 sq. ft. when mixed in 4 inches
1 pint Diazinon AG4E per 1,000 sq. ft. when mixed in 3 inches
2/3 pint Diazinon AG4E per 1,000 sq. ft. when mixed in 2 inches

DILUTE THE AMOUNT INDICATED ABOVE FOR THE DEPTH TO BE TREATED WITH 20 TO 30 GALLONS OF WATER FOR EACH 1,000 SQUARE FEET.

These rates will yield an active ingredient concentration of 100 ppm. Do not apply more than once per crop. Do not apply after spawning. The application of Diazinon should be used only when mushroom flies are a chronic problem because Diazinon applied to the beds tends to delay and reduce mushroom production.

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

PEAS (Aphids, Leaf Miners) Apply 1-1 1/2 pts. per acre. Peas may be picked immediately. Pod vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

PEPPERS (Aphids, Serpentine Leaf Miners) Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

POTATOES (Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf Miners) Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre. **(Banded Cucumber Beetles, Leafhoppers, Southern Armyworms)** Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

RADISHES, PARSNIPS & TURNIPS (Aphids, Flea Beetles, Dipterous Leaf Miners) Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

SPINACH & BEETS (Aphids, Dipterous Leafminers) Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

SQUASH - SUMMER & WINTER MELONS & SQUASH

SWEET CORN (Corn Earworms) Apply 1-1 1/2 pts. per acre as a foliage spray in a minimum of 100 gals. of water per acre. **(Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms)** Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

TOMATOES (Aphids, Dipterous Leafminers) Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre. **(Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms)** Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

WATERCRESS (Hawaii Only) (Cyclamen Mite) Mix 1 qt. per 100 gals. of water and apply to 1 acre as a thorough cover spray. Do not apply within 10 days of harvest. **(Colorado Potato Beetles, Flea Beetles)** Apply 1 pt. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon (R) AG4E should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for ground applications.

CUTWORMS (SURFACE & SUBTERRANEAN) (Broccoli, Brussels Sprouts, Cabbage, Cantaloupe, Cauliflower, Celery, Collards, Cucumbers, Endive (Escarole), Kale, Lettuce, Lima Beans, Muskmelons, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Swiss Chard, Tomatoes, Watermelons, Winter Squash) Broadcast 2-4 qts. per acre just prior to planting. Work into the soil to a depth of 4 inches. **(Cutworms)** 3-6 inches for subterranean cutworms.

GARDEN SYMPHYLANS (CENTIPEDES) (Cabbage, Carrots, Corn, Lettuce, Peas, Pole Beans, Radishes, Red Beets, Snap Beans, Tomatoes, Turnips) Broadcast 10 qts. per acre just prior to planting. Work into soil 4 inches immediately. This pre-plant treatment will also control cutworms, surface and subterranean, mole crickets, root maggots and wireworms.

MOLE CRICKETS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Endive (Escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes and Turnips) Broadcast 1 qt. per acre when insects are present. Make application to plant beds within 10 days prior to sowing of seeds or transplanting. **(Mole Crickets)** 1-2 qts. per acre.

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

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 transplant. Transplant Water (Drench) Application: Mix 1 qt. in 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of 1-1 1/2 cups 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 20-100 gals. per acre (1-1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS (Broccoli, Brussels Sprouts, Cabbage, Cantaloupe, Carrots, Cauliflower, Celery, Collards, Cucumbers, Endive (Escarole), Kale, Lettuce, Lima Beans, Muskmelons, Onions, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, Winter Squash) Broadcast 3-4 qts. per acre prior to planting and work into soil 4-8 inches immediately. **(Potatoes)** Broadcast 3-6 qts. per acre prior to planting and work into soil 4-8 inches immediately.

SOUTHERN POTATO WIREWORMS (Southeastern U.S.) (Potatoes) 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 6 inches of soil, depending on location of wireworms.

FIELD & FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon (R) AG4E 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 (Grasshoppers) Apply 1-2 pts. per acre as a foliage spray in a minimum of 100 gals. of water per acre. **(Grasshoppers)** Apply 1-2 pts. per acre as a foliage spray in a minimum of 100 gals. of water per acre. **(Grasshoppers)** Apply 1-2 pts. per acre as a foliage spray in a minimum of 100 gals. of water per acre.

CLOVER (Striped Ground Crickets) Broadcast 1/2 qt. per acre following mowing. Do not apply within 14 days of harvest.

CORN (Corn Rootworm Larvae) Band Application: Apply 1-2 qts. per acre in a minimum of 5 gals. of water for aerial applications and 5 gals. of water per acre for ground applications. **(Corn Rootworm Adults)** Apply 1-2 pts. per acre. **(Corn Leaf Aphids)** Apply 1-2 pts. per acre. **(Grasshoppers)** Apply 1-2 pts. per acre. **(Sawflies)** Apply 1-2 pts. per acre. **(Cutworms)** Apply 1-2 pts. per acre. **(Mites)** Apply 1-2 pts. per acre. **(Grasshoppers)** Apply 1-2 pts. per acre.

COTTON (Spider Mites, Aphids, Leafhoppers, Lygus Bugs, Cotton Leafworms, Cotton Leafperforators) Apply 1-2 pts. in 5-25 gals. of water per acre. Repeat as infestations warrant. Do not apply within 14 days of harvest. Do not graze treated cotton plants. Do not feed waste to livestock.

GUAR (Texas & Oklahoma Only) (Midges) Apply 1 pt. per acre in a minimum of 10 gals. of water for ground applications 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 pt. per acre. Do not apply within 14 days of harvest.

SORGHUM (Mites) Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. **(Sorghum Mites)** Apply 1-1 1/2 pt. per acre when 9-10% of the plants are infested 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 rate indicated below when infestation first appears and repeat as necessary. Texas & Oklahoma: Apply 1-1 1/2 pt. per acre. **(Mites)** Apply 1 pt. per acre. Crop may be fed to livestock within 14 days following treatment.

SUGAR BEETS (Beet Leafhoppers, Dipterous Leafminers, Aphids) Apply 1-1 1/2 pt. per acre. Do not apply within 14 days of harvest. Do not graze or feed to livestock.

SUGARCANE (Aphids) Apply 1 pt. per acre. Apply 1 day before first application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO (Aphids, Flea Beetles) Apply 1-1 1/2 pts. per acre. Do not apply within 30 days of harvest. **(Grasshoppers)** Apply 1-2 pts. per acre. Do not apply within 14 days of harvest.

FIELD & FORAGE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon (R) AG4E should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for ground applications.

ALFALFA & CLOVER (Cutworms - Surface & Subterranean) Broadcast 2-4 qts. per acre just prior to planting. Work into the soil to a depth of 2-3 inches for surface cutworms, 4-6 inches for subterranean cutworms.

CORN (Corn Rootworm Larvae) Band Application: Apply 1-2 qts. per acre in a minimum of 5 gals. of water. Make application in the seed furrow or apply 2-4 qts. per 1,000 linear feet of row in a 4-7 inch band directly behind the planter shoe. For the band treatment refer to the Row Spacing Chart for amounts recommended per acre. Post Emergence Basal Treatment: Apply 1-2 qts. per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the Row Spacing Chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm damage but not later than June 24 in the field or Corn Belt or July 15 in the Corn Belt.

ROW SPACING CHART - Suggested Rates for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Amount of Diazinon AG4E Per Acre	
		Planting time Application	Post-emergence Basal Treatment
48"	10,990	28 - 56 oz	12 - 28 oz
42"	12,455	31 - 62 oz	15 - 31 oz
40"	13,068	32 - 64 oz (1-2 qts)	16 - 32 oz (1-1 qt)
36"	14,939	35 - 70 oz	17 - 35 oz
30"	17,424	36 - 72 oz	18 - 36 oz
30"	17,424	44 - 88 oz	22 - 44 oz
24"	21,180	55 - 110 oz	27 - 55 oz
20"	26,136	64 - 128 oz (2-4 qts)	32 - 64 oz (1-2 qts)
15"	34,548	88 - 176 oz	44 - 88 oz

NOTE: For row spacings not listed, calculate the approximate dosage rates based on the 40-inch row figure.

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PEAS (Aphids, Serpentine Leaf Miners): Apply 1 pt per acre 10-14 days before harvest.

PEAS (Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf Miners, Banded Cucumber Beetles, Southern Armyworms): Apply 1 pt per acre. Do not apply 14 days of harvest.

PEAS, PARSNIPS & TURNIPS (Aphids, Flea Beetles, Dipterous Leaf Miners): Apply 1 pt per acre. Do not apply with 14 days of harvest.

PEAS & BEETS (Aphids, Dipterous Leaf Miners): Apply 1 pt per acre 14 days before harvest.

PEAS - SUMMER & WINTER - MELONS & SQUASH

CORN (Corn Earworms): Apply 1-1 1/2 qts per acre when silks first appear. Two to three applications at 2-3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn may be fed to dairy and beef cattle and sheep. Refer also to CORN FIELD & FORAGE FOLIAR INSECTS and FIELD & FORAGE SOIL INSECTS.

CUCUMBERS (Aphids, Dipterous Leaf Miners): Apply 1 pt per acre. For control of weekly applications are usually required. (Banded Cucumber Beetle, Fall Armyworm, southern Armyworms): Apply 1 pt per acre. (Fall Armyworm, Drosophila spp.): Apply 1 pt per acre. Weekly applications are required. Do not apply within 14 days of harvest.

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

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon (R) AG4E should always be applied to vegetable crops as a spray in a minimum of 5 gals of water per acre for ground applications.

BRUSSELS SPROUTS (SURFACE & SUBTERRANEAN) (Broccoli, Brussels Sprouts, Cauliflower, Cabbage, Celery, Collards, Cucumbers, Endive, Kale, Lettuce, Lima Beans, Mung Beans, Parsley, Peas, Peppers, Snap Beans, Spinach, Summer Squash, Sweet Corn, Swiss Chard, Tomatoes, Watermelons, Winter Squash): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches for surface cutworms and 3-6 inches for subterranean cutworms.

CABBAGE (SYMPHYLAN) (CENTIPEDES) (Cabbage, Carrots, Corn, Lettuce, Spinach, Snap Beans, Snap Beans, Tomatoes, Turnips): Apply 10 qts per acre just prior to planting. Work into soil 4-8 inches. This pre-plant treatment will also control cutworms (surface and subterranean), mole crickets, root maggots and wireworms.

CUCUMBERS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Endive (Escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Spinach, Turnips): Broadcast 1 qt per acre when insects are present. Application to plant beds or furrows 1-2 days prior to sowing of seed or transplanting and immediately work into soil 1 to 2 inches.

MAGGOTS (Onions): Furrow Application - Apply 1 qt per acre in water to drench the seed furrow at planting time. Broadcast Application - Broadcast 2-4 qts per acre just prior to planting. Work into soil 3-6 inches immediately.

MAGGOTS (Broccoli, Brussels Sprouts, Cabbage & Cauliflower): Broadcast Application - Broadcast 2-3 qts per acre and immediately work into soil 4 inches before seeding, either in the seedbed or in the field, or transplant. Transplant Water (Drench) Application - Mix 1 qt in 50 gal of water. When 200-300 gals of water are used per acre, mix 1 qt of the spray at the rate of 1/2 cupful per plant, either by hand or by tractor. Transplant water treatments may result in stand reduction due to the high salt content of the spray. Transplant water treatments may result in stand reduction due to the high salt content of the spray. Transplant water treatments may result in stand reduction due to the high salt content of the spray.

WORMS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Carrots, Celery, Collards, Cucumbers, Endive (Escarole), Kale, Lettuce, Lima Beans, Mung Beans, Onions, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, Winter Squash): Broadcast 3-4 qts per acre prior to planting and work into soil 4-8 inches immediately. (Potatoes): Broadcast 3-6 qts per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

HERN POTATO WIREWORMS (Southern U.S.): (Potatoes): For use in the Southern U.S. on potatoes grown on mineral soils in the West, 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 3-4 inches of soil depending on local conditions.

FIELD & FORAGE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon (R) AG4E should 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 Aphid, Yellow Clover Aphid, Pea

ALFALFA (Aphids, Leafhoppers, Plant Bug Nymphs, Mites): Apply 1 pt per acre. (Grasshoppers): Apply 1 pt per acre. (Cutworms - Surface & Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches immediately. (Wireworms): Apply 3-4 qts per acre just prior to planting and work into soil 4-8 inches immediately.

CLOVER (Striped Ground Crickets): Broadcast 1-2 qts per acre. Work into soil 4-8 inches immediately.

CORN (Spider Mites, Aphids, Leafhoppers, Lygus Bugs, Cotton Leafworms, Cotton Leaf-Perforators): Apply 1-2 pints in 5-25 gals of water per acre. Repeat as infestations warrant. Do not apply within 14 days of harvest. Do not graze treated cotton plants. Do not feed gin waste to livestock.

GUAR (Texas & Oklahoma Only) (Midge): Apply 1-2 pints per acre in a minimum of 10 gals of water for ground applications 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 guar to livestock within 12 weeks of harvest.

COTTON (Spider Mites, Aphids, Leafhoppers, Lygus Bugs, Cotton Leafworms, Cotton Leaf-Perforators): Apply 1-2 pints in 5-25 gals of water per acre. Repeat as infestations warrant. Do not apply within 14 days of harvest. Do not graze treated cotton plants. Do not feed gin waste to livestock.

GUAR (Texas & Oklahoma Only) (Midge): Apply 1-2 pints per acre in a minimum of 10 gals of water for ground applications 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 guar to livestock within 12 weeks of harvest.

HOPS (Aphids, Mites): Apply 1 pt per acre. Do not apply within 14 days of harvest.

SORGHUM (use a minimum of 1 gal of water for aerial applications and 5 gals of water for ground applications) (Sorghum Midge): Apply 1 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 as necessary. (Greenbug): Apply 1 pt per acre. Do not apply within 30 days of harvest. (Fall Armyworm): Apply 1 pt per acre. Do not apply within 14 days of harvest.

SUGAR BEETS (Beet Leafhoppers, Dipterous Leafminers, Aphids): Apply 1 pt per acre. (Grasshoppers): Apply 1 pt per acre. Do not apply within 14 days of harvest.

SUGARCANE (Aphids): Apply 1 pt per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock daily as manure.

SUGARCANE (Aphids): Apply 1 pt per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock daily as manure.

FIELD & FORAGE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon (R) AG4E 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 (Cutworms - Surface & Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches immediately.

CORN (Corn Rootworm Larvae): Band Apply Cotton at Planting Time - Apply 1-2 qts per acre in a minimum of 5 gals of water. Make application in the seed furrow or apply 2-5 oz per 1,000 linear feet of corn row in a 4-7 inch band directly behind the planter shoe. For the band treatment, refer to the Row Spacing Chart for amounts recommended per acre. Post Emergence Basal Treatment - Apply 1-2 oz per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the Row Spacing Chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt.

ROW SPACING CHART - Suggested Rates for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Amount of Diazinon AG4E Per Acre	
		Planting Time Application	Post-emergence Basal Treatment
48	10,890	28 - 56 oz	14 - 28 oz
42	12,455	31 - 62 oz	15 - 31 oz
40	13,068	32 - 64 oz (1-2 qts)	16 - 32 oz (1-1 qt)
38	13,939	35 - 70 oz	17 - 35 oz
36	14,750	36 - 72 oz	18 - 36 oz
30	17,424	44 - 88 oz	22 - 44 oz
24	21,780	55 - 110 oz	27 - 55 oz
20	26,136	64 - 128 oz (2-4 qts)	32 - 64 oz (1-2 qts)
15	34,848	83 - 176 oz	44 - 88 oz

NOTE: For row spacings not listed, calculate the approximate dosage rates based on the 48-inch row figure.

(Seed Corn Maggots): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches immediately. (Cutworms - Surface & Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches immediately. (Wireworms): Apply 3-4 qts per acre just prior to planting and work into soil 4-8 inches immediately.

COWPEAS, LESPEDEZA, SORGHUM & SOYBEANS (Cutworms - Surface & Subterranean): Broadcast 2-4 qts per acre just prior to planting. Work into soil 4-8 inches immediately. (Wireworms): Apply 3-4 qts per acre just prior to planting and work into soil 4-8 inches immediately.

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 more additional applications at 3 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 work into soil 2-4 inches immediately. (Green June Beetle Larvae): Mix 1 qt in 50 gals of water and apply as a drench (100 gals per 1/2 acre) 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 for transplanting and immediately work into soil 1-2 inches. (Seedcorn Maggots): Broadcast 3 pints per acre 3-4 weeks before transplanting. Work into soil 6-9 inches immediately.

RANGE, PASTURE & GRASSLAND INSECTS

Unless otherwise stated, Diazinon (R) AG4E should always be applied as a spray in a minimum of 1 gal of water per acre for aerial applications and a minimum of 10 gals of water per acre for ground applications.

BERMUDAGRASS & FORAGE GRASSES: (other than Range & 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 1-1 1/2 pt per acre in water or oil (minimum of 1 gal of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Dairy and beef cattle and sheep (1) may be grazed immediately following application. (2) may be fed green forage immediately following cutting and (3) may be fed hay provided grass is not cut for hay for 21 days. If the spray is a water solution or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat applications 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	Amount Diazinon® AG4E to Use	
	per 3 gals water	per 100 gals water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leaf Miners, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers, Cottony-cushion, Lecanium, Pine Needle San Jose, Soil Scale, Thrips, Two spotted Mites, Webworms, Whiteflies	1/2 fl oz	1 pt
Apple-and-Thorn Skeletonizers, Cottonaster Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Oblique-banded Leaf Rollers, Pear Slugs, Tent Caterpillars	1-1 1/2 fl oz	3 pts

1/2 fl oz = 2 tablespoons 1 pt = 16 fl oz

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

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