

Diazinon AG 500

This product contains 4 lbs. Diazinon® per gallon.

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

Diazinon® trademark of CIBA-GEIGY Corporation.

Warning:
Keep out of reach of children.

See additional warnings on side panel.

ACTIVE INGREDIENTS: 86.3%
O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 48.5%
Xylene 37.8%
INERT INGREDIENTS: 13.7%
TOTAL 100.0%

W A R N I N G
Keep out of reach of children.
May be fatal if swallowed.
May be absorbed through skin.
Do not use on humans or permit children to go on the sprayed grass until spray has completely dried.
Do not use on domestic animals. Do not contaminate feed or use on household pets or livestock. Do not permit pets to go on to sprayed grass until spray has completely dried.
POISONOUS TO FISH AND WILDLIFE
This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.
Do not reuse empty container or drums. Return to drum reconditioner or destroy by perforating or crushing and burying in a safe place away from water supplies.
DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.

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.

Parlatoria Scales, San Jose Scales: Mix 1-1½ pts. Diazinon AG-500 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 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 on the ground and buds are closed. Make a second application when the buds are well developed, but still closed.

Do not apply within 7 days of harvest.

Raspberry Crown Borers (Raspberry Root Borers): Apply 2 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: Eye-Spotted Bud Moths, Fruit-Tree Leaf Rollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary, beginning with petal fall.

Leafhoppers: Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

Cherry Fruit Flies: Mix ½-1 pt. per 100 gals. of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge and repeat at 10-day intervals.

Black Cherry Aphids: Mix 1 pt. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.

Cranberry Fruitworms: Apply 3 qts. in 400 gals. of water per acre.

Do not apply within 7 days of harvest.

FIGS: Vinegar Flies (Drosophila spp.), Dried Fruit Beetles: Apply 1 pt. per 100 gals. of water. Do not apply within 5 days of harvest.

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

GRAPES: Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf 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 ¾-1 pt. of Diazinon AG-500 plus 1½ gals. of light medium summer horticultural oil per 100 gals. of water. Apply as a cover spray in June or July. Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.

PEACHES AND NECTARINES: Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.

Olive Scale Crawlers: Mix ½ pt. of Diazinon AG-500 plus 1½ 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 1½-2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations 2 application may be necessary.

Do not apply to peaches within 20 days, or to nectarines within 10 days of harvest.

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

PINEAPPLES: Scales: Apply 5 qts of Diazinon AG-500 plus 2 gals. of light or medium horticultural oil in 500 gals. of water per acre.

Do not apply after the husks open.

VEGETABLE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon AG-500 be applied to vegetable crops 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.

BEANS: Pole Beans, Snap Beans, Lima Beans: Black Bean Aphids, Mexican Bean Beetles, Leaf Miners: Apply 1-1½ pts. per acre.

Cucumber Beetles: Apply ¾ pt. in 100 gallons of water per acre.

Do not apply within 7 days of bean harvest.

Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

LIMA BEANS: Dipterous Leaf Miners, Leafhoppers, Mites: Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

BROCCOLI, CABBAGE AND CAULIFLOWER: Aphids, Diamondback Moths, Imported Cabbageworms: Apply ½-1 pt. per acre. Applications 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 pt. per acre. Do not apply within 10 days of harvest.

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

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

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

MELONS AND SQUASH: Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their hybrids: Summer and Winter Squashes: Aphids, Leafhoppers, Mites: Apply 1-1½ pt. per acre.

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

SQUASH: (Summer and Winter) See Melons and Squash Section.

SWEET CORN: Corn Earworms: Apply 1-1½ qts. per acre when silks first appear. Two or three repeat applications at 2-3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Refer also to Corn under Field and Forage Foliar Insects and Field and Forage Soil Insects.

TOMATOES: Aphids, Dipterous Leaf Miners: Apply ½ pt. per acre. To control leaf miners weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply ¾-1 pt. per acre.

Vinegar Flies (Drosophila spp.): Apply ½-1½ pts. per acre. Weekly applications are usually required.

Do not apply within 1 day of harvest.

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

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon AG-500 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 | Muskmelons |
| Brussels Sprouts | Parsley |
| Cabbage | Peas |
| Cantaloupes | Peppers |
| Cauliflower | Potatoes |
| Celery | Snap Beans |
| Collards | Spinach |
| Cucumbers | Summer Squash |
| Endive (escarole) | Sweet Corn |
| Kale | Swiss Chard |
| Lettuce | Tomatoes |
| Lima Beans | Watermelons |
| | Winter Squash |

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

Garden Symphylans (Centipedes):

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

Broadcast 10 qts. per acre just prior to planting. Work into soil 4-8 inches.

Radishes: Mix 1 qt. in 50 gals. Apply 80-100 gals. per acre (1-1½ 1,000 linear feet of row) in the soil at planting time.

Wireworms:

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

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

POTATOES: Wireworms: Broadcast per acre prior to planting. Immediate or harrow into soil 4-8 inches.

Southern Potatoes Wireworms (Sou. U.S.): For use to control southern wireworms in potatoes grown on soils in the southeast, apply 2-4 qts. as a soil treatment prior to planting immediately mixed thoroughly by other suitable means into the top 3 of soil, depending on location of soil.

FIELD AND FORAGE FOLIAR INSECTS

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

ALFALFA AND CLOVER: Spotted Aphids, Yellow Clover Aphids, Pear Leafhoppers, Plant Bug Nymphs, Mites: Apply ½-1 pt. per acre.

Grasshoppers: Apply 1 pt. per acre.

Following the above applications, beef cattle and sheep (1) may be immediately following applications, be fed green alfalfa or clover immediately following cutting, and (3) may be provided alfalfa or clover is not cut for 7 days following treatment.

Alfalfa Weevil Larvae: For control spring, apply 2-3 pts. per acre when damage to growing tips becomes Repeat application, if necessary. If already extensive, cut the hay or application to the stubble. Do not graze or feed animals or sheep for 2 days cut for hay for 10 days following treatment.

Do not spray livestock directly with or ground equipment.

Do not treat during bloom to avoid pollinating insects.

CLOVER: Striped Ground Crickets: 1-2 pts. per acre following seeding.

Avoid contamination of food. 248

Do not use on humans or permit children to go on the sprayed grass until spray has completely dried.

Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock. Do not permit pets to go on to sprayed grass until spray has completely dried.

POISONOUS TO FISH AND WILDLIFE

This product is toxic to fish, shrimp, crabs, birds and other 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Do not reuse empty container or drums. Return to drum reconditioner or destroy by perforating or crushing and burying in a safe place away from water supplies.

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.

WARRANTY AND LIMITATION OF DAMAGES. Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Helena Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

Diazinon AG-500 is an emulsifiable solution which when diluted with water according to the directions below is intended for the control of insect pests of agricultural crops. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use given below, best control is obtained when application is made at first sign of insects. Application should be repeated as necessary to maintain control.

NOTE: The California Department of Agriculture has set a 5-day re-entry for Diazinon® on citrus, grapes, peaches and nectarines. Five days should lapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organic phosphate pesticides are applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

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 on the ground and buds are closed. Make a second application when the buds are well developed, but still closed.

Do not apply within 7 days of harvest.

Raspberry Crown Borers (Raspberry Root Borers): Apply 2 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: Eye-Spotted Bud Moths, Fruit-Tree Leaf Rollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary, beginning with petal fall.

Leafhoppers: Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

Cherry Fruit Flies: Mix ½-1 pt. per 100 gals. of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge and repeat at 10-day intervals.

Black Cherry Aphids: Mix 1 pt. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.

San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear.

Do not apply within 10 days of harvest.

Cherry Rust Mites: Mix ½-1 pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

CITRUS FRUITS
Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangerines, Citrus Citron, Kumquats, and hybrids of these.

Citrus Aphids, Fruit-Tree Leaf Rollers, Cottony-Cushion Scale Crawlers, and Soft Scale Crawlers: Apply ½-1 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.

Fruit-Tree Leaf Rollers: Use ½-1 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 trunks, limbs, and twigs is essential.

Do not apply during bloom. Do not apply citrus within 21 days of harvest. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources.

CRANBERRIES: Black Headed Fireworms (Sparganothis sulfureana): Apply 2 qts. in 400 gals. of water per acre.

inter appear.

Olive Scale Crawlers: Mix ½ pt. of Diazinon AG-500 plus 1½ 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 1½-2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations 2 application may be necessary.

Do not apply to peaches within 20 days, or to nectarines within 10 days of harvest.

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

PINEAPPLES: Scales: Apply 5 qts. of Diazinon AG-500 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 AND PRUNES: Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water.

Leaf Curl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: Apply ½-1 pt. per 100 gals. of water. Do not apply within 10 days of harvest.

STRAWBERRIES: Aphids, Two-Spotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre.

Cyclamen Mites: Apply 1 qt. per 100 gals. of water per acre, directing spray to plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Make additional applications, if necessary, after harvest.

Mole Crickets: Broadcast 1 qt. per acre when insects are present. Apply 1 to 2 days before transplanting and mix into the top 1-2 inches of soil immediately.

Strawberry Leaf Rollers: Mix ¼-1 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.

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 pt. per acre. Do not apply within 10 days of harvest.

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

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

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

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

MELONS AND SQUASH: Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their Hybrids: Summer and Winter Squashes: Aphids, Leafhoppers, Mites: Apply 1-1½ pt. per acre.

Serpentine Leaf Miners, Thrips: Apply ½-1 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 Sciardids): Mix ½-1 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 ½ pt. in 6 gals. of water and apply with a brush.

Do not treat compost.

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

PEAS: Aphids, Leaf Miners: Apply ¼-1 pt. per acre. Peas may be picked immediately. Pea vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

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

POTATOES: Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf Miners: Apply ½-¾ pt. per acre.

Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Apply ¼-1 pt. per acre.

Do not apply within 35 days of harvest.

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

5 days of harvest.

VEGETABLE SOIL INSECTS

Unless otherwise stated, the application of Diazinon AG-500 should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

Surface and Subterranean

| | |
|------------------|---------------|
| Brussels | Muskmelon |
| Brussels Sprouts | Marigold |
| Cabbage | Peas |
| Cauliflower | Peppers |
| Collards | Pumpkins |
| Corn | Sweet Beans |
| Corn Cobs | Squash |
| Corn Leaves | Summer Squash |
| Corn Stalks | Sweet Corn |
| Endive | Swiss Chard |
| Kale | Tomatoes |
| Lettuces | Watermelons |
| Lima Beans | Winter Squash |

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

Garden Symphylans (Centipedes):

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

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

Mole Crickets:

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

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

ONION MAGGOTS:

Onions: Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time.

Broadcast Application: Broadcast 2-4 qts. per acre just prior to planting. Work into soil 3-4 inches immediately.

ROOT MAGGOTS:

Broccoli, Brussels Sprouts, Cabbage, and Cauliflower.

Broadcast Application: Broadcast 2-3 qts. per acre and immediately work into the soil 3-4 inches, before seeding, either in the seedbed or in the field, or before transplanting.

Transplant Water (Drench) Application: Mix ¼-½ pt. in 50 gals. of transplant water, when 200-300 gals. of water are used per acre. May be applied at the rate of ¼-1 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.

Unless other directions follow, apply Diazinon AG-500 should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for applications and a minimum of 10 gals. of water per acre for ground applications.

ALFALFA AND CLOVER: Aphids, Thrips, Leafhoppers, Flea Beetles, and other insects.

Just before or after cutting, apply 1-2 qts. per acre immediately following application. Do not graze alfalfa or clover for 10 days following treatment.

Alfalfa: Apply 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.

Do not spray livestock directly with or ground equipment.

Do not treat during bloom to avoid pollinating insects.

CLOVER: Striped Ground Crickets: B 1-2 pts. per acre following seeding is but prior to clover emergence.

CORN: Use a minimum of 1 gal. of v aerial applications and 5 gals. of v ground applications.

Corn Rootworm Adults: Apply ½-1 acre.

Corn Leaf Aphids: Apply 1-2 pts. p Complete coverage of the upper po the plants is essential. Repeat applica necessary.

Mites: Apply 1 pt. per acre when inf first appear. Repeat applicatio necessary.

Grasshoppers: Apply 1 pt. per acre.

Sap Beetles: Apply 2-2½ pts. per a 1-2 gals. of soluble mineral oil per ac spray mixture. Consult State Ag Experiment Stations or State E Service Specialists for proper ti sprays.

Corn may be picked immediately f last application. Corn forage may b dairy and beef cattle and sheep.

COTTON: Spider Mites, Aphids, Leaf Lygus, Cotton Leafworms, Cottq Perforators: Apply 1-2 pts. in 5-25 water per acre. Repeat as int warrants.

Do not apply within 14 days of har not graze treated cotton plants, or waste to livestock.

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

SORGHUM: Use a minimum of 1 water for aerial applications and 5 water for ground applications.

Manufactured by: HELENA CHEMICAL COMPANY Memphis, Tenn.

Diazinon AG 500 Insecticide

After the hucks open

FOLIAR INSECTS

Otherwise stated, foliar applications of Diazinon AG-500 be applied to vegetable crops in a minimum of 1 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

Beans, Snap Beans, Lima Beans: Aphids, Mexican Bean Beetles, etc. Apply 1-1½ pts. per acre.

Beetles: Apply ¼ pt. in 100 gallons of water.

Apply within 7 days of bean harvest.

or bean hay may be fed to dairy cattle and sheep. Wait 4 days before treatment if forage is to be cut for hay.

MSs, Dipterous Leaf Miners, etc., Mites: Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean hay may be fed to dairy and sheep. Wait 4 days following treatment if forage is to be cut for hay.

CABBAGE AND CAULIFLOWER: Diamondback Moths, Imported Cabbageworms: Apply ½-1 pt. per acre. At 7-10 day intervals will usually be effective. Do not apply to broccoli or cauliflower within 5 days, or to cabbage within 10 days of harvest.

BROCCOLI: Aphids, Diamondback Cabbageworms: Apply 1 pt. per acre. Generally, applications at 7-10 day intervals will be required.

Apply to brussels sprouts within 7 days of harvest.

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

Flea Beetles: Apply 1 pt. in 50 gals. of water per acre. Do not apply within 7 days of harvest. Plants should be sprayed (tops removed) before being used. Tops should not be used for seed.

KALE, SWISS CHARD, AND TURNIP: Aphids, Imported Cabbageworms, etc. Moths, Harlequin Cabbageworms: Apply ½-1 pt. per acre. Apply to collards, kale, or turnip tops within 12 days of harvest.

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

ENDIVE: Aphids, Dipterous Leaf Miners: Apply ½-1 pt. per acre. Do not apply within 7 days of harvest.

AND SQUASH: Cantaloupes, Casahuate, Honeydew Melons, Muskmelons, etc. Moths, and hybrids of muskmelons and their hybrids and Winter Squash: Aphids, etc. Mites: Apply 1-1½ pts. per acre.

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

SQUASH: (Summer and Winter) See Melons and Squash Section.

SWEET CORN: Corn Earworms: Apply 1-1½ pts. per acre when silks first appear. Two or three repeat applications at 2-3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Refer also to Corn under Field and Forage Foliar Insects and Field and Forage Soil Insects.

TOMATOES: Aphids, Dipterous Leaf Miners: Apply ½ pt. per acre. To control leaf miners weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply ½-1 pt. per acre.

Vinegar Flies (Drosophila spp.): Apply ½-1 pt. per acre. Weekly applications are usually required.

Do not apply within 1 day of harvest.

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

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon AG-500 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 | Muskmelons |
| Brussels Sprouts | Parsley |
| Cabbage | Peas |
| Cantaloupes | Peppers |
| Cauliflower | Potatoes |
| Celery | Snap Beans |
| Collards | Spinach |
| Cucumbers | Summer Squash |
| Endive (escarole) | Sweet Corn |
| Kale | Swiss Chard |
| Lettuce | Tomatoes |
| Lima Beans | Watermelons |
| | Winter Squash |

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

Garden Symphylans (Centipedes):

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

Radishes: Mix 1 qt. in 50 gals. of water. Apply 80-100 gals. per acre (1-1½ gals. per 1,000 linear feet of row) in the seed furrow at planting time.

Wireworms:

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

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

POTATOES: Wireworms: Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

Southern Potatoes 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 application of Diazinon AG-500 should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

ALFALFA AND CLOVER: Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply ½-1 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 applications, (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 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: Spotted Green Caterpillars: Broadcast

Sorghum Midges: Apply ½-1 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 ½-1 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: Leafhoppers, Dipterous Leaf Miners, Aphids: Apply ½-1 pt. per acre.

Grasshoppers: Apply 1 pt. per acre.

NOTE: Tops may be fed to beef and dairy animals.

SUGARCANE: Aphids: Apply ½-1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

TOBACCO: Aphids, Flea Beetles: Apply ½-¾ 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 AG-500 should always be applied to field and forage crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

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

CORN: Corn Rootworm Larvae

Band Application at Planting Time: Apply 1-2 qts. per acre. Make application in the seed furrow or apply 2½-5 ozs. per 1,000 linear feet of corn row in a 4-7 inch band directly behind the planter shoe. For band treatment refer to the row spacing chart for amounts recommended per acre.

SUGGESTED RATES ACCORDING TO ROW SPACING FOR CORN ROOTWORM LARVAE CONTROL

| Row spacing | Linear feet of Corn row/acre | Rate per acre Planting time application | Post emergence basal treatment |
|-------------|------------------------------|---|--------------------------------|
| 48" | 10,890 | 28-56 oz. | 14-28 oz. |
| 42" | 12,455 | 31-62 oz. | 15.5-31 oz. |

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

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

PEANUTS: Cutworms: Apply 2 qts. per acre in a 12-inch band over the row. Thorough coverage of the foliage is essential. Begin application when small larvae appear. Two or three additional applications at three week intervals may be necessary. Do not apply within 21 days of peanut harvest.

Livestock (1) may be fed peanut hulls, (2) may be fed peanut forage 7 days following treatment and (3) may be fed peanut hay 21 days following treatment.

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

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

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

Tops may be fed to beef and dairy animals.

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

TOBACCO: Cutworms: Broadcast 2-3 qts. per acre before transplanting and work into the soil 2-4 inches immediately.

Green June Beetle Larvae: Mix ¼ 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 work into soil 1-2 inches immediately.

Seed-Corn Maggots: Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Work into soil 2 inches immediately.

Wireworms: Broadcast 2-3 qts. per acre, 3-4 weeks before transplanting. Work into soil 6-9 inches immediately.

RANGE, PASTURE, AND GRASSLAND INSECTS

| Insects | Rate per 3 gals. water | Rate per 100 gals. water |
|---|------------------------|--------------------------|
| Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leaf Miners, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers (Cottony-Cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Two-Spotted Mites, Webworms, Whiteflies | 1½ fl. oz.* | 1 pt.* |
| Apple-and-Thorn Skeletonizers, Cotton-easter Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Oblique-banded Leaf Rollers, Pear Slugs, Tent Caterpillars | 1½ fl. oz. | 3 pts. |

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

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

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

LAWN INSECT CONTROL

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

Boxelder Bugs: Spray bugs outside the home with 1½-2½ fl. oz. (2½-5 tablespoons) in 1 gal. water. At the same time thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

BILLBUGS AND WHITE GRUBS, SUCH AS JAPANESE BEETLE LARVA, EUROPEAN CHAFER AND SOUTHERN CHAFER: 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 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 State): Apply

will be required.

ly to brussels sprouts within 7 days

Aphids: Apply 1 pt. per acre. Do within 10 days of harvest.

phids, Flea Beetles: Apply 1 pt. in of water per acre. Do not apply days of harvest. Plants should be nmed (tops removed) before being used. Tops should not be used for od.

KALE, SWISS CHARD, AND TURNIP hids, Imported: Cabbageworms, ICK Moths, Harlequin Cabbage Earworms: Apply ½-1 pt. per acre. ly to collards, kale, or turnip tops days. Swiss Chard within 12 days,

Is Aphids, Serpentine Leaf Miners, ply 1 pt. per acre. Do not apply ays of harvest.

ND ENDIVE: Aphids, Dipterous Leaf ply ½-1 pt. per acre. Do not apply days of harvest.

ND SQUASH: Cantaloupes, Casa-haws, Honeydew Melons, Musk-erston Melons, and hybrids of mermelons and their Hybrids and Winter Squashes: Aphids, s, Mites: Apply 1-1½pt. per acre.

Leaf Miners, Thrips: Apply ½-1 pt.

ply to melons and winter squash sys or to summer squash within 7 rvest.

MM HOUSES: Mushroom Flies and Sclarids): Mix ½-1 gal. in 50 water (0.5% to 1.0% actual b) and spray on outside and inside ventilators of mushroom houses, post in beds has been pasteurized g. do not spray compost in beds or vining.

wooden sides of beds, posts, doors frames after pasteurizing, mix ½ pt of water and apply with a brush.

eat compost.

Onion Thrips: Apply 1 pt. per acre. ply within 10 days of harvest.

ids, Leaf Miners: Apply ½-1 pt. per s may be picked immediately. Pea pea vine hay may be fed to dairy cattle and sheep. Wait 4 days treatment if forage is to be cut for

Aphids, Serpentine Leaf Miners: pt. per acre. Do not apply within 5 arvest.

Is Aphids, Flea Beetles, Colorado sties, Dipterous Leaf Miners: Apply per acre.

Cucumber Beetles, Leafhoppers, Armyworms: Apply ¾-1 pt. per

ply within 35 days of harvest.

PARSNIPS, AND TURNIPS: Aphids, ies, Dipterous Leaf Miners: Apply ir acre. Do not apply within 10 days i.

VEGETABLE SOIL INSECTS

Unless otherwise stated, soil applications of Diazinon AG-500 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 | Muskmelons |
| Brussels Sprouts | Parsley |
| Cabbage | Peas |
| Cantaloupes | Peppers |
| Cauliflower | Potatoes |
| Celery | Snap Beans |
| Collards | Spinach |
| Cucumbers | Summer Squash |
| Endive (escarole) | Sweet Corn |
| Kale | Swiss Chard |
| Lettuce | Tomatoes |
| Lima Beans | Watermelons |
| | Winter Squash |

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

Garden Symphylans (Centipedes):

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

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

Mole Crickets:

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

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

ONION MAGGOTS:

Onions: Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time.

Broadcast Application: Broadcast 2-4 qts. per acre just prior to planting. Work into soil 3-4 inches immediately.

ROOT MAGGOTS:

Broccoli, Brussels Sprouts, Cabbage, and Cauliflower.

Broadcast Application: Broadcast 2-3 qts. per acre and immediately work into the soil 3-4 inches, before seeding, either in the seedbed or in the field, or before transplanting.

Transplant Water (Drench) Application: Mix ¼-½ pt. in 50 gals. of transplant water, when 200-300 gals. of water are used per acre. May be applied at the rate of ½-1 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.

Diazinon AG-500 should always be applied to field and forage crops as a spray in minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

ALFALFA AND CLOVER: Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply ¾-1 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 applications, (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 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.

CORN: Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications.

Corn Rootworm Adults: Apply ½-1 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.

Grasshoppers: Apply 1 pt. per acre.

Sap Beetles: Apply 2-2½ 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, 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.

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.

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

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

CORN: Corn Rootworm Larvae

Band Application at Planting Time: Apply 1-2 qts. per acre. Make application in the seed furrow or apply 2½-5 ozs. per 1,000 linear feet of corn row in a 4-7 inch band directly behind the planter shoe. For band treatment refer to the row spacing chart for amounts recommended per acre.

SUGGESTED RATES ACCORDING TO ROW SPACING FOR CORN ROOTWORM LARVAE CONTROL

| Row spacing | Linear feet of Corn row/ acre | Rate per acre Planting time application | Post emergence basal treatment |
|-------------|-------------------------------|---|--------------------------------|
| 48" | 10,890 | 28-56 oz. | 14-28 oz. |
| 42" | 12,455 | 31-62 oz. | 15.5-31 oz. |
| 40" | 13,068 | 32-64 oz. (1-2 qts.) | 16-32 oz. (½-1 qt.) |
| 38" | 13,939 | 35-70 oz. | 17.5-35 oz. |
| 36" | 14,250 | 36-72 oz. | 18-36 oz. |
| 30" | 17,424 | 44-88 oz. | 22-44 oz. |
| 24" | 21,780 | 55-110 oz. | 27.5-55 oz. |
| 20" | 26,136 | 64-128 oz. (2-4 qts.) | 32-64 oz. (1-2 qts.) |
| 15" | 34,848 | 88-176 oz. | 44-88 oz. |

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

Postemergence Basal Treatment: Apply 1¼-2½ 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.

Seed Corn Maggots: Broadcast 2-4 qts. per acre just prior to planting. Work into soil 2 inches immediately.

Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into soil 1-2 inches immediately. Do not apply later than layby. For subterranean cutworms apply just prior to planting and work into soil 3-6 inches immediately.

Wireworms: Apply 3-4 qts. per acre prior to planting and work into the soil 4-8 inches immediately.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

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

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 the soil 2-4 inches immediately.

Green June Beetle Larvae: Mix ¼ 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 work into soil 1-2 inches immediately.

Seed-Corn Maggots: Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Work into soil 2 inches immediately.

Wireworms: Broadcast 2-3 qts. per acre. 3-4 weeks before transplanting. Work into soil 6-9 inches immediately.

RANGE, PASTURE, AND GRASSLAND INSECTS

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

BERMUDAGRASS AND FORAGE GRASSES (other than Range and Pasture Grasses):

Thrips, Whiteflies, Grasshoppers: Apply 1 pt. per acre.

Dairy and beef cattle, and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting, and (3) forage grasses may be cut for hay 7 days following treatment.

RANGELAND, PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, AND BARRIER STRIPS.

Grasshoppers: Apply ¾-1 pt. per acre in water or oil (minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal state. 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, and apply the recommended rates indicated below.

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

LAWN INSECT CONTROL

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

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 around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

BILLBUGS AND WHITE GRUBS, SUCH AS JAPANESE BEETLE LARVA, EUROPEAN CHAFER AND SOUTHERN CHAFER: 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 billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

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

| Insects | Rate/1,000 sq. ft. | | Remarks |
|--|----------------------------|-----------|--|
| | Diazinon AG-500 | Water | |
| Lawn Chinch Bugs | 2-3 fl. oz. or 3-6 fl. oz. | 25 gals.* | Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns. |
| Ants, Armyworms, Clover Mites, Collembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Fruit Flies, Lawn Billbugs, Sod webworms (Lawn Moths), Sowbugs | 4 fl. oz. | 3 gals. | Spot spray ant hills and wasp ground nest opening. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For fruit 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 | 1½ fl. oz. | 3 gals. | Do not apply to animals. For brown dog ticks spray grass and under shrubbery, particularly near house. |
| Millipedes | 8 fl. oz. | 3 gals. | |
| Rhodes-grass Scales | 5 fl. oz. | 25 gals.* | Apply when crawlers first emerge |

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

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 the completion of egg hatch. Aerial applications 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.

NET CONTENTS:

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Manufactured by: **HELENA CHEMICAL COMPANY** Memphis, Tennessee