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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
WARNING**

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

**ENVIRONMENTAL CAUTION**

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, or ponds. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from treated areas.

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 HAZARD**

Do not use near spill or stove near heat or open flame.

**DIRECTIONS FOR USE**

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

**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) containers 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.

**VEGETABLE FOLIAR INSECTS**

**BEANS**, i.e., POLE BEANS, SNAP BEANS, LIMA BEANS (Black Bean Aphids, Mexican Bean Beetle, Leaf Miner): Apply 1 1/4 pts per acre.

**Cucumber Beetles**: Apply 1/2 pt in 100 gals of water per acre.

**LIMA BEANS** (Epilimna Leaf Miner, Leafhopper, Weevil): Apply 1 pt per acre. Do not apply to listed beans 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 CABBAGEFLOWER** (Aphids, Diamondback Moth, Imported Cabbageworm): Apply 1/2 pt per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days or to cabbage within 7 days of harvest.

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

**CUCUMBERS** (Aphids, Serpentine Leaf Miner, Thrip): Apply 1 pt per acre. Do not apply within 7 days of harvest.

**LETTUCE & ENDIVE** (Aphids, Epilimna Leaf Miner): Apply 1/2 pt per acre. Do not apply within 10 days of harvest.

**MELONS & SQUASH** - CANTALOUPE, CASABA, CHRYSANMUS, HONEYDEW MELONS, MUSK MELONS, PERSIAN MELONS & Hybrid of them; WATERMELONS and their hybrids; ZUCCHINI & BUTTER SQUASH (Aphids, Leafhopper, Weevil): Apply 1 1/4 pts per acre.

**Serpentine Leaf Miner, Thrip**: Apply 1/2 pt per acre. Do not apply to melons and winter squash within 3 days or to summer squash within 7 days of harvest.

**MUSHROOM INSECTS** (Mushroom Fly - Florida & Sciarid): Mix 1/2 gal in 50 gals of water (0.5% 10% actual Diazinon) and spray on outside and inside walls and ventilators of mushroom houses after compost in beds has been pasteurized by heating.

To treat wooden sides of beds, posts, doors and door frames after pasteurizing mix 1/2 pt in 5 gals of water and apply with a brush. Do not treat after spawning.

**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 Thrip): Apply 1 pt per acre. Do not apply within 10 days of harvest.

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

**PEPPERS** (Aphids, Serpentine Leaf Miner): Apply 1/2 pt per acre. Do not apply within 5 days of harvest.

**POTATOES** (Aphids, Flea Beetle, Colorado Potato Beetle, Epilimna Leaf Miner): Apply at the rate of 1/2 pt per acre. (Rounded Cucumber Beetle, Leafhopper, Southern Armyworm): Apply 1/2 pt per acre. Do not apply within 35 days of harvest.

**RADISHES, PARSNIPS & TURNIPS** (Aphids, Flea Beetle, Epilimna Leaf Miner): Apply 1/2 pt per acre. Do not apply within 10 days of harvest.

**SPINACH & BEETS** (Aphids, Epilimna Leaf Miner): Apply 1/2 pt per acre. Do not apply to spinach within 10 days or to beets within 14 days of harvest.

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# DIAZINON®\* AG4E INSECT SPRAY

FOR CONTROL OF  
**INSECTS ON FRUITS,  
VEGETABLES & FIELD CROPS**  
as listed on the label

ACCEPTED  
004-304

Diazinon® AG4E 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.

**ACTIVE INGREDIENTS:**

O, O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	48%
Xylene	36%
<b>INERT INGREDIENTS:</b>	16%

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.

PRATT-GABRIEL DIVISION, MILLER CHEMICAL & FERTILIZER CORP.  
HANOVER, PA 17331

EPA REG. NO. 904-306

EPA EST. 904-NJ-1

PROD. NO. 23600 NET CONTENTS     GALLONS  
1 5 30 55

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**INSECT BRAND**  
**AG4E**  
**T SPRAY**

**CONTROL OF**  
**ON FRUITS,**  
**& FIELD CROPS**  
 See label

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

Methyl-4-pyrimidinyl)	48%
.....	36%
.....	16%
<b>Total</b>	<b>100%</b>

**4 LBS. DIAZINON® PER GALLON.**  
**AG4E-GEIGY Corp., Ardsley, New York**

**REACH OF CHILDREN**  
**WARNING**  
**PRACTICAL TREATMENT**  
 Vomiting and get medical help promptly.  
 In case of breathing difficulty, apply respiration if indicated.  
 Wash with water for 15 minutes with water. Call a physician for medical statements.

**GEIGY CHEMICAL & FERTILIZER CORP.**  
**PER, PA 17331**

EPA EST. 904-NJ-1

**QUANTITIES**  1  5  30  55 **GALLONS**

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**SQUASH - SUMMER & WINTER:** See MELONS & SQUASH  
**SWEET CORN (Corn Earworm):** Apply 1 1/4 qts per acre when silks first appear. 2 1/2 applications at 7 day intervals 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 Insects.  
**VEGETABLE SOIL INSECTS**  
**CUTWORMS (Surface and Subterranean):** Broccoli, Brussels Sprouts, Cabbage, Cantaloupes, Cauliflower, Celery, Celeriac, Cucumbers, Endive, Escarole, Kale, Lettuce, Lima Beans, Mushrooms, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Sweet Corn, Swiss Chard, Tomatoes, Watermelons, Winter Squash.  
 Broadcast 2.4 qts per acre just prior to planting. Work into the soil immediately. 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.  
**GARDEN SYMPHYLANS (Knapweed):** Cabbage, Carrots, Corn, Lettuce, Peas, Pole Beans, Radishes, Red Beets, Snap Beans, Tomatoes, Turnips.  
 Broadcast 10 qts per acre just prior to planting. Work into soil 4.8 inches immediately. This per plant treatment will also control cutworms (surface & subterranean), mole crickets, root maggots & wireworms.  
**GRASSHOPPERS (GRASSHOPPERS):** 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 3.6 inches immediately.  
**ROOT MAGGOTS (ROOT MAGGOTS):** 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 3.6 inches immediately.  
**WIREWORMS:** Broadcast 2.4 qts per acre just prior to planting. Work into soil 3.6 inches immediately.  
**FRUIT CROPS DIRECTIONS**  
**BLUEBERRIES (Cranberry Fruitworms, Cherry Fruitworms, Blackberry Maggots, Aphids, Thrips, Two-spotted Mite):** 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, I.e., BLACKBERRIES, BOYSENBERRIES, HENDBERRIES, LOGANBERRIES, RASPBERRIES, (Lasiophanes, Thrips, Aphids, Two-spotted Mite, Raspberry Sawfly):** 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 Fruitworm):** Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.  
**(Raspberry Mite):** Mix 2 pts per 100 gals of water. Apply as a dormant spray in the 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 Borer (Raspberry Root Borer):** Mix 2 qts per 100-200 gals of water and apply 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 Miner):** Mix 1 pt per 100 gals of water. Apply in cover sprays as necessary beginning with petal fall.  
**(Cherry Fruit Fly):** Mix 1/2 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.  
**(Lasiophanes):** 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 Aphid):** Mix 1 pt per 100 gals of water. Apply as a cover spray when aphids appear and repeat after 10 days.  
**(San Jose Scale Canker):** 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 Root Mite):** Mix 1/2 pt per 100 gals of water. Apply as a supplemental spray after harvest.  
**CRANBERRIES (Black-headed Formicid):** Apply 2 qts in 400 gals of water per acre.  
**(Cranberry Fruitworm):** Apply 3 qts in 400 gals of water per acre. Do not apply within 7 days of harvest.  
**PEACHES & PEACHES (Aphids, Brown Mites (Cherry Mite), Two Spotted Spider Mite, Olive Scale Canker, San Jose Scale Canker):** Mix 1 pt per 100 gals of water. Apply when aphids, mites and scale crawlers first appear.  
**(Olive Scale Canker):** Mix 1/2 pt of Diazinon AG4E plus 1 1/2 gals light medium horticultural oil per 100 gals of water. Apply when scale crawlers are present.  
**(Bristled Fruit Mite):** 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 Borer):** Mix 1 pt per 100 gals of water and apply to peaches in May and June.  
**(Lasiophanes-Peaches Only):** Apply 1 pt per 100 gals of water in 3-5 applications beginning at petal fall and continuing through the growing season or apply as infestations develop.  
**(White Peach Scale-Peaches Only):** As a post harvest spray apply 1 1/2 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.

**STRAWBERRIES (Aphids, Two-spotted Spider Mite):** Apply 1 pt per 100 gals of water per acre.  
**(Cherry Mite):** Apply 1 qt per 100 gals of water per acre. Directing spray to plant crowns. Provide thorough coverage of the foliage. Make additional applications if necessary after harvest.  
**(White Crickets):** Broadcast 1 qt per acre when insects are present. Apply 1-2 days before transplanting.  
**(Raspberry Leaf Miner):** Mix 1/2 pt per 100 gals of water. Apply 200 gals of spray per acre. Do not apply within 5 days of harvest.

**RANGE, PASTURE and GRASSLAND INSECTS**  
**BANGALANG, PASTURE, BIRCH BARK, BANGALANG, WESTLAND, NON-CROP AREAS AND BARRIERS (Grasshoppers):** Apply 1 pt per acre in a minimum of 5 gals of water or a minimum of 1 gal Dairy and beef cattle and sheep (1) may be grazed immediately following application (2) may be fed and (3) rangeland and pasture grasses should not be cut for hay for 21 days if the spray is a water solution. Do not repeat application for 30 days.  
**NOTE:** Do not spray livestock directly with either air or ground equipment.  
**FIELD AND FORAGE INSECTS DIRECT**  
**ALFALFA and CLOVER (Spotted Alfalfa Aphid, Yellow Clover Aphid, Pea Aphid, Lasiophanes, Plant (Grasshoppers):** Apply 1 pt per acre.  
**(Cutworms - Surface and Subterranean):** Broadcast 2.4 qts per acre just prior to planting. Work into cutworms, 3.6 inches for subterranean cutworms.  
**NOTE:** Following the above applications dairy and beef cattle and sheep (1) may be grazed from green alfalfa or clover immediately following cutting and (2) may be fed hay provided alfalfa or clover treatment.  
**(Alfalfa Mite Larvae):** For control in the Spring apply 2.3 qts per acre when feeding damage application, if necessary. If damage is already extensive cut the hay and make application to the stock for 2 days. Do not cut hay for 10 days following treatment. Do not spray livestock directly with during bloom to avoid injury to pollinating insects.  
**CORN (Corn Rootworm Larvae):** Band Application at Planting Time: Apply 1.2 qts per acre in a minimum the seed furrow or apply 2 1/2 oz per 1000 linear feet of corn row in a 4-7 inch band directly below the seed furrow. Refer to the Row Spacing Chart for amounts recommended per acre.  
**Post-emergence Band Treatment:** Apply 1 1/2 oz per 1000 linear feet of corn row in sufficient water to narrow band of soil next to the plant. Refer to the Row Spacing Chart for amounts recommended per acre using a disk tiller or cultivator immediately after spraying. Application should be made at the first of June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt.  
**ROW SPACING CHART - Suggested rates for Corn Rootworm Larvae**

Row Spacing	Linear Feet of Corn Row/Acre	Amount of Diazinon AG4E P
48"	10,890	28.56 oz
42"	12,855	31.62 oz
40"	13,068	32.64 oz (1 2/3 qts)
38"	13,938	35.70 oz
36"	14,250	36.72 oz
30"	17,424	44.88 oz
24"	21,780	55.10 oz
20"	26,136	64.128 oz (2 1/4 qts)
15"	34,848	86.176 oz

**NOTE:** For row spacings not listed, calculate the approximate damage rates based on the 40 inch spacing.  
**(Seed Corn Maggot):** Broadcast 2.4 qts per acre just prior to planting. Work into cutworms, 3.6 inches for subterranean cutworms.  
**(Cutworms Surface and Subterranean):** Broadcast 2.4 qts per acre just prior to planting. Work into cutworms, 3.6 inches for subterranean cutworms.  
**(Wireworms):** Apply 3.4 qts per acre prior to planting and work into the soil 6.8 inches immediately.  
**(Corn Rootworm Adults):** Apply 1/2 pt per acre.  
**(Corn Leaf Aphid):** Apply 1.2 qts per acre in sufficient water to provide complete coverage of the top necessary.  
**(Mite):** Apply 1 pt per acre in sufficient water to achieve thorough coverage when infestation first appears.  
**(Leaf Beetle):** Apply 1 pt per acre in sufficient water to assure thorough coverage when insects first appear.  
**(Grasshopper):** Apply 1 pt per acre.  
**(Saw Beetle):** Apply 2.2 1/2 qts per acre. Add 1.2 gals of soluble mineral oil per acre to the spray mix proper timing of sprays.  
 Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef SOYBEANS (Cutworms Surface and Subterranean): Broadcast 2.4 qts per acre just prior to planting. Work into cutworms, 3.6 inches for subterranean cutworms.  
**TOBACCO (Aphids, Flea Beetle):** Apply 1/2 pt per acre. Do not apply within 3 days of harvest.  
**(Cutworms):** Broadcast 2.3 qts per acre before transplanting and work into cutworms, 3.6 inches for subterranean cutworms.  
**(Green Bean Beetle Larvae):** Mix 1/2 pt in 50 gals of water and apply as a drench (100 gals per 100 sq ft) sprinkling can.  
**(Seed-corn Maggot):** Broadcast 3 qts per acre 3-4 weeks before transplanting. Work into soil 2 1/2 inches.  
**(Wireworms):** Broadcast 2.3 qts per acre 3-4 weeks before transplanting. Work into soil 6.9 inches.  
**(Grasshopper):** Apply 1 pt per acre. Do not apply within 14 days of harvest.  
**LIMITED WARRANTY: BUYER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING OF THIS MATERIAL. DIRECTIONS GIVEN HEREIN.**

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**SQUASH - SUMMER & WINTER: See MELONS & SQUASH.**

**SWEET CORN (Corn Earworm):** Apply 1 1/4 qts per acre when silks first appear. 2-3 applications at 7-10 day intervals as 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 Insects.

**TOMATOES (Aphids, European Leaf Miner):** Apply 1/2 pt per acre. To control leaf miners, weekly applications are usually required.

**(Horned Cucumber Beetle, Fall Armyworm, Southern Armyworm):** Apply 1/2 pt per acre.

**(Winged Fly - Greenhouse Fly):** Apply 1 1/4 pts per acre. Weekly applications are usually required. Do not apply within 1 day of harvest.

**VEGETABLE SOIL INSECTS**

**CUTWORMS (Surface and Subterranean):**

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

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

**CARROT SPINNYLEGS (Contaminant):**

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

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

**(GRUB MIDGE) (GRUBS):** 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 MIDGE) (BRIBBLE, BRUSSEL 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 (Insect) Application: Mix 1/2 pt in 50 gals of translucent water when 200-300 gals of water are used per acre. May be applied at the rate of 1/2 cupful per plant, either by hand or by tractor-mounted sprayer equipped with 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. **(BIBBLES):** Mix 1 qt in 50 gals of water. Apply 80-100 gals per acre (1 1/2 gals per 1000 linear feet of row) in the seed furrow at planting time.

**WIREWORMS:**

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

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

**(POMME) (Wireworm):** Broadcast 3-6 qts per acre just prior to planting. Immediately disk or harrow into soil 4-8 inches.

**FRUIT CROPS DIRECTIONS**

**BLUEBERRIES (Corymbus Fruitworm, Cherry Fruitworm, Blueberry Maggot, Aphids, Thrips, Two-spotted Mite):** 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, i.e., BLACKBERRIES, BOYSBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES (Leafhopper, Thrips, Aphids, Two-spotted Mite, Raspberry Sawfly):** 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 Fruitworm):** Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.

**(Raspberry Mite):** Mix 2 pts per 100 gals of water. Apply as a dormant spray in the early spring when canes are still in the ground and buds are closed. Make a second application when the buds are well developed, but still closed. Do not apply within 7 days of harvest.

**(Raspberry Crown Borer) (Raspberry Root Borer):** Mix 2 qts per 100-200 gals of water and apply 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 (Two-spotted Mite, Mite, Fruit-tree Leaf Miner):** Mix 1 qt per 100 gals of water. Apply in cover sprays as necessary beginning with petal fall.

**(Cherry Fruit Fly):** Mix 1/2 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.

**(Leafhopper):** 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 Aphid):** Mix 1 pt per 100 gals of water. Apply as a cover spray when aphids appear and repeat after 10 days.

**(San Jose Scale Crawler):** 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 Root Mite):** Mix 1/2 pt per 100 gals of water. Apply as a supplemental spray after harvest.

**CRANBERRIES (Black-headed Fireworm):** Apply 2 qts in 400 gals of water per acre.

**(Cranberry Fruitworm):** Apply 3 qts in 400 gals of water per acre. Do not apply within 7 days of harvest.

**PEACHES & NECTARINES (Aphids, Brown Mite (Crown Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler):** Mix 1 pt per 100 gals of water. Apply when aphids, mites and scale crawlers first appear.

**(Olive Scale Crawler):** Mix 1/2 pt of Basam AGAE plus 1/4 gal light medium horticultural oil per 100 gals of water. Apply when scale crawlers are present.

**(Horned Fruit Mite):** 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 push adult mite flight to a minimum if possible.

**(Peach Twig Borer):** Mix 1 pt per 100 gals of water and apply to peaches in May and June.

**(Leafhopper-Peach Fly):** 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-Peach Fly):** As a post-harvest spray apply 1 1/2 pts per 100 gals of water timed to coincide with peak scale 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.

**(STRAWBERRIES (Aphids, Two-spotted Spider Mite):** Apply 1 pt per 100 gals of water per acre.

**(Systemic Mite):** Apply 1 qt per 100 gals of water per acre. Directing spray to plant crowns. Plants should be sufficiently irrigated to insure thorough coverage of the foliage. Make additional applications if necessary after harvest.

**(Mite Cuckoo):** Broadcast 1 qt per acre when insects are present. Apply 12 days before transplanting and mix into the top 1-2 inches of soil immediately.

**(Strawberry Leaf Miner):** Mix 1/2 pt per 100 gals of water. Apply 200 gals of spray per acre when blossoms show color. Do not apply within 5 days of harvest.

**RANGE, PASTURE and GRASSLAND INSECTS**

**(RANGE, PASTURE, BURN BARNS, BOARDS, WAGELAND, NON-CROP AREAS and BARNER STOMPS)**

**(Greenhopper):** Apply 1/2 pt per acre in a minimum of 5 gals of water or a minimum of 1 gal of oil.

Dairy and beef cattle and sheep (1) may be grazed immediately following application (2) may be fed green forage immediately following cutting and (3) rangeland and pasture grasses should not be 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 repeat application for 30 days.

**NOTE:** Do not spray livestock directly with either air or ground equipment.

**FIELD AND FORAGE INSECTS DIRECTIONS**

**ALFALFA and CLOVER (Spotted Mite Aphid, Yellow Clover Aphid, Pea Aphid, Leafhopper, Plant Bug, Stink Bug, Mite):** Apply 1/2 pt per acre.

**(Greenhopper):** Apply 1/2 pt per acre.

**(Cutworm - 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.

**NOTE:** Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following application (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay produced alfalfa or clover is not cut for hay for 7 days following treatment.

**(Mite) (Mite) (Mite):** For control in the Spring, apply 2-3 pts per acre when feeding damage to growing tops becomes evident. Repeat application if necessary. If damage is already extensive, cut the hay and make application to the stubble. Do not graze dairy and beef animals or sheep for 7 days. Do not cut 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.

**CORN (Corn Rootworm Larvae):** Band Application 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 1/2 oz per 1000 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 Band Treatment:** Apply 1 1/2 oz per 1000 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 banded 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/Row	Amount of Basam AGAE Per Acre	
		Planting Time Application	Post-emergence Band Treatment
48"	10,890	28.56 oz	14.28 oz
42"	12,455	31.62 oz	15.81 oz
40"	13,068	32.64 oz (1.2 qts)	16.32 oz (1/2 qt)
36"	13,939	35.70 oz	17.85 oz
36"	14,250	36.72 oz	18.36 oz
36"	17,474	44.88 oz	22.44 oz
24"	21,780	55.10 oz	27.55 oz
20"	26,136	64.128 oz (2.4 qts)	32.064 oz (1.2 qts)
15"	34,848	85.176 oz	42.588 oz

**NOTE:** For row spacings not listed, calculate the approximate damage rates based on the 40 inch row figures.

**(Seed Corn Maggot):** Broadcast 2-4 qts per acre just prior to planting. Work into soil 2 inches immediately. **(Cutworm - 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.

**(Wireworm):** Apply 3-4 qts per acre just prior to planting and work into the soil 4-8 inches immediately.

**(Corn Rootworm Adults):** Apply 1/2 pt per acre.

**(Corn Leaf Aphid):** Apply 1-2 pts per acre in sufficient water to provide complete coverage of the upper portion of plants. Repeat application as necessary.

**(Mite):** Apply 1 pt per acre in sufficient water to achieve thorough coverage when infestation first appears and repeat applications as necessary.

**(Planthopper):** Apply 1 pt per acre in sufficient water to insure thorough coverage when insects first appear and repeat application as necessary.

**(Greenhopper):** Apply 1/2 pt per acre.

**(Stink Bug):** Apply 2 1/2 pts per acre. Add 1/2 gal of soluble mineral oil per acre to the spray mixture. Consult local agricultural authorities 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.

**SOYBEANS (Cutworm - 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.

**(Nematode) (Aphid, Flea Beetle):** Apply 1/2 pt per acre. Do not apply within 3 days of harvest.

**(Cutworm):** Broadcast 2-3 qts per acre before transplanting and work into the soil 2-4 inches immediately.

**(Common June Beetle Larvae):** Mix 1/2 pt in 50 gals of water and apply as a drench (100 gals per 100 sq yds) to uncultivated areas of per-n beds with springing can.

**(Seed Corn Maggot):** Broadcast 3 pts per acre 3-4 weeks before transplanting. Work into soil 2 inches immediately.

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

**(Greenhopper):** Apply 1/2 pt per acre. Do not apply within 14 days of harvest.

**LIMITED WARRANTY: BUYER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING OF THIS MATERIAL NOT IN STRICT ACCORDANCE WITH DIRECTIONS GIVEN HEREON.**

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