

Wt 4 1/2 lbs

ACCEPTED
JUN 7 1975
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 11656-17



DIAZINON 40

WETTABLE POWDER

ACTIVE INGREDIENT	By Weight
O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	40%
INERT INGREDIENTS	<u>60%</u>
TOTAL	100%

EPA Reg. No. 11656-17-AA

DIAZINON® is a registered trademark of CIBA-Geigy Corp.

NET CONTENTS: 50 POUNDS

WESTERN FARM SERVICE, INC.

2401 Crow Canyon Road
San Ramon, California 94583

WFS 17-01 10-75

WARNING

KEEP OUT OF REACH OF CHILDREN

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

REFER TO SUPPLEMENTAL LABEL FOR USE DIRECTIONS

FISH AND WILDLIFE CAUTION

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

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

Do not reuse container. Destroy it by burying or burning. Avoid smoke or fumes. Dispose of empty containers in accordance with local, state or federal regulations.

NOTICE OF WARRANTY

WESTERN FARM SERVICE MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

11/5/56-17



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INERT INGREDIENTS	60%
	TOTAL 100%

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GENERAL INFORMATION

Best control is obtained when application is made at first sign of insects. Applications should be repeated as necessary to maintain control. Since Diazinon 40 Wettable Powder is a wettable powder formulation, constant agitation is necessary during application. A 5-day re-entry interval has been established for Diazinon on citrus, grapes, peaches and nectarines in California. Five days should lapse between the time of application and the time a worker may enter the field to engage in activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides is applied in combination, the interval shall be protected by adding to the longest applicable interval an additional 50 percent of that interval.

DIRECTION FOR DILUTION

Unless specified, use the following recommendations:
DILUTE APPLICATION: Ground Application: Apply specified rate in 20 to 60 gallons of water per acre. Orchard Application: Apply specified rate in 100 to 800 gallons of water per acre.
CONCENTRATE APPLICATION: Ground Application: Apply specified rate in not less than 5 gallons of water per acre. Orchard Application: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.
AIR APPLICATION: Apply specified rate in 5 to 20 gallons of water per acre. Orchard rates should not be applied in less than 10 gallons of water per acre.

FRUIT & NUT CROPS

Unless specified, use the following rates of Diazinon 40 Wettable Powder: Dilute Application - 6-10 pounds per acre. Air or Concentrate Application - 5-7 lbs. per acre.
ALMONDS: Mites, Peach twig borer - Apply at first signs of insects and repeat as necessary. Barklatteria scale, San Jose scale - dormant spray - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. No time limitation.
APPLES: Leafhoppers - 3-5 applications beginning at petal fall and continuing through the growing season or as infestation develops. San Jose scale, mealybugs, European red mite eggs, brown mite eggs, apple aphid eggs - dormant or delayed dormant spray - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. Eye spotted bud moths, fruit tree leaf rollers, mealybugs - 3-8 cover sprays beginning in pink stage. Do not apply within 14 days of harvest.
APPLES & PEARS: Codling moth, rosy apple aphids, green apple aphid, wooly apple aphid, mites - 3-8 cover sprays beginning with first cover and timed to insect infestations. Apple maggots - Apply 3 cover sprays when flies are active and laying eggs. San Jose scale crawlers, forbes scale crawlers - Apply early in the season when crawlers first appear. If infestation warrants, make a second application 7 to 10 days later. Do not apply within 14 days of harvest.
APRICOTS: San Jose scales, brown apricot scales, walnut scale, apricot mealy bug - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. Apply as a dormant spray. Aphids, brown mites (clover mites), two-spotted spider mites, olive scale crawlers and San Jose scale crawlers - Add 7 gals. of Chicago spray oil per acre.
CHERRIES: Brown apricot scales, San Jose scales, black scales, black cherry aphid eggs and brown mite eggs - Add 6-8 gallons (3-5 gals. concentrate) Super 94 Spray Oil per acre. Apply as a dormant spray. Cherry fruit fly - Make 3 or 4 applications, beginning when adult flies begin to emerge and repeat at 10-day intervals. Black cherry aphids - Apply as a cover spray when aphids appear and repeat after 10 days. Eye spotted bud moths, fruit tree leaf rollers and leafhoppers - Begin treatment at petal fall. Do not make more than 5 applications. San Jose crawlers - Apply during the pre-pink stage or when crawlers

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GENERAL INFORMATION

Best control is obtained when application is made at first sign of insects. Applications should be repeated as necessary to maintain control.

Since Diazinon 40 Wettable Powder is a wettable powder formulation, constant agitation is necessary during application.

A 5-day re-entry interval has been established for Diazinon on citrus, grapes, peaches and nectarines in California. Five days should lapse between the time of application and the time a worker may enter the field to engage in activity requiring substantial contact with treated foliage. When a mixture of two or more insecticide phosphate pesticides is applied in combination, the interval shall be prolonged by adding to the longest applicable interval an additional 50 percent of that interval.

DIRECTION FOR DILUTION

Unless specified, use the following recommendations:

DILUTE APPLICATION: Ground Application: Apply specified rate in 20 to 60 gallons of water per acre. Orchard Application: Apply specified rate in 100 to 800 gallons of water per acre.

CONCENTRATE APPLICATION: Ground Application: Apply specified rate in not less than 5 gallons of water per acre. Orchard Application: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.

AIR APPLICATION: Apply specified rate in 5 to 20 gallons of water per acre. Orchard rates should not be applied in less than 10 gallons of water per acre.

FRUIT & NUT CROPS

Unless specified, use the following rates of Diazinon 40 Wettable Powder: Dilute Application - 6-10 pounds per acre. Air or Concentrate Application - 5-7 lbs. per acre.

ALMONDS: Mites, Peach twig borer - Apply at first signs of insects and repeat as necessary. Parlatoria scale, San Jose scale - dormant spray - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. No time limitation.

APPLES: Leafhoppers - 3-5 applications beginning at petal fall and continuing through the growing season or as infestation develops. San Jose scale, mealybugs, European red mite eggs, brown mite eggs, apple aphid eggs - dormant or delayed dormant spray - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. Eye spotted bud moths, fruit tree leaf rollers, mealybugs - 3-8 cover sprays beginning in pink stage. Do not apply within 14 days of harvest.

APPLES & PEARS: Codling moth, rosy apple aphids, green apple aphid, woolly apple aphid, mites - 3-8 cover sprays beginning with first cover and timed to insect infestations. Apple maggots - Apply 3 cover sprays when flies are active and laying eggs. San Jose scale crawlers, forbes scale crawlers - Apply early in the season when crawlers first appear. If infestation warrants, make a second application 7 to 10 days later. Do not apply within 14 days of harvest.

APRICOTS: San Jose scales, brown apricot scales, walnut scale, apricot mealy bug - Add 6-8 gals. (3-5 gals. concentrate) Super 94 Spray Oil per acre. Apply as a dormant spray. Aphids, brown mites (clover mites), two-spotted spider mites, olive scale crawlers and San Jose scale crawlers - Add 7 gals. of foliage spray oil per acre.

CHERRIES: Brown apricot scales, San Jose scales, black scales, black cherry aphid eggs and brown mite eggs - Add 6-8 gallons (3-5 gals. concentrate) Super 94 Spray Oil per acre. Apply as a dormant spray. Cherry fruit fly - Make 3 or 4 applications, beginning when adult flies begin to emerge and repeat at 10-day intervals. Black cherry aphids - Apply as a cover spray when aphids appear and repeat after 10 days. Eye spotted bud moths, fruit tree leaf rollers and leafhoppers - Begin treatment at petal fall. Do not make more than 5 applications. San Jose crawlers - Apply during the pre-pink stage or when crawlers first appear. Cherry rust mite - Apply as a supplemental spray after harvest. Do not apply within 10 days of harvest.

CRANBERRIES: Blackheaded fireworms - Apply 5 lbs. per acre in 400 gals. of water. Cranberry fruitworms - Apply 7 1/2 lbs. per acre in 400 gals. of water. Do not apply within 7 days of harvest.

FIGS: Vinegar flies (*Drosophila* spp.), dried fruit beetles - Apply 6 to 10 lbs. per acre. Do not apply within 5 days of harvest at the 6 lb. rate, rates over 6 lbs. to 10 lbs. do not apply within 10 days of harvest.

HILBERTS: Fruit leaf rollers, aphids - Apply 2 1/2 to 5 lbs. in 250-400 gals. of water per acre as a thorough cover spray. No time limitation.

CITRUS: (Various Citrus, Lemons, Limes, Oranges, Tangerines, Tangelines, Citrus Citron, Kumquats and Hybrids of These Citrus) Citrus aphid, century cushion scale crawlers and soft scale crawlers - 7 1/2 lbs. in 120 gals. per acre. Thorough cover spray when first scale crawlers appear. Fruit tree leaf rollers - Apply 2 1/2 lbs. in 250 gals. of water per acre when first scale crawlers appear. Citrus rust mite - Apply 2 1/2 to 5 lbs. per acre when the first signs of Citrus rust mite are observed. Thorough cover spray of tree fruit buds, and target the buds. Do not apply within 21 days of harvest.

WESTERN FARM SERVICE, INC.

2401 Cross Country Road
San Ramon, California 94583

GRAPES: Pacific spruce budworm, leafhopper, grape berry moth, grape leaf miner. Apply 2½ lbs. per acre. Do not apply within 10 days of harvest. Do not apply within 10 days of harvest. Do not apply within 10 days of harvest.

OLIVES: Olive scale. Apply 4-8 lbs. per acre. Super 94 Spray Oil per acre as a dormant spray. Do not apply within 14 days of harvest.

PEACHES, NECTARINES: San Jose scale, brown mites, mealybugs, walnut scale, peach twig borer, leafhoppers. Apply 1½ to 2½ lbs. per acre. Super 94 Spray Oil per acre as a dormant spray. Do not apply within 14 days of harvest. Do not apply within 14 days of harvest. Do not apply within 14 days of harvest.

PEARS: Rosy apple aphid, green apple aphid, woolly apple aphid, codling moth, pear psylla, tentiform leaf miner, mealybugs, San Jose scale, brown mites, pear leaf blister mites, mealybugs, San Jose scale, brown mites. Add 6-8 gals. (4-5 gals. concentrate) Super 94 Spray Oil per acre as a dormant spray. Do not apply within 14 days of harvest.

PECANS: Aphids, mites, pecan nut casebearer, walnut caterpillars. Apply 2½ to 7½ lbs. per acre. Do not apply after hucks crack.

PINEAPPLES: Pineapple scales. Apply 12½ lbs. plus 2 gals. light or medium horticultural oil per acre. Apply on vegetable slips after harvest. Pineapple mealybugs. Apply 5 lbs. per acre. Pineapple forage and refuse may be fed to livestock 7 days after last application.

PLUMS, PRUNES: Peach twig borers, mealy plum aphid eggs, San Jose scale, parlatoria scales, brown almond mites. Add 6-8 gals. (3-5 lbs. concentrate) Super 94 Spray Oil per acre. Brown mites, clover mites, European red mites, leaf curl plum aphid, mealy plum aphids, thistle aphids. Do not apply within 10 days of harvest.

STRAWBERRIES: Aphids, two-spotted spider mites. Apply 1½ to 2½ lbs. per acre. Cyclamen mite. Insect spray to plant crowns. Agitate plants to assure thorough coverage of foliage. Mole cricket. Apply 1-2 days before transplanting and work into top 1-2 inches of soil. Strawberry leaf roller. Apply when blossoms show color. Apply 2½ lbs. per acre. Do not apply within 5 days of harvest.

WALNUTS: Aphids, mites. Apply 2½ to 7½ lbs. per acre. Codling moths, scab caterpillars, walnut caterpillars. Apply 7½ lbs. per acre. Do not apply after hucks crack.

VEGETABLES

Apply at first sign of insects and repeat as necessary.

BEANS (Pole Beans, Snap Bean, Lima Bean): Black bean aphid, Mexican bean beetle, leaf miners. Apply 1½ to 2½ lbs. per acre. Cucumber beetles. Apply ½ to 2 lbs. per acre. Lima beans only. Caterpillar leaf miners, leafhoppers, mites. Apply 1½ lbs. per acre. Do not apply within 7 days of harvest. Forage and hay may be fed to beef cattle, dairy cattle and sheep. Wait 4 days following treatment, if forage is to be cut for hay.

BROCCOLI, CABBAGE, CAULIFLOWER: Aphids, diamondback moths, imported cabbage worm. Apply ½ to 1½ lbs. per acre. Do not apply within 7 days of harvest on cabbage, 5 days of harvest on broccoli and cauliflower.

BRUSSELS SPROUTS: Aphids, diamondback moth, imported cabbage worm. Apply 1½ lbs. per acre. Do not apply within 7 days of harvest.

CARROTS: Aphids. Apply 1½ lbs. per acre. Do not apply within 10 days of harvest.

CELERY: Aphids, flea beetles. Apply 1½ lbs. per acre. Dipterous leaf miner. Apply ½ to 1½ lbs. per acre. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or feed.

COLLARDS, KALE, SWISS CHARD, TURNIP TOPS: Aphids, imported cabbage worm, diamondback moth, harlequin stink bug, corn earworm. Apply ½ to 1½ lbs. per acre. Do not apply within 12 days of harvest on Swiss chard, 10 days of harvest on collards, kale, turnip tops.

CUCUMBERS: Aphids, serpentine leaf miners, thrips. Apply 1½ lbs. per acre. Do not apply within 7 days of harvest.

LETTUCE, ENDIVE, SPINACH, RADISHES, PARSNIPS, TURNIPS, BEETS: Apply 1½ lbs. per acre. Dipterous leaf miners. Apply ½ to 1½ lbs. per acre. Do not apply within 4 days of harvest on beets, 10 days of harvest on lettuce, endive, spinach, radishes, parsnips, turnips.

MELONS, SQUASH (Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and Hybrids of these; Watermelons and their Hybrids, Summer and Winter Squash): Aphids, leafhoppers, mites. Apply 1½ to 2½ lbs. per acre. Serpentine leaf miners, thrips. Apply ½ to 1½ lbs. per acre. Do not apply within 7 days of harvest for summer squash, 3 days of harvest for melons or winter squash.

MUSHROOM HOUSES: Mushroom flies (Phoridae and Sciariidae). Apply 5-8 lbs. per 50 gals. of water. Spray on outside and inside walls and ventilators after compost in beds has been pasteurized by heating. Do not spray compost in beds or after spawning. Apply ½ lbs. per 6 gals. of water with a brush to treat wooden sides of beds, posts and door frames after pasteurizing. Do not treat compost.

11656-17

Broccoli	Cucumbers	Parley	Sweet Corn
Brussels Sprouts	Endive	Peas	Swiss Chard
Cabbage	Kale	Peppers	Tomatoes
Cantaloupes	Lettuce	Snap Beans	Watermelons
Cauliflower	Lima Beans	Spinach	Winter Squash
Celery	Muskmelons		
Collard			

Apply 5-10 lbs. per acre. Apply 1 inch before planting. Work into soil immediately 2 inches for surface cutworms, 3-6 inches for subterranean cutworms.

GARDEN SYMPHYLANS (centipedes):			
Cabbage	Lettuce	Radishes	Tomatoes
Carrots	Peas	Red Beets	Turnips
Corn	Pole Beans	Snap Beans	

Apply 25 lbs. per acre. Apply broadcast just before planting. Work into soil immediately.

MOLE CRICKETS: Apply 2½ lbs. per acre on the following crops. Apply to plants 1-2 days before sowing seed or transplanting. Work into soil 1-2 inches immediately.

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

ONION BEGGOTS: Onions. Apply 2½ lbs. per acre. Branch seed furrows at planting. Apply 5-10 lbs. per acre as a broadcast treatment before planting. Work into soil 1-2 inches immediately.

ROOT MACHINES: Apply 5 to 7½ lbs. per acre on the following crops, as a broadcast treatment and immediately work into soil 3-4 inches before seeding, either in seed beds or in field before transplanting.

Broccoli	Brussels Sprouts	Cabbage	Cauliflower
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WIREWORMS: Apply broadcast before planting and work into soil 4-8 inches immediately.

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

Apply 7½ to 10 lbs. per acre. Potatoes. Apply 7½ to 15 lbs. per acre.

SOUTHERN POTATO WIREWORMS: Potatoes. Apply 5-10 lbs. per acre. For southeastern U.S. only. Broadcast before planting and immediately work into soil 3-6 inches.

FORAGE & FEED INSECTS

ALFALFA CLOVER: Spotted alfalfa aphid, yellow clover aphid, pea aphid, leafhoppers, plant bug nymphs, mites. Apply 1 to 1½ lbs. per acre. Grasshoppers. Apply 1½ lbs. per acre. Cutworms (surface and subterranean). Apply 5-10 lbs. per acre. Broadcast just before planting and work into soil immediately. Two to 3 inches for surface cutworms, 3-6 inches for subterranean cutworms. Dairy and beef cattle and sheep may be grazed immediately following applications, may be fed green alfalfa immediately following cutting, may be fed hay provided alfalfa is not cut for hay for 7 days following treatment. Do not spray livestock directly with either air or ground equipment.

Alfalfa Weevil Larvae: Apply 2½ to 3½ lbs. per acre. Apply in spring when feed damage to growing tips become evident. Repeat, if necessary, if damage is already extensive, cut hay and apply to stock. Do not graze dairy or beef cattle or sheep for 2 days. Do not cut for hay for 7 days after treatment. Do not spray livestock directly. Do not treat during bloom.

CORN (Field and Sweet): Corn rootworm larvae. Apply ½ to 6½ oz. per 1,000 linear feet of row at planting time in seed furrows with a 4-7 inch band directly behind planter shoe in a minimum of 5 gals. of water per acre. For post emergence broadcast treatment, apply 1-9/16 to 3¼ oz. per 1,000 linear feet of row. Apply to wet base of corn plant and narrow band of soil next to plant. Cover treated band with 2-3 inches of soil using disk harrow or cultivator immediately after application. Apply at first sign of larvae. Do not apply later than June 24 in middle corn belt or July 1 in northern corn belt.

Cutworms (Surface and Subterranean): Apply 5-10 lbs. per acre. For surface cutworms, apply just before planting or when larvae first appear and work into soil 1-2 inches immediately. Do not apply later than hays. For subterranean cutworms, apply just before planting and work into soil 3-6 inches immediately.

Wireworms: Apply 7½ to 10 lbs. per acre. Apply before planting and work into soil.

Corn Root Worms (Adults): Apply ½ to 1½ lbs. per acre.

Corn Leaf Aphid: Apply 1½ to 2½ lbs. per acre. Completely cover upper portions of plants.

Grasshoppers: Apply 1½ lbs. per acre.

Sap Beetles: Apply 2½ to 3½ lbs. per acre. Add 1-2 gals. soluble mineral oil to spray mixture per acre. Consult State Extension Service for proper timing of sprays. Corn may be harvested immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

COTTON: Spider mites, aphids, leafhoppers, lygids, cotton leafworms, cotton leaf perforators. Apply 1½ to 2½ lbs. per acre. Do not apply within 14 days of harvest. Do not graze treated cotton plants nor feed gin waste to livestock.

PINEAPPLES: Pineapple scales - Apply 1 1/2 lbs. per acre. Night or medium horticultural oil per acre. Apply on vegetable slips after harvest. Pineapple mealybugs - Apply 5 lbs. per acre. Pineapple forage and refuse may be fed to livestock 7 days after last application.

PLUMS, PRUNES: Peach twig borers, mealy plum aphid eggs, San Jose scale, parlatoria scales, brown almond mites - Add 6-8 gals. (3-5 lbs. concentrate) Super 94 Spray Oil per acre. Brown mites, clover mites, European red mites, leaf curl plum aphids, mealy plum aphids, thistle aphids. Do not apply within 10 days of harvest.

STRAWBERRIES: Aphids, two-spotted spider mites - Apply 1 1/2 to 2 1/2 lbs. per acre. Cyclamen mites (direct spray to plant crowns. Agitate plants to assure thorough coverage of fungus), mole cricket (apply 1-2 days before transplanting and work into top 1-2 inches of soil), strawberry leaf roller (apply when blossoms show color) - Apply 2 1/2 lbs. per acre. Do not apply within 5 days of harvest.

WALNUTS: Aphid mites - Apply 2 1/2 to 7 1/2 lbs. per acre. Galling moths, scab crawlers, walnut caterpillars - Apply 7 1/2 lbs. per acre. Do not apply after harvest.

Apply...

VEGETABLES

Apply at first sign of insects and repeat as necessary.

BEANS (Pole Bean, Snap Bean, Lima Bean): Black bean aphids, Mexican bean beetle, leaf miners - Apply 1 1/2 to 1 3/4 lbs. per acre. Cucumber beetles - Apply 5/8 to 2 lb. per acre. Lima beans only, dipterous leaf miners, leafhoppers, mites - Apply 1 1/4 lbs. per acre. Do not apply within 7 days of harvest. Forage and hay may be fed to beef cattle, dairy cattle and sheep. Wait 4 days following treatment, if forage is to be cut for hay.

BROCCOLI, CABBAGE, CAULIFLOWER: Aphids, diamondback moths, imported cabbage worm - Apply 5/8 to 1 1/2 lbs. per acre. Do not apply within 7 days of harvest on cabbage, 5 days of harvest on broccoli and cauliflower.

BRUSSELS SPROUTS: Aphids, diamondback moth, imported cabbageworm - Apply 1 1/4 lb. per acre. Do not apply within 7 days of harvest.

CARROTS: Aphids - Apply 1 1/4 lbs. per acre. Do not apply within 10 days of harvest.

CELERY: Aphids, flea beetles - Apply 1 1/4 lb. per acre. Dipterous leaf miner - Apply 5/8 to 1 1/4 lb. per acre. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for food or feed.

COLLARDS, KALE, SWISS CHARD, TURNIP TOPS: Aphids, imported cabbage worm, diamondback moth, harlequin stink bugs, corn earworm - Apply 5/8 to 1 1/4 lb. per acre. Do not apply within 12 days of harvest on Swiss chard, 10 days of harvest on collards, kale, turnip tops.

CUCUMBERS: Aphids, serpentine leaf miners, thrips - Apply 1 1/4 lbs. per acre. Do not apply within 7 days of harvest.

LETTUCE, ENDIVE, SPINACH, RADISHES, PARSNIPS, TURNIPS, BEETS: Aphids, dipterous leaf miners - Apply 5/8 to 1 1/4 lbs. per acre. Do not apply within 4 days of harvest on beets, 10 days of harvest on lettuce, endive, spinach, radishes, parsnips, turnips.

MELONS, SQUASH (Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and Hybrids of these; Watermelons and their Hybrids, Summer and Winter Squash): Aphids, leafhoppers, mites - Apply 1 1/4 to 1 3/4 lbs. per acre. Serpentine leaf miners, thrips - Apply 5/8 to 1 1/4 lbs. per acre. Do not apply within 7 days of harvest for summer squash, 3 days of harvest for melons or winter squash.

MUSHROOM HOUSES: Mushroom flies (Phorids and Sciardids) - Apply 5-8 lbs. per 50 gals of water. Spray on outside and inside walls and ventilators after compost in beds has been pasteurized by heating. Do not spray compost in beds or after spawning. Apply 1 1/2 lbs. per 6 gals. of water with a brush to treat wooden sides of beds, posts and door frames after pasteurizing. Do not treat compost.

ONIONS: Onion thrips - Apply 1 1/4 lbs. per acre. Do not apply within 10 days of harvest.

PEAS: Aphids, leaf miners - Apply 1 to 1 1/2 lbs. per acre. Peas may be picked immediately. Peavines and peavine hay may be fed to dairy cattle, beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

PEPPERS: Aphids, serpentine leaf miners - Apply 5/8 lbs. per acre. Do not apply within 5 days of harvest.

POTATOES: Aphids, flea beetles, Colorado potato beetles, dipterous leaf miners - Apply 5/8 to 1 lb. per acre. Banded cucumber beetle, leafhoppers, southern armyworms - Apply 1 to 1 1/4 lbs. per acre. Do not apply within 35 days of harvest.

SWEET CORN: Corn earworm - Apply 2 1/2 to 3 1/4 lbs. per acre when silks first appear. Two or 3 applications at 2- to 3-day intervals will usually be necessary. May be picked immediately following last application. Corn forage may be fed to dairy cattle, beef cattle and sheep.

TOMATOES: Aphids, flea beetles, Colorado potato beetles, dipterous leaf miners, southern armyworms - Apply 1 to 1 1/4 lbs. per acre. Vinegar flies - Apply 5/8 to 1 lb. per acre. Do not apply within 1 day of harvest.

WATERCRESS (Hawaii Only): Cyclamen mites - Apply 1 1/2 lbs. per acre. Do not apply within 5 days of harvest.

SOIL INSECTS:

Apply roach powder... with 10... of water per acre by ground application.

Apply roach powder... per acre to soil furrow at planting time.

Work into soil 3-4 inches.

ROOT MAGGOTS: Apply 5 to 7 1/2 lbs. per acre on the following crops, as a broadcast treatment and immediately work into soil 3-4 inches before seeding, either in seed bed or in field before transplanting.

Broccoli Brussels Sprouts Cabbage Cauliflower

WIREWORMS: Apply broadcast before planting and work into soil 4-8 inches immediately.

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

Apply 7 1/2 to 10 lbs. per acre. For peas - Apply 7 1/2 to 15 lbs. per acre.

SOUTHERN POTATO WIREWORMS: Potatoes - Apply 5-10 lbs. per acre. For southeastern U.S. only. Broadcast before planting and immediately work into soil 3-6 inches.

FORAGE & FEED INSECTS

ALFALFA CLOVER: Spotted alfalfa aphid, yellow clover aphid, pea aphid, leafhoppers, plant bug nymphs, mites - Apply 1 to 1 1/4 lbs. per acre. Grasshoppers - Apply 1 1/4 lbs. per acre. Cutworms (surface and subterranean) - Apply 5-10 lbs. per acre. Broadcast just before planting and work into soil immediately. Two to 3 inches for surface cutworms, 3-6 inches for subterranean cutworms. Dairy and beef cattle and sheep may be grazed immediately following applications, may be fed green alfalfa immediately following cutting, may be fed hay provided alfalfa is not cut for hay for 7 days following treatment. Do not spray livestock directly with either air or ground equipment.

Alfalfa Weevil Larvae: Apply 2 1/2 to 3 1/4 lbs. per acre. Apply in sprouts when feed damage to growing tips become evident. Repeat, if necessary, if damage is already extensive, cut hay and apply to stubble. Do not graze dairy or beef cattle or sheep for 2 days. Do not cut for hay for 10 days after treatment. Do not spray livestock directly. Do not treat during bloom.

CORN (Field and Sweet): Corn rootworm larvae - Apply 3 1/2 to 6 1/4 oz. per 1,000 linear feet of row at planting time in seed furrow in a 4-7 inch band directly behind planter shoe in a minimum of 5 gals. of water per acre. For post emergence control treatment, apply 1-9/16 to 3 1/8 oz. per 1,000 linear feet of row. Apply to wet base of corn plant and narrow band of soil next to plant. Cover treated band with 2-3 inches of soil using disk hiller or cultivator immediately after application. Apply at first sign of larvae. Do not apply later than June 24 in middle corn belt or July 1 in northern corn belt.

Cutworms (Surface and Subterranean): Apply 5-10 lbs. per acre. For surface cutworms, apply just before planting or when larvae first appear and work into soil 1-2 inches immediately. Do not apply later than larval. For subterranean cutworms, apply just before planting and work into soil 3-6 inches immediately.

Wireworms: Apply 7 1/2 to 10 lbs. per acre. Apply before planting and work into soil.

Corn Root Worms (Adults): Apply 5/8 to 1 1/4 lbs. per acre.

Corn Leaf Aphid: Apply 1 1/4 to 2 1/2 lbs. per acre. Completely cover the upper portions of plants.

Grasshoppers: Apply 1 1/4 lbs. per acre.

Sap Beetles: Apply 2 1/2 to 3 1/2 lbs. per acre. Add 1-2 gals. soluble mineral oil to spray mixture per acre. Consult State Extension Service for proper timing of sprays. Corn may be harvested 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 1/4 to 2 1/2 lbs. per acre. Do not apply within 14 days of harvest. Do not graze treated cotton plants nor feed gin waste to livestock.

COWPEAS, LESPEDEZA: Cutworms (surface and subterranean) - Apply 5-10 lbs. per acre. Broadcast just before planting and work into soil immediately. 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

HOPS: Aphid, mites - Apply 2 1/2 lbs. per acre. Do not apply within 14 days of harvest.

PEANUTS: Cutworms (surface and subterranean) - Apply 5 lbs. per acre. Apply in 12-inch band over row when small larvae appear. Two or 3 more applications at 3-week intervals may be necessary. Do not apply within 21 days of harvest. Livestock may be fed peanut hulls, may be fed peanut forage 7 days following treatment and may be fed peanuts.

SORGHUM: Sorghum midge - Apply 1 1/2 to 1 3/4 lbs. per acre. Apply when 90% of heads have emerged from field. Repeat within 4 days. Do not apply within 7 days of harvest for grain. Corn may be fed to livestock immediately following treatment. Cutworms (surface and subterranean) - Apply 5-10 lbs. per acre. Broadcast just before planting and work into soil immediately. 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

SOYBEANS: Cutworms (surface and subterranean) - Apply 5-10 lbs. per acre. Broadcast just before planting and work into soil immediately. 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

SUGAR BEETS: Leaf beetles, leaf miners, aphids - Apply 1 1/2 to 2 1/2 lbs. per acre. Grasshoppers apply 1 1/4 lbs. per acre. No time limitation. Tops may be fed to dairy and beef cattle.

Wireworms: Apply 7 1/2 to 10 lbs. per acre. Apply before planting and work into soil 4-8 inches immediately.

SUGARCANE: Aphids - Apply 1 1/2 to 2 1/2 lbs. per acre. Do not apply within 1 day of harvest. For forage application, do not graze until 7 days after treatment.

Wireworms: Apply 10 lbs. per acre. Apply in 12-inch band directly behind planter shoe at planting time.

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TOBACCO Aphids: (Other Than Tobacco) - Apply 1 1/2 to 2 lbs. per acre and apply within 10 days of hatching.

Cat-worms (Surface and Subterranean): Apply 1 1/2 to 2 lbs. per acre. Broadcast or spot treat to control caterpillars on grasses, 2-4 inches high.

Corn Root Weevil: Apply 1 1/2 to 2 lbs. per acre. Broadcast or spot treat 100 sq. ft. per acre as a drench on irrigated areas or on soil that is waterlogged.

Plant Root Weevil: Apply 2 1/2 to 3 lbs. per acre. Broadcast on insects on plants. Apply to beds or fields 1-2 inches before sowing seed or transplanting and work into soil 1-2 inches immediately.

Seed Corn Maggots: Apply 3/4 lbs. per acre. Broadcast 3-4 weeks before transplanting and work into soil 2 inches immediately. Transplant water application use 1 1/2 to 3 1/4 oz. per 10 gals. of water.

Wireworms: Apply 5 to 7 1/2 lbs. per acre. Broadcast 3-4 weeks before transplanting and work into soil 6-9 inches immediately. Transplant water application use 1 1/2 to 3 1/4 oz. per 10 gals. of water.

RANGE, PASTURE & GRASSLAND

BERMUDA GRASS AND FORAGE GRASSES (Other Than Range and Pasture Grasses): Thrips, white flies, grasshoppers - Apply 1 1/2 lbs. per acre. Apply in a minimum of 5 gallons water per acre by ground or air. Sheep, dairy and beef cattle may be grazed immediately following applications, may be fed green forage immediately following cutting and grass may be cut for hay 7 days following treatment. Do not repeat application more often than once every 30 days.

RANGELAND, PASTURE, GRASS FORAGE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS AND BARRIER STRIPS: Grasshoppers - Apply 1 to 1 1/2 lbs. per acre. Apply in a minimum of 5 gals. of water per acre by ground or air. Sheep, beef and dairy cattle may be grazed immediately following application; may be fed green forage immediately following cutting and may be fed hay providing 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. For rangeland, pasture and grain forage, do not repeat application more often than once every 30 days.

LIVESTOCK INSECTS

Sheep tick, lice: - For high yield range, high pressure spray, use 5 lbs. per 100 gals. of water and use 1 gal. solution per animal. For low pressure, low gallonage spray use 1 1/2 lbs. per 100 gals. of water and use 1 qt. solution per animal. Do not apply this product to sheep within 14 days of slaughter.

FLY CONTROL

Residual spray: - Apply 2 1/2 to 5 lbs. in 25 gals. of water. Apply to ceiling and walls of livestock sheds, calf barns, hog barns and other farm buildings. Spray other areas where flies congregate, such as garbage dumps and cesspools. Use the high rate for longer residual control. Apply to point of runoff. One gallon of spray mix covers 300-700 sq. feet. Repeat as necessary.

Spot Bait Spray: - Apply 1 1/2 lbs. per 5 gallons of water plus 2 lbs. sugar. Apply with knapsack or similar type sprayer to areas frequented by flies such as doorways and around windows. Repeat as necessary.

Maggot Control: - Apply 2 1/2 oz. per 5 gals. of water and apply over 500 sq. feet in fly breeding areas such as garbage dumps and manure piles. Apply as a coarse spray or with sprinkler cans. Do not apply in poultry houses, dairy barns or milk rooms. Remove animals from buildings during sprayings and keep them out at least 4 hours. Do not spray animals or contaminate their feed or drinking water. Do not use in dwellings. Do not use in poultry houses except for control of fly maggots in manure where poultry is on wire and cannot come into contact with the product. Good sanitation and proper disposal of wastes are necessary in any event. **Maggots in vine stocks and other refuse:** - Apply 1 1/2 lbs. in 20 gallons of water. Apply 1 gal. of solution per 100 sq. feet. Do not feed treated vines or refuse to animals.

TURF INSECTS

LAWN CHINCH BUGS: Apply 2 1/2 to 3 1/4 oz. or 3 1/4 to 7 1/2 oz. per 25 gal. of water (alternatively apply 1/3 gals. and water thoroughly immediately to cover 1,000 sq. feet. Use higher rates for longer residual control in lawns of dense growth such as St. Augustine lawns. Thoroughly wet down grass a few hours before applying.

ANTS, AFMYWORMS, CLEVER MITES, COLLEMBOLA, CRICKETS, CUTWORMS, DIGGER WASPS, EARWIGS, FRIT FLIES, LAWN BILLBUGS, SOY WEBWORMS, SOWBUGS: Apply 5 oz. per 3 gals. of water to cover 1,000 sq. feet. Thoroughly wet down grass a few hours before applying. Spot spray ant hills and wasp ground nest openings. Apply when wasps are not active. 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.

BERMUDA MITES, CHIGERS, FLEAS, LEAFHOPPERS, TICKS: Apply 1 1/2 oz. per 3 gals. of water per 1,000 sq. feet. Thoroughly wet down grass a few hours before applying. For lawns free of ticks, spray grass and under shrubbery, particularly near house. Do not apply to animals.

MILLIPEDES: Apply 10 oz. per 3 gals. of water to cover 1,000 sq. feet.

RHODESGRASS SCALES: - Apply 6 1/4 oz. per 25 gals. of water to cover 1,000 sq. feet. Apply when crawlers first emerge.

