

Code
Diazinon 50 WP
Insecticide

Net Weight

EPA Reg. No. 279-

EPA Establishment 279-

Active Ingredient

Diazinon: 0,0-diethyl 0-(2-isopropyl-6-methyl-
4-pyrimidinal) phosphorothioate

Inert Ingredients

50.0%
50.0%
100.0%

Keep Out of Reach of Children

WARNING

See other panels for additional precautionary information.

For Emergency Assistance call (716) 735-3765

FMC Corporation
Agricultural Chemical Group
2000 Market Street
Philadelphia, PA 19103

(PA-5/83)

d212A2(2)
dd30

ACCEPTED
with COMMENTS
In EPA Letter Dated:

OCT 7 1983

For use of Diazinon 50 WP
as a general household insecticide
under the Federal Insecticide, Fungicide, and Rodenticide Act
as amended, for the pesticide
registration under EPA Reg. No.

279-3037

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops or persists.

Note to Physician: Gastric lavage is indicated. Atropine sulfate and 2-PAM are specific antidotes.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

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 and before eating or smoking. 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 onto sprayed grass until spray has completely dried.

Environmental Hazards

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated areas. 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.

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 mixture 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. Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult Federal, state, or local disposal authorities for approved alternative procedures such as limited open burning.

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General Information

Diazinon 50 WP should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the Directions for Use. Best control is obtained when application is made at first sign of insects. Applications should be repeated as necessary to maintain control.

Note: The California Department of Agriculture has set a 6-day reentry for diazinon on citrus, grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organic phosphate pesticides is applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

Since **Diazinon 50 WP** is a wettable powder formulation, constant agitation is necessary during application.

Fruit and Nut Insects

Diazinon 50 WP may be applied using ground or aerial application equipment. For dilute ground sprays, mix specified rate and apply at 300 to 600 gals. of water per acre. For concentrate ground sprays, use equivalent rates* of **Diazinon 50 WP** in minimums of 20-50 gals. of water per acre. For aerial applications, use equivalent ground rates* of **Diazinon 50 WP** in minimums of 2-5 gals. of water per acre. Observe stated time intervals between last application and harvest.

***NOTE:** The rate of **Diazinon 50 WP** for concentrate ground and aerial sprays is based upon a dilute ground spray with conventional ground equipment applied at 300 to 600 gals. of water per acre. If directions call for 1 lb. of product per 100 gals. of water, this amounts to 3 to 6 lbs. of **Diazinon 50 WP** per acre when applied as dilute ground spray volumes.

Almonds

Mites, Twig borers. Apply 1-1½ lbs. per 100 gals. of water as infestations develop.

Scales (including San Jose, parasitic, black, brown, apricot), Mite eggs (including European red mite, brown mite), Twig borers, Aphid eggs (including apple, black cherry, mealy plum), Mealybugs. Apply as a dormant spray 1-1½ lbs. plus 2-3 gals. of dormant oil or 1-1½ gals. superior type oil per 100 gals. of water.

Almond hulls may be fed to livestock.

Apples

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

Scales (including San Jose, parasitic, black, brown, apricot), Mite eggs (including European red mite, brown mite), Twig borers, Aphid eggs (including apple, black cherry, mealy plum), Mealybugs. Apply as a dormant or delayed-dormant spray 1 lb. of plus 2 gal. dormant oil or 1-1½ gals. superior type oil per 100 gals. of water.

Eyespotted bud moth, Fruit-tree leafroller, Mealybug. Mix 1 lb. per 100 gals. of water. Make 3-5 cover spray applications, beginning in the pink stage.

Do not apply within 14 days of harvest.

Apples and Pears

Codling moth, Rosy apple aphid, Green apple aphid, Woolly apple aphid, Mites. Mix 1 lb. per 100 gals. of water. Make 3-5 cover spray applications, beginning with the first cover. Applications should be timed according to insect infestations.

Apple maggot: Mix 1 lb. of per 100 gals. of water. Make at least 3 cover spray applications when flies are active and laying eggs.

San Jose scale crawlers, Forbes scale crawlers. Mix 1 lb. per 100 gals. of water. Apply early in the season when crawlers first appear. If infestation warrants, make a second application 7-10 days later.

Note: Mites will be suppressed if **Diazinon 50 WP** is used in the regular cover spray program. Slight russeting may occur on some varieties of apples, such as Golden Delicious.

Do not apply to apples or pears within 14 days of harvest.

Apricots

Scales (including San Jose, parasitic, black, brown, apricot, walnut), Mite eggs (including European red mite, brown mite), Twig borers, Aphid eggs (including apple, black cherry, mealy plum), Mealybugs. Apply as a dormant spray 1 lb. plus 2 gals. of dormant oil or 1-1½ gals. superior type oil per 100 gals. of water.

Aphids, Brown mite (Clover mite), Twospotted spider mite, Olive scale crawlers, San Jose scale crawlers. Mix 1 lb. per 100 gals. of water. Apply when aphids, mites and scale crawlers first appear.

Olive scale crawlers. Mix ½ lb. plus ½ gal. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Apricot mealybug. Mix 1 lb. 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 fruitworm, Cherry fruitworm, Blueberry maggot, Aphids, Thrips, Twospotted mite. Mix 1 lb. per 100 gals. of water. Apply up to 200 gals. of spray per acre or apply 2 lbs. per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest.

Caneberries (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)

Leafhoppers, Thrips, Aphids, Twospotted mite, Raspberry sawfly. Mix 1 lb. per 100 gals. of water and apply up to 200 gals. of spray per acre, or apply 2 lbs. 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.

Dryberry mite. Mix 2 lbs. per 100 gals. of water. Apply as a dormant spray in early spring, when cones are still on the ground and buds are closed. Make a second application when the buds are well developed but still closed.

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Raspberry crown borer (Raspberry root borer): Mix 4 lbs. 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.

Do not apply within 7 days of harvest.

Cherries

Scales (including San Jose, parasitica, black, brown, apricot); Mite eggs (including European red mite, brown mite); Twig borers; Aphid eggs (including apple, black cherry, mealy plum); Mealybugs: Apply as a dormant spray 1 1/4 lbs. plus 3 gals. dormant oil or 1-1 1/2 gals. superior type oil per 100 gals. of water.

Eyespotted bud moth, Fruitree leafroller: Mix 1 lb. per 100 gals. of water. Apply in cover sprays as necessary. Beginning with petal fall.

Leafhoppers: Apply 1 lb. 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 fly: Mix 1/2-1 lb. per 100 gals. of water. Make 3 or 4 applications, beginning when adult flies begin to emerge and repeating at 10-day intervals.

Black cherry aphid: Mix 1 lb. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.

San Jose scale crawler: Mix 1 lb. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear.

Cherry rust mite: Mix 1/2-1 lb. per 100 gals. of water. Apply as a supplemental spray after harvest.

Do not apply within 10 days of harvest.

Cranberries

Blackheaded fireworm, *Rhopobota naevana*: Apply 4 lbs. in 400 gals. of water per acre.

Cranberry fruitworm: Apply 6 lbs. in 400 gals. of water per acre.

Do not apply within 7 days of harvest.

Figs

Vinegar fly (*Drosophila* spp.); Dried fruit beetle: Apply 1 lb. per 100 gals. of water. Do not apply within 5 days of harvest.

Filberts

Filbert leafroller, Aphids: Apply 2-4 lbs. in 250-400 gals. of water per acre, as a thorough cover spray.

Citrus Fruits (Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus Clien, Kumquats, and hybrids of these)

Citrus aphid, Cottonyushorn, scale crawlers, and Soft scale crawlers: Apply 1/2-1 lb. per 100 gals. of water (maximum 1000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.

Fruitree leafroller: Mix 1/2-1 lb. per 100 gals. of spray (maximum 1000 gals. per acre) when an average of 50 percent of eggs in egg masses have hatched in the spring.

Citrus thrip: Apply 1 lb. in 100 gals. of water (maximum 1000 gals. per acre) when thrips first appear.

Citrus snow scale: Apply 1-2 lbs. per 100 gals. of water (maximum 1000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunk, limbs, and twigs is essential.

Do not apply during bloom. Do not apply to citrus within 21 days of harvest.

Grapes

Pacific spider mite, Leafhoppers, Grape berry moth, Grape leafhopper: Mix 1 lb. per 100 gals. of water and apply as a thorough cover spray, or apply 2 lbs. per acre in sufficient water for thorough coverage. Do not apply within 10 days of harvest.

Drosophila spp.: Mix 6 oz. per 100 gals. of water and apply as a thorough cover spray, or apply a maximum of 18 oz. per acre in sufficient water for thorough coverage when insects first appear. Make additional applications at weekly intervals as necessary. Do not apply within 7 days of harvest. If a spreader-sticker is used, do not apply within 10 days of harvest.

Olive

Olive scale: Mix 1/2-1 lb. plus 1 1/2 gals. of light medium summer horticultural oil per 100 gals. of water. Apply as a cover spray in June or July.

Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.

Peaches and Nectarines

Scales (including San Jose, parasitica, black, brown, apricot); Mite eggs (including European red mite, brown mite); Twig borers; Aphid eggs (including apple, black cherry, mealy plum); Mealybugs: Apply as a dormant spray 1 lb. plus 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil per 100 gals. of water.

Peach twig borer, Parasitica scale: Mix 1 lb. plus 1 gal. of light medium summer horticultural oil per 100 gals. of water. Apply at petal fall.

Aphids, Brown mite (Clover mite), Twospotted spider mite, Olive scale crawlers, San Jose scale crawlers: Mix 1 lb. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.

Olive scale crawlers: Mix 1/2 lb. plus 1 1/2 gals. light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Oriental fruit moth: Mix 1 lb. 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 lb. per 100 gals. of water and apply to peaches in May and June.

Leafhoppers (Peaches only): Apply 1 lb. 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 postharvest spray apply 1 1/2-2 lbs. 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.

Pears

Scales (including San Jose, parasitica, black, brown, apricot); Mite eggs (including European red mite, brown mite, pearleaf blister mite); Twig borers; Aphid eggs (including apple, black cherry, mealy plum); Mealybugs: Apply as a dormant spray 1 lb. plus 2 gals. dormant oil or 1-1 1/2 gals. superior type oil per 100 gals. of water.

Pear psylla: Mix 1/2-1 lb. per 100 gals. of water. Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays if necessary.

Tentiform leafminer, Mealybug: Mix 1 lb. per 100 gals. of water. Apply in 3 cover sprays, beginning in April. Refer also to the Apples section.

Do not apply within 14 days of harvest.

Pecans

Aphids, Mites, Pecan nut casebearer, Walnut caterpillar: Apply 2-6 lbs. per acre as a foliage spray. Do not apply after husks crack.

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Pineapple

Pineapple scale: Apply 10 lbs. plus 2 gals. of light medium horticultural oil in 500 gals. of water per acre to the vegetative slips on the plant following harvest of the pineapple.

Pineapple mealybug: Apply 4 lbs. per acre. May be applied on day of harvest.

Pineapple forage and refuse may be fed to livestock 7 days following last application.

Plums and Prunes

Scalps (including San Jose, parlatana, black, brown, spotted); Mite eggs (including European red mite, brown mite, pearleaf blister mite); Twig borers; Aphid eggs (including apple, black cherry, mealy plum); Mealybugs: Apply as a dormant spray 1 lb. plus 2-3 gals. dormant oil or 1-1½ gals. superior type oil per 100 gals. of water. For late April or May applications, mix 1 lb. plus 1 gal. of light medium summer horticultural oil per 100 gals. of water.

Brown mite (Clover mite), European red mite: Apply 1 lb. in 100 gals. of water.

Leafcutter plum aphid, Mealy plum aphid, Thistle aphid: Apply ½-1 lb. per 100 gals. of water.

Vegetable Foliar Insects

DIMZ INCA 50 WP should always be applied as a spray in sufficient water to assure thorough coverage of the foliage.

Beans (Pole Beans, Snap Beans, Lima Beans)

Black bean aphid, Mexican bean beetle, Leafminers: Apply 1-1½ lbs. per acre.

Cucumber beetle: Apply ½-¾ lb. in 100 gals. 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 leafminer, Leafhoppers, Mites: Apply 1 lb. 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.

Broccoli, Cabbage, Cauliflower

Aphids, Diamondback moth, Imported cabbageworm, Dipterous leafminer: Apply ½-1 lb. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days, or to cabbage within 7 days, of harvest.

Brussels Sprouts

Aphids, Diamondback moth, Imported cabbageworm: Apply 1 lb. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to brussels sprouts within 7 days of harvest.

Carrots

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

Celery

Aphids, Flea beetles: Apply 1 lb. in 100 gals. of water per acre.

Dipterous leafminer: Apply ½-1 lb. per acre in sufficient water to achieve thorough coverage when infestations first appear. Repeat as necessary.

Do not apply within 10 days of harvest. Plants should be market trimmed (top removed) before being shipped or used. Tops should not be used for food or feed.

Collards, Kale, Swiss Chard, Turnip Tops

Aphids, Imported cabbageworm, Diamondback moth, Harlequin cabbage bug, Corn earworm: Apply ½-1 lb. per acre. Do not apply to collards, kale, or turnip tops within 10 days, or to swiss chard within 12 days, of harvest.

Cucumbers

Aphids, Serpentine leafminer, Thrips: Apply 1 lb. per acre. Do not apply within 7 days of harvest.

Do not apply within 10 days of harvest.

Strawberries

Aphids, Twospotted spider mite: Apply 1 lb. in 100 gals. of water per acre.

Cyclamen mite: Apply 2 lbs. in 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 cricket: Broadcast 2 lbs. per acre when insects are present. Apply 1-2 days before transplanting and mix into the top 1-2 inches of soil immediately.

Strawberry leafhopper: Mix ¼-1 lb. per 100 gals. of water. Apply 200 gals. spray per acre when blossoms show color.

Do not apply within 5 days of harvest.

Walnuts

Aphids, Mites: Apply 2 lbs. per acre as a foliage spray.

Codling moth, Scale crawlers, Walnut caterpillar: Apply 6 lbs. per acre.

Do not apply after the husks open.

Lettuce and Endive

Aphids, Dipterous leafminer: Apply ½-1 lb. 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 Squash)

Aphids, Leafhoppers, Mites: Apply 1-1½ lbs. per acre.

Serpentine leafminer, Thrips: Apply ½-1 lb. per acre.

Do not apply to melons or winter squash within 3 days, or to summer squash within 7 days, of harvest.

Mushroom Houses

Mushroom flies (Phorids and Sciardids): Mix 4-8 lbs. 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 lb. in 6 gals. of water and apply with a brush.

Do not treat compost.

Onions

Onion thrips: Apply 1 lb. per acre. Do not apply within 10 days of harvest.

Peas

Aphids, Leafminers: Apply ½-1 lb. 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 leafminer: Apply ½ lb. per acre. Do not apply within 5 days of harvest.

Potatoes

Aphids, Flea beetles, Colorado potato beetle, Dipterous leafminer: Apply ½-¾ lb. per acre.

Banded cucumber beetle, Leafhoppers, Southern armyworm: Apply ¾-1 lb. per acre.

Do not apply within 15 days of harvest.

Radishes, Parsnips, Turnips

Aphids, Flea beetles, Dipterous leafminer: Apply ½-1 lb. per acre. Do not apply within 10 days of harvest.

Spinach and Beets

Aphids, Dipterous leafminer: Apply ½-1 lb. 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.

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Sweet Corn
Corn earworm: Apply 2-2½ lbs. 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 Insects.

Tomatoes
Aphids, Destructive leafminer. Apply ½ lb. per acre. To control leafminers weekly applications are usually required.
Banded cucumber beetle, Fall armyworm, Southern armyworm: Apply ½-1 lb. per acre.

Vegetable Soil Insects

Diazinon 50 WP should always be applied as a spray in sufficient water to assure thorough coverage of the soil.

Carrot rust fly

Carrots: Apply 4 lbs. per acre as a drench to the seed furrow at planting time.

Cutworms (Surface and Subterranean)

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

Broadcast 4-8 lbs. per acre just prior to planting. Work into the soil immediately. 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Garden symphyla (Centipedes)

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

Broadcast 20 lbs. per acre just prior to planting. Work into soil 4-8 inches immediately. This preplant treatment will also control other soil insects: cutworms (surface and subterranean), mole crickets, root maggots, and wireworms.

Mole crickets

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

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

Onion maggots

Onions: Furrow Application. Apply 2 lbs. per acre in sufficient water to drench the seed furrow at planting time.

Field and Forage Insects

Diazinon 50 WP should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil, depending on the type of application.

Alfalfa, Clover and Trefoil

Banded alfalfa aphid, Yellow clover aphid, Pea aphid, Leafhoppers, Plant bug nymphs, Mites. Apply ½-1 lb. per acre.

Grasshoppers: Apply 1 lb. per acre.

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into the soil immediately. 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay provided alfalfa or clover is not cut for hay for 7 days following treatment.

Alfalfa weevil larvae: For control in the spring, apply 2-3 lbs. per acre when feeding damage to growing tips becomes evident. Repeat application, if necessary. If damage is already extensive, cut the hay and

Vinegar fly (*Drosophila* spp.): Apply ½-1½ lbs. per acre. Weekly applications are usually required.

Do not apply within 1 day of harvest.

Watercress (Hawaii only)

Cyclanone imit: Apply 1 lb. in 100 gals. of water per acre. Direct spray to 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.

Broadcast Application: Broadcast 4-8 lbs. per acre just prior to planting. Work into soil 3-4 inches immediately.

Root maggots

Broccoli, Brussels sprouts, Cabbage, and Cauliflower (1) Broadcast Application: Broadcast 4-8 lbs. per acre and immediately work into the soil 3-4 inches before seeding, either in the seedbed or in the field or before transplanting. (2) Transplant Water (Drench) Application: Mix ½-¾ lb. 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.

Radishes: Mix 2 lbs. in 50 gals. of water. Apply 80-100 gals. per acre. (1-1½ gals. per 1000 linear feet of row) in the seed furrow at planting time.

Wireworms

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

Broadcast 6-8 lbs. per acre prior to planting, and work into soil 4-8 inches immediately.

Potatoes: Broadcast 6-12 lbs. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

Southern potato wireworm

Potatoes (Southeastern U.S.): For potatoes on mineral soils: Broadcast 4-8 lbs. per acre prior to planting and immediately work into soil 3-6 inches depending on location of wireworms.

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 except as indicated below under Livestock Insects, with either air or ground equipment.

Do not treat during bloom to avoid injury to pollinating insects.

Corn

Corn rootworm larvae—
(Postemergence Basal Treatment)

Apply 1½-2½ oz. per 1000 linear feet of corn row in sufficient water to wet base of corn plant and a narrow band of soil next to the plant. Refer to row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at V₁—at sign of corn rootworm larvae. Application should not be made later than June 24 in the Middle Corn Belt or July in the Northern Corn Belt.

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**SUGGESTED RATES ACCORDING TO ROW
SPACING FOR CORN ROOTWORM
LARVAE CONTROL**

Spacing	Linear Feet of Corn Row/Acre	Amount of DDT ZINCH 50 WP Per Acre
48"	10,890	14-28 oz.
42"	12,455	15 1/2-31 oz.
40"	13,068	16-32 oz.
36"	13,939	(1-2 lbs.)
30"	14,250	17 1/2-35 oz.
30"	17,424	18-36 oz.
24"	21,700	(1 1/2-2 1/4 lbs.)
20"	26,136	27 1/2-55 oz.
20"		32-64 oz.
15"	34,840	(2-4 lbs.)
15"		44-88 oz.

Note: For row spacings not listed, calculate the appropriate dosage rates based on the 40-inch row figures.

Seedcorn maggot: Broadcast 4-8 lbs. per acre just prior to planting. Work into 2 inches of soil immediately.

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into 1-2 inches of soil immediately. Do not apply later than lay-by. For subterranean cutworms, apply just prior to planting and work into 3-6 inches of soil immediately.

Wireworms: Apply 6-8 lbs. per acre prior to planting and work into 4-8 inches of soil immediately.

Corn leaf aphid: Apply 1-2 lbs. per acre in sufficient water to provide complete coverage of the upper portions of plants. Repeat application as necessary.

Grasshoppers: Apply 1 lb. per acre.

Sap beetle: Apply 2-2 1/2 lbs. per acre. Add 1-2 gals. 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.

Cotton

Spider mites, Aphids, Leafhoppers, Lygus bug, Cotton leafworm, Cotton leafperforator: Apply 1-2 lbs. 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 wastes to livestock.

Compses

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil for surface cutworms, 3-6 inches for subterranean cutworms.

Hops

Aphids, Mites: Apply 2 lbs. per acre. Do not apply within 14 days of harvest.

Lespedeza

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

Soybeans

Cutworms: Apply 4 lbs. per acre in a 12-inch band over the row. Use sufficient water to achieve thorough coverage. Begin application when small larvae appear.

Rango, Pasture, and Grassland Insects

Bermudagrass

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

Rangeland, Pasture, Grass Forage, Ditch Banks, Road-sides, Wetland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply 1/2-1 lb. per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Two or three additional applications at 3-week intervals may be necessary. Do not apply within 21 days of peanut harvest.

Note: 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

Sorghum midge: Apply 1/2-1 lb. per acre when 90% of the heads have emerged from the boot. Repeat application within 4 days.

Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

Soybeans

Cutworms (Surface and Subterranean): Broadcast 4-8 lbs. per acre just prior to planting. Work into 2-3 inches of soil immediately for surface cutworms, 3-6 inches for subterranean cutworms.

Sugar Beets

Root leafhopper, Dipterous leafminer, Aphids: Apply 1/2-1 lb. per acre.

Grasshoppers: Apply 1 lb. per acre.

Wireworms: Broadcast 6-8 lbs. per acre just prior to planting, and work into 4-8 inches of soil immediately. Tops may be fed to beef and dairy animals.

Sugarcane

Aphids: Apply 1/2-1 lb. per acre.

Note: Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

Wireworms: Apply 8 lbs. per acre on a 12-inch band centered over the furrow in sufficient water to obtain thorough coverage. Make application directly to seed pieces in open furrow at covering time.

Tobacco

Aphids, Flea beetles: Apply 1/2-3/4 lb. per acre. Do not apply within 3 days of harvest.

Cutworms: Broadcast 4-8 lbs. per acre before transplanting and work into 2-4 inches of soil immediately.

Green June beetle larvae: Mix 1/2 lb. 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 cricket: Broadcast 2 lbs. per acre, when insects are present. Make application to beds or fields 1-2 days prior to sowing seed or transplanting, and work into 1-2 inches of soil immediately.

Seedcorn maggot: Broadcast Application: Broadcast 3 lbs. per acre, 3-4 weeks before transplanting. Work into 2 inches of soil immediately.

Transplant Water Application: Mix 1 1/2-3 oz. in 50 gals. of transplant water.

Wireworms: Broadcast Application: Broadcast 4-6 lbs. per acre, 3-4 weeks before transplanting. Work into 6-8 inches of soil immediately.

Transplant Water Application: Mix 1 1/2-3 oz. in 50 gals. of transplant water.

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 except as indicated below under Livestock Insects. Do not repeat application for 30 days.

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Sheep "Ticks" (Keds), Lice

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

Ornamental insects

Insects	Amount of Disinfectant	
	per 3 gals. water	per 100 gals. water
Aphids, Dayworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Oblique root weevils, Onion voracious leafhoppers, Privet mites, Scale crawlers (Cottony cushion, Lecanium, Pine needle, San Jose, Soft scale), Thrips, Tussocked mites, Webworms, Whiteflies	1/2 oz	1 lb.

Insects	Amount of Dil to Use	
	per 3 gals. water	per 100 gals. water
Apple-and-thorn skeletonizers, Colorado potato weevils, Fall webworms, Hognose chermes, Oak leafers, Obliquebanded leafrollers, Pear slips, Tent caterpillars	1 1/2 oz.	3 lbs.

Mimosa webworm: Mix ½ oz. in 3 gals. of water (or 1 lb. 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.

Low Insects

Insects	(Rate/1000 sq ft)	Remarks
	1 lb 1000 sq ft 1000 sq ft 1 lb	
Lawn chinch bugs	2-3 oz or 3-6 oz	Use higher rate for longer seed, or in lawns of 1/2 to 1 month such as 2/3 Augusting lawns.
Ants Armyworms Closer moths Springtails (Columbids) Crickets cut worms Drum wasps Earthworms Fat flies Lawn billbugs Sod worms (Lawn moths) bombays	4 oz	Use 1/2 lb. and hills or 1/2 lb. ground nest of 1/2 lbs For lawn billbugs irrigate the lawn thoroughly immediately after treatment. For fat flies, moss grass and water well before treatment, but delay application until grass is dry. Use 1/2 of water again when necessary.

Remarks	
Do not apply to animals	
For brown dog ticks, spray grass and under shrubbery particularly near house.	
Apply when crawlers first emerge	

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

Dust Formulations Based on 2-2-n diameter 50W

information regarding proper diluents and suggested formulas

Seed Treatment-Planter-Box Treatment

Planter-Box Mixing Instructions. Stir seed slightly using a mixing stick. Additional mixing will result from the operation of the planter. **DO NOT MIX WITH BARE HANDS.**

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Note: If seed has not been treated with a fungicide, use Caplan or Thiram in combination with Dithiopyr. Sprinkle rates indicated on fungicide package. Failure to use a fungicide with Dithiopyr may result in injury to the seed. If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, $\frac{1}{2}$ oz.

of graphite per bushel of seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed.

Caution: Dithiopyr treated grain cannot be used for feed for livestock, or for the preparation of products for human consumption.

Fly Control

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses).

Residual Sprays: Remove animals from buildings prior to treatment and keep animals out for at least four hours. Mix 2 lbs. of Dithiopyr in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, feeding sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of run-off. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

Bait Sprays: Mix the appropriate amount of Dithiopyr with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix $\frac{1}{2}$ lb. with the sugar in 2 $\frac{1}{2}$ gals. of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For sprinkling can application, mix 2 oz. with the sugar in 6 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">EPA REGISTRATION NO.</td> <td style="width: 50%; padding: 2px;">DATE OF ISSUANCE</td> </tr> <tr> <td style="height: 20px;"></td> <td style="text-align: center; padding: 2px;">OCT 7 1983</td> </tr> <tr> <td colspan="2" style="padding: 2px;">TERM OF ISSUANCE</td> </tr> <tr> <td colspan="2" style="padding: 2px;">NAME OF PESTICIDE PRODUCT</td> </tr> </table>	EPA REGISTRATION NO.	DATE OF ISSUANCE		OCT 7 1983	TERM OF ISSUANCE		NAME OF PESTICIDE PRODUCT	
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NOTICE OF PESTICIDE: ☐ REGISTRATION ☒ REREGISTRATION

(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

161
18

105207
1

Stew
7/6/83

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE