

AND FORAGE SOIL INSECTS CONTINUED
Surface and Subterranean—Broadcast 2.4 qts. per acre just prior to planting. Work into soil 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.
Surface and Subterranean—Broadcast 2.4 qts. per acre just prior to planting. Work into soil 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.
 Broadcast 3.4 qts. per acre in a 12 inch band over the row. Thorough coverage of application when small larvae appear. Two or three additional applications may be necessary. Do not apply within 21 days of peanut harvest. Live adults (2) may be fed peanut forage 7 days following treatment and (3) following treatment.

Surface and Subterranean—Broadcast 2.4 qts. per acre just prior to planting. Work into soil 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.
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 Broadcast 3.4 qts. per acre just prior to planting, and work into soil 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.
 Apply 1 gal. per acre in a 12 inch band centered over the furrow. Make application in open furrows at covering time.

Broadcast 2.3 qts. per acre before transplanting and work into the soil 2.4 inches for surface cutworms, 3.6 inches for subterranean cutworms.
Surface and Subterranean—Broadcast 2.4 qts. per acre just prior to planting. Work into soil 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.
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 Apply 1 gal. per acre in a 12 inch band centered over the furrow. Make application in open furrows at covering time.

PASTURE, AND GRASSLAND INSECTS
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, AND BARRIER STRIPS
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

ORNAMENTAL INSECT CONTROL
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

Insects	Rate per 3 gals. water	Rate per 100 gals. water
Spider Mites, Carnation Shoot Mites, Clover Root Mites, European Pine Shoot Mites, Holly Bud Moths, Leafhoppers, Pear Leaf Mites, Strawberry Mites, Scale Insects, Pine Needle, San Jose, Soft Scale, Webworms, Whiteflies	1/2 fl. oz. *	1 pt. *
Cottony Webworms, Fall Webworms, Oblique-banded Leaf Rollers,	1 1/2 fl. oz.	3 pts

Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

LAWN INSECT CONTROL
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

Rate/1,000 SQ. FT.	WATER	REMARKS
1/2 oz. or 1 fl. oz.	25 gals. *	Use higher rate for longer residual control and in lawns of dense growth (St. Augustine lawns)
3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For lawn billbugs, irrigate the lawn thoroughly immediately after treatment. For fire flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary.
3 oz.	3 gals.	Do not apply to animals. For Brown Dog Ticks spray grass and under shrubbery, particularly near house.
3 oz.	3 gals.	Apply when crawlers first emerge.
3 oz.	25 gals. *	Apply when crawlers first emerge.

Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

FOREST INSECTS
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

NOTICE OF WARRANTY
 Application should always be applied as a spray in a minimum of 1 gal. of water per acre and a minimum of 5 gals. of water per acre for ground applications.
GRASSES (Other than Range and Pasture Grasses)—Thrips, Whiteflies, per acre. Dairy and beef cattle, and sheep (1) may be grazed immediately following cutting, and (3) forage may be fed green forage immediately following cutting, and (3) forage may be fed following treatment.

Hopkins

DIAZINON® 4lb. E.C.

FOR CONTROL OF CERTAIN INSECTS ON FRUITS, NUTS, VEGETABLES, FIELD CROPS, AND ORNAMENTALS.

REFER TO LABEL DIRECTIONS FOR SPECIFIC PESTS.

ACTIVE INGREDIENTS:
 O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 48.0%
 Xylene 39.0%
INERT INGREDIENTS: 13.0%
TOTAL 100.0%

®Trademark CIBA-GEIGY
 EPA Reg. No. 2393-258
 EPA Est. 2393-WI-1

WARNING

KEEP OUT OF REACH OF CHILDREN

MAY BE FATAL IF SWALLOWED. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid contamination of food. Do not use on humans or permit children to go on to sprayed grass until spray has completely dried.

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

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from areas treated or where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of waste. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. 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 Cooperative Agricultural Extension Service.

Do not reuse empty container. Destroy by perforation or crushing and burying in a safe place.

CAUTION: INFLAMMABLE MIXTURE
 Do not use, pour, spill or store near heat or open flame.

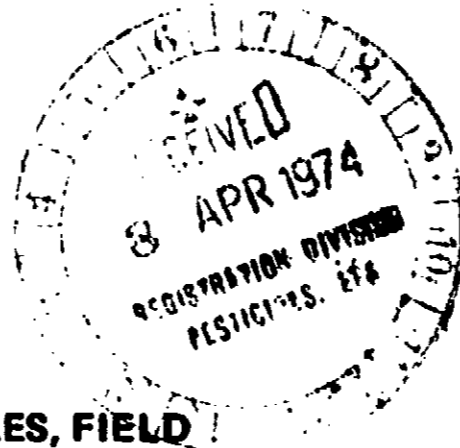
NET CONTENTS **GALLONS**

DIRECTIONS FOR USE
IMPORTANT: Read the entire Directions for Use before using this product.

HOPKINS AGRICULTURAL CHEMICAL CO.

MADISON, WISCONSIN 53701

HACCO 3-74



VEGETABLE SOIL INSECTS CONTINUED
GARDEN SYMPHYLANS (CENTIPEDES)—Broadcast 10 qts. per acre just prior to planting. Work into soil 4.8 inches immediately. This proplant treatment will also control other soil insects such as cutworms (surface and subterranean), mole crickets, root maggots, and wireworms.
 Cabbage, Corn, Peas, Radishes, Snap Beans, Turnips
 Carrots, Lettuce, Pole Beans, Red Beets, Tomatoes

MOLE CRICKETS—Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1-2 days prior to sowing of seed or transplanting and work into soil 1.2 inches immediately.
 Broccoli, Cabbage, Collards, Kale, Mustard, Radishes, Turnips
 Brussels Sprouts, Cauliflower, Endive (escarole), Lettuce, Peppers, Tomatoes

ONION MAGGOTS—Onions—Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time. Broadcast Application: Broadcast 2.4 qts. per acre just prior to planting. Work into soil 3.4 inches immediately.

ROOT MAGGOTS—Broccoli, Brussels Sprouts, Cabbage, and Cauliflower—Broadcast Application: Broadcast 2.3 qts. per acre and immediately work into the soil 3.4 inches, before seeding, either in the seedbed or in the field, or before transplanting. Transplant Water (Drench) Application: Mix 1/2 pt. in 50 gals. of transplant water, when 200-300 gals. of water are used per acre. May be applied at the rate of 1/2-1 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 1 qt. in 50 gals. of water. Apply 80-100 gals. per acre (1.1-1.1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time.

WIREWORMS—Broadcast 3-4 qts. per acre prior to planting, and work into soil 4.8 inches immediately.
 Broccoli, Cauliflower, Kale, Parsley, Spinach, Swiss Chard
 Brussels Sprouts, Celery, Lettuce, Peas, Summer Squash, Tomatoes
 Cabbage, Collards, Lima Beans, Peppers, Sweet Potatoes, Watermelons
 Cantaloupes, Cucumbers, Muskmelons, Potatoes, Sweet Corn, Winter Squash
 Carrots, Endive (escarole), Onions, Snap Beans

POTATOES—Wireworms: Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4.8 inches.

SOUTHERN POTATO WIREWORMS—Potatoes (Southeastern U.S.): For potatoes on mineral soils, broadcast 2.4 qts. per acre prior to planting, and immediately work into soil 3.6 inches depending on location of wireworms.

FIELD AND FORAGE FOLIAR INSECTS
 Unless otherwise stated, foliar applications of Diazinon should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

ALFALFA AND CLOVER—Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply 1/2-1 pt. per acre. Grasshoppers: Apply 1 pt. per acre. Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following 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 pts. per acre when feeding damage to growing tips becomes evident. Repeat application, if necessary. If damage is already extensive, cut the hay and make application to the stock. Do not graze dairy and beef animals or sheep for 2 days. Do not cut for hay for 10 days following treatment. Do not spray livestock directly with either air or ground equipment. Do not treat during bloom to avoid injury to pollinating insects. CLOVER—Striped Ground Crickets: Broadcast 1-2 pts. per acre following seeding in the fall but prior to clover emergence.

CORN—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Corn Rootworm Adults: Apply 1/2-1 pt. per acre. Corn Leaf Aphids: Apply 1-2 pts. per acre. Complete coverage of the upper portions of the plants is essential. Repeat applications as necessary. Mites: Apply 1 pt. per acre when infestations first appear. Repeat applications as necessary. Grasshoppers: Apply 1 pt. per acre. Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1.2 gals. of soluble mineral oil per acre to the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for proper timing of sprays. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

COTTON—Spider Mites, Aphids, Leafhoppers, Lygus, Cotton Leafworms, Cotton Leaf Perforators: Apply 1-2 pts. in 5-25 gals. of water per acre. Repeat as infestation warrants. Do not apply within 14 days of harvest. Do not graze treated cotton plants, or feed gin waste to livestock.

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

SORGHUM—Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications. Sorghum Midges: Apply 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 days. Mites: Apply 1 pt. per acre when infestation first appears and repeat applications as necessary. Greenbug: Apply at the rates indicated below when infestation first appears and repeat as necessary. Texas and Oklahoma—Apply 1/2-1 pt. per acre. All Other areas—Apply 1 pt. per acre. Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

SUGAR BEETS—Beet leafhoppers, Dipterous Leaf Miners, Aphids: Apply 1/2-1 pt. per acre. Grasshoppers: Apply 1 pt. per acre. NOTE: Tops may be fed to beef and dairy animals.

SUGARCANE—Aphids: Apply 1/2-1 pt. per acre. Allow 1 day between last applications and harvest. Bagasse and forage may be fed to livestock.

TOBACCO—Aphids, Flea Beetles: Apply 1/2-1 pt. per acre. Do not apply within 3 days of harvest. Grasshoppers: Apply 1 pt. per acre. Do not apply within 14 days of harvest.

FIELD AND FORAGE SOIL INSECTS
 Unless otherwise stated, soil applications of Diazinon should always be applied to field and forage crops as a spray in a minimum of 5 gals. of water per acre for ground application.

ALFALFA AND CLOVER—Cutworms (Surface and Subterranean): Broadcast 2.4 qts. per acre just prior to planting. Work into the soil immediately 2.3 inches for surface cutworms, 3.6 inches for subterranean cutworms.

CORN—Corn Rootworm Larvae: Band application at Planting Time: Apply 1.2 qts. per acre. Make application in the seed furrow or apply 2 1/2 oz. per 1,000 linear feet of corn row in a 4 1/2 inch band directly behind the planter shoe. For band treatment refer to the row spacing chart for amounts recommended per acre.

SUGGESTED RATES ACCORDING TO ROW SPACING FOR CORN ROOTWORM LARVAE CONTROL

Row spacing	Linear feet of Corn row/acre	Rate per acre planting time application	Post emergence basal treatment	Row spacing	Linear feet of Corn row/acre	Rate per acre planting time application	Post emergence basal treatment
48"	10,890	28.56 oz	14.28 oz	30"	17,424	44.88 oz	22.44 oz
42"	12,455	31.62 oz	15.81 oz	24"	21,780	55.11 oz	27.55 oz
40"	13,068	32.64 oz	16.32 oz	20"	26,136	64.28 oz	32.64 oz
		11.7 qts	11.7 qt			11.2 qts	11.2 qts
38"	13,939	35.70 oz	17.85 oz	15"	34,848	88.17 oz	44.88 oz
36"	14,250	36.72 oz	18.36 oz				

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

Postemergence Basal Treatment—Apply 1 1/2 oz. per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the row spacing chart for amounts recommended per acre. Cover treated band with 2.3 inches of soil using a disk harrow or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae but not later than June 24 in the Middle Corn Belt, or July 1 in the Northern Corn Belt. Seed Corn Maggots: Broadcast 2.4 qts. per acre just prior to planting. Work into soil 2 inches immediately. Cutworms (Surface and Subterranean): Broadcast 2.4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into soil 1.2 inches immediately. Do not apply later than July 1. For Subterranean cutworms apply just prior to planting and work into soil 3.6 inches immediately. Wireworms: Apply 3.4 qts. per acre prior to planting and work into the soil 4.8 inches immediately. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

(Continued on Left Side Panel)

WARNING

MAY BE FATAL IF SWALLOWED. May be absorbed through skin. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid contamination of feed and foodstuffs. Keep out of reach of domestic animals. Do not use on livestock, household pets or humans.

Toxic to fish and wildlife. Do not contaminate any body of water by cleaning of equipment or disposal of wastes and containers. Treated seed exposed to soil surfaces will be hazardous to birds and wildlife. Keep out of lakes, streams or ponds. Apply this product only as specified on this label.

Treated seed should be labeled as follows:

TREATED SEED – DO NOT USE FOR FOOD, FEED OR OIL.

When container is empty, immediately destroy. NEVER REUSE.

PRODUCT INFORMATION

HOPKINS DIAZINON-CAPTAN-MOLY SEED PROTECTANT is especially formulated for planter box treatment of soybean seed. This product gives temporary protection of germinating seed and seedlings of soybeans from injury by seed corn maggots and seed corn beetles. It protects sound and/or mechanically injured seed against seed and soil-borne diseases such as seedling blights, damping-off and seed decay organisms at planting time. It provides essential molybdenum for plant growth where soils have been found to be deficient in available molybdenum. Molybdenum helps the nodule bacteria and plants make more efficient use of nitrogen. Soybeans are most likely to benefit from treatment with this product when planted in acidic soil (soil needing liming), heavily leached soils, or soils high in iron content.

It is prepared for use directly in the planter box, thereby enabling the grower to avoid the additional handling of commercial seed treatment, thus lowering the percent of cracked or split seed planted.

Hopkins

**diazinon® - captan-moly
seed protectant**

**FOR PLANTER BOX USE ON SOYBEANS
Contains Graphite (non-oily lubricant)**

1 OUNCE MEASURING CUP ENCLOSED

ACTIVE INGREDIENTS:

O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	25.0%
Captan (n-[(trichloromethyl)thio] 4-cyclohexene-1,2-dicarboximide)	16.0%
INERT INGREDIENTS:	59.0%
	100.0%

Contains the equivalent of 3.2% Molybdenum from sodium molybdate.

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EPA Reg. No. 2393-263-AA

EPA Est. No. 2393-WI-1

WARNING

KEEP OUT OR REACH OF CHILDREN

See side panels for complete use instructions, and notice of warranty.

NET WEIGHT

POUNDS

Manufactured By

Hopkins Agricultural Chemical Co.

Madison, Wisconsin 53701

ACCEPTED
FEB 29 1976
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for use pesticide registered under EPA Reg. No. 2393-263

A non-oily lubricant has also been added to help prevent cracking and splitting of the seed in the planter box so they will flow easily and evenly.

This material provides adequate coverage of seed and any excess flows with the seed into the furrow, giving additional protection against soil-borne diseases.

DIRECTIONS FOR USE

Use **HOPKINS DIAZINON-CAPTAN-MOLY SEED PROTECTANT** as a planter box treatment at the rate of 6 ounces (6 heaping scoops) on the amount of seed that will be planted per acre (1 bushel per acre) so that the needed 1/2 ounce of Sodium Molybdate per acre will be applied. **DO NOT OVERTREAT.** Apply to seed as planter box is being filled. Stir with paddle or lath so that each seed is coated with seed protectant. **DO NOT USE BARE HANDS.**

HOPKINS DIAZINON-CAPTAN-MOLY SEED PROTECTANT may be applied over an approved fungicidal seed treatment.

Under some circumstances **HOPKINS DIAZINON-CAPTAN-MOLY SEED PROTECTANT** may affect the rate of seeding. It is necessary for the user to check planting rate frequently to assure himself that the desired planting rate is being obtained.

For further information consult the State Agricultural Experiment Station or the State Agricultural Extension Service.

NOTICE OF WARRANTY

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.