

19713-95

06/05/1987

1/13

JUN - 5 1987

Ms. Carol Campbell
Drexel Chemical Company
P.O. Box 9306
Memphis, TN 38109

Dear Ms. Campbell:

SUBJECT: Amendments - Delete golf course and sod farm use,
expand Environmental Hazards text, lower lawn rates
Drexel D-264 14G Diazinon Granular Insecticide
EPA Reg. No. 19713-95
Your submission dated November 7, 1986

On October 1, 1986, EPA published in the Federal Register a Notice of Intent to Cancel the registration of pesticide products containing diazinon registered for use on golf courses and sod farms (51 FR 35034). The Environmental Protection Agency has determined that you have complied with the requirements of that Notice for the subject product by submitting amended labeling deleting the use on golf courses and sod farms by addition of the label statement "This product must not be used on golf courses or sod farms".

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A stamped copy of the amended label is enclosed for your records. Please submit five (5) copies of the final printed amended label prior to release for shipment.

As indicated in the Notice of Amendment to Notice of Intent to Cancel, any product released for shipment by the registrant after April 30, 1987 must bear the amended labeling. Any product sold or distributed by retailers or other persons after November 30, 1987, must bear the amended labeling.

It is noted that the submitted label does not include the spreader setting chart for lawn applications as requested by the Agency's letter dated February 7, 1984. Samples labels showing such charts had been forwarded to you on March 28, 1985, in response to your requests dated November 13, 1984 and March 15, 1985. It is also noted that you have

deleted "Only for sale to, use and storage by servicepersons (including farmers, commercial pesticide applicators, and turf maintenance personnel)" from the top of the label. Presumably, such wording was in lieu of use of child resistant packaging for this product. Have you submitted a child resistant packaging certification for this product? If so, please submit a copy of that document so that it can be added to the product file. If not, please submit such certification at this time, or an appropriate justification as to why this product is not subject to the special packaging requirements (products containing over 7% diazinon are usually subject). Why did you revise the Note to Physician? That which appeared on the labeling accepted February 7, 1984, was appropriate to this granular product, while the new Note appears to be for an emulsifiable concentrate ("petroleum based solvent" and "gastric lavage"). The new Note also implies that either antidote is appropriate, but 2-PAM should not be used separately, but only in conjunction with atropine if indicated.

Sincerely yours,

George T. LaRocca
 Product Manager (15)
 Insecticide-Rodenticide Branch
 Registration Division



D-264 14G
DIAZINON GRANULAR INSECTICIDE

JUN - 5 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

19713-95

For control of certain soil insects including wireworms, cutworms and other
crop pests as listed.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS

ACTIVE INGREDIENT:

Diazinon [O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl)
phosphorothioate].....

14.0%

INERT INGREDIENTS:.....

86.0%

TOTAL.....100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. DO NOT INDUCE VOMITING UNLESS
NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia.
If it is necessary to induce vomiting, give victim one or two glasses of
water and insert finger in back of throat. 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 and apply artificial respiration
if indicated.

IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly.

IF ON EYES: Rinse eyes with plenty of water and call a physician
immediately.

NOTE TO PHYSICIAN: Gastric lavage is indicated. Contains a petroleum-
based solvent which presents aspiration hazard. Atropine sulfate and 2-PAM
are specific antidotes

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 19713-95
EPA Est. No. 19713-MS-1

Net Contents:



Manufactured by:
Drexel Chemical Company
P.O. Box 9306, Memphis, Tenn. 38109-0306

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. May be absorbed through skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before eating or smoking. Do not permit children or pets to go into treated areas until area has completely dried. Do not use on humans.

Keep out of reach of domestic animals. Do not contaminate feed or use on household pests or livestock.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish, and wildlife including waterfowl. Birds and water fowl feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, as rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Where irrigation (watering) is recommended apply a minimum of 0.25 inch of water immediately after application. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries (except for effluence from treated watercress beds). Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Apply this product only as specified on this label.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

Directions For Use

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

Applications to the soil should be worked into the top few inches immediately after application with a rotary hoe, cultivator, disk, harrow, or other suitable means for greatest effectiveness.

Field and Forage Insects

Beans (Pinto)

Lesser Cornstalk Borers: Apply 7 - 14 lbs. per acre in a 6-inch band centered over the row when beans are $\frac{1}{2}$ -1 inch high.

Corn

Corn Rootworm Larvae: (Postemergence Basal Treatment)

Apply $4\frac{1}{2}$ - $8\frac{1}{2}$ oz. per 1,000 linear feet of row in a band over the row at first sign of rootworms, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt. Cover treated band with 2-3 inches of soil.

Apply amount per acre recommended according to row spacing chart for basal treatment.

Lesser Cornstalk Borers: Apply $8\frac{1}{2}$ - 17 oz. per 1,000 linear feet of row in a 10-inch band centered over the row. Make application at planting time or when crop begins to emerge. Cover the treated band with 1 - 2 inches of soil.

Apply amount per acre recommended according to row spacing chart for basal treatment.

Suggested Rates According to Corn Row Spacing

Row spacing	Linear feet of corn row per acre	Amount of D-264 14G Granular Insecticide per acre Postemergence basal treatment
48"	10,890	3 - 6 lbs.
42"	12,455	$3\frac{1}{2}$ - $6\frac{1}{2}$ lbs.
40"	13,068	$3\frac{1}{2}$ - 7 lbs.
38"	13,939	$3\frac{3}{4}$ - $7\frac{1}{2}$ lbs.
36"	14,520	4 - 8 lbs.
30"	17,424	$4\frac{3}{4}$ - $9\frac{1}{2}$ lbs.
24"	21,780	$5\frac{3}{4}$ - $11\frac{1}{2}$ lbs.
20"	26,136	7 - 14 lbs.
15"	34,848	$9\frac{1}{2}$ - $18\frac{1}{2}$ lbs.

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

European Corn Borers: Apply 7 - 14 lbs. per acre over the corn so granules fall into whorls, when 75% of plants show first-generation borers feeding. Make a second application 7 days later if needed. To control second-generation corn borers, apply 7 - 14 lbs. per acre, as above, when field count shows 100 egg masses per 100 plants.

D-264 14G, Granular Insecticide may be applied by aircraft for the above use. This material should be uniformly applied to the area to be treated at the recommended rates given above.

Fall Armyworms: Apply 7 - 14 lbs. per acre over the corn so granules fall into whorls when armyworms first appear. Repeat application if necessary.

Southwestern Corn Borers: Apply 7 - 14 lbs. per acre over the corn so granules fall into whorls when second-generation borers first appear. Repeat application one week later.

Note: Do not feed treated fodder to dairy or beef cattle or sheep for 10 days following application. Corn may be picked immediately. Temporary spotting of foliage sometimes occurs following application.

Cutworms: Broadcast 14 - 28 lbs. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into soil 1 - 2 inches. Do not apply after layby. For subterranean cutworms apply just prior to planting and work into soil 3 - 6 inches.

Seed Corn Maggots: Broadcast 14 - 28 lbs. per acre just prior to planting. Work into soil 2 inches.

Garden Symphylans (Centipedes): Broadcast 70 lbs. per acre just prior to planting and work into soil 4 - 8 inches. This preplant treatment will also control other soil insects such as cutworms (surface and subterranean) and wireworms.

Wireworms: Broadcast 21 - 28 lbs. per acre before planting. Work into soil 4 - 6 inches.

Peanuts

Southern Corn Rootworms: Broadcast 28 lbs. per acre or the equivalent in a band over the fruiting zone, just prior to pegging. Work into top few inches of soil.

Cutworms: Apply 14 lbs. per acre in a 12-inch band over the row when cutworms first appear. Up to three additional applications at three-week intervals may be necessary. Do not apply within 21 days of peanut harvest.

Lesser Cornstalk Borers: Apply 14 - 21 lbs. per acre in a band over the fruiting zone just prior to pegging. Cover the band with 1 - 2 inches of soil.

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

Cutworms: Broadcast 14 - 28 lbs. per acre just prior to planting. Work into soil 2 - 3 inches to control surface cutworms; 3 - 6 inches to control subterranean cutworms.

Lesser Cornstalk Borers: Apply 7 - 14 lbs. per acre in a 10-inch band over the row at planting time or as crop emerges. Cover the band with 1 - 2 inches of soil

Note: Do not apply directly to the seed furrow as reduction of sorghum seed germination may occur.

Soybeans

Cutworms: Broadcast 14 - 28 lbs. per acre just prior to planting. Work into soil 2 - 3 inches to control surface cutworms; 3 - 6 inches to control subterranean cutworms.

Lesser Cornstalk Borers: Apply 7 - 14 lbs. per acre in a 6-inch band over the row just prior to planting or when soybeans are 1 - 2 inches high. Cover the band with 1 - 2 inches of soil.

Sugar Beets

Sugar Beet Root Maggots: Apply 7 - 14 lbs. per acre in a 5 - 7 inch band (based on row width of 22 in.) or 4.7 - 9.4 oz. per 1,000 linear feet of row in a 5 - 7 inch band either incorporated 2 - 3 inches at planting or applied above the seed after the seed is covered. Apply ahead of the press wheel. If a heavy maggot infestation is anticipated or a wet spring occurs, a second application may be made, early postemergence, when the adult maggots (flies) first start to appear. If a second application is necessary, apply 7 - 10½ lbs. per acre in a 5 - 7 inch band (based on row width of 22 in.) or 4.7 - 7.1 oz. per 1,000 linear feet of row in a 5 - 7 inch band directly over the row.

Note: D-264 14G, Granular Insecticide should not come in direct contact with the seed or injury will occur.

Wireworms: Broadcast 21 - 28 lbs. per acre just prior to planting. Work into soil 4 - 8 inches.

Sugarcane

Sugarcane Borers: Broadcast 10½ - 17½ lbs. per acre after joints have begun to form and when at least 5% of plants show borers feeding in or under the leaf sheath, but which have not bored into the stalks. Additional applications may be necessary to assure continuing control.

Note: Do not make more than four applications per growing season. Allow 28 days between last application and harvest. At that time bagasse and forage may be fed to livestock.

Wireworms: Apply 42 lbs. per acre in a 12-inch band over the open furrow, directly to seed peices.

Tobacco

Cutworms: Broadcast 14 - 21 lbs. per acre before transplanting. Work into soil 2 - 4 inches.

Mole Crickets: Apply 7 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.

Seed Corn Maggots: Broadcast 10½ lbs. per acre 3 - 4 weeks before transplanting. Work into soil 2 inches.

Wireworms: Broadcast 14 - 21 lbs. per acre 3 - 4 weeks before transplanting. Work into soil 6 - 9 inches.

Forage Crops (Alfalfa, Clover, Cowpeas, and Lespedeza)

Cutworms: Broadcast 14 - 28 lbs. per acre just prior to planting. Work into soil 2 - 3 inches to control surface cutworms, 3 - 6 inches to control subterranean cutworms.

Vegetable Crop Insects

Broccoli, Brussels Sprouts, Cabbage, and Cauliflower

Root Maggots: Broadcast 14 - 21 lbs. per acre before planting or transplanting. Work into soil 3 - 4 inches.

Onions

Onion Maggots: Apply 14-28 lbs. per acre as a broadcast soil treatment just prior to planting. Thoroughly mix the chemical into the top 3 - 4 inches of soil by disking, harrowing, or other suitable means.

Radishes

Root Maggots: Apply 10½ - 14 lbs. per acre (2½ - 2 4/5 oz. per 1,000 linear feet of row) in the seed furrow at planting time.

Sweet Corn

See Corn under Field and Forage insects.

Tomatoes

Vinegar Flies (*Drosophila* spp.): Broadcast 7 lbs. per acre when flies first appear. Repeat in 7 - 10 day intervals or as required.

Other Vegetable Insects

Cutworms (Surface and Subterranean)

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

Broadcast 14 - 28 lbs. per acre just prior to planting. Work into soil 2 - 3 inches to control surface cutworms, 3 - 6 inches to control subterranean cutworms.

Potatoes: Broadcast 14 - 28 lbs. per acre before planting. Work into soil 4 - 6 inches.

Garden Symphylans (Centipedes)

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

Broadcast 70 lbs. per acre just prior to planting. Work into soil 4 - 8 inches. This preplant treatment will also control other soil insects such as cutworms (Surface and subterranean), mole crickets, root maggots, and wireworms.

Mole Crickets

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

Apply 7 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.

Lesser Cornstalk Borers

Beans (Lima, Pole, Snap): Apply 7 - 14 lbs. per acre in a 6 - inch band centered over the row. Apply when plants are $\frac{1}{2}$ - 1 inch tall.

Wireworms

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

Broadcast 21 - 28 lbs. per acre just prior to planting. Work into soil 4 - 8 inches.

Potatoes: Broadcast 21 - 42 lbs. per acre before planting. Work into soil 4 - 8 inches or apply 7-21 lbs. per acre at planting, placing D-264 14G Granular Insecticide in bands 3 - 6 inches deep along both sides of row.

Sweet Potatoes (Southeastern U.S.): Broadcast 21 lbs. per acre over the tops of vines when roots begin to enlarge.

Small Fruit Insects**Strawberries**

Mole Crickets: Apply 7 lbs. per acre when insects are present. Make application to plant beds or fields 1 - 2 days prior to transplanting and work into soil 1 - 2 inches.

Lawn Insects

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping of sprays. If waterfowl, i.e. ducks, geese can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however stop watering before puddling occurs.

Lawn Chinch Bugs: apply $\frac{1}{2}$ - $\frac{3}{4}$ lbs. per 1,000 sq. ft. ($2\frac{1}{2}$ - 3.75 lbs. per 5,000 sq. ft.).

Water lawn thoroughly after application. Repeat application in 7 - 10 days if necessary.

Billbugs; White Grubs such as Japanese Beetle Larva, European Chafer, and Southern Chafer: Apply $\frac{3}{4}$ lb per 1,000 sq. ft. of lawn. Water grass thoroughly after application. For grub control make application any time between late July and early October. For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

Hyperodes Weevil (New York only): Apply $\frac{3}{4}$ lbs. per 1,000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE INSTRUCTIONS: Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Protect from moisture. Avoid storage at high temperatures. Do not stack over 2 pallets high. Keep bags tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizers to avoid cross contamination. Avoid contamination with water, acids and alkaline. Store in original containers only. If the contents are spilled, follow these steps:

1. Wear a respirator and gloves.
2. Sweep material into a suitable container for disposal.
3. Wash surface with water containing caustic soda, follow with a detergent wash.
4. Follow washing with clean water rinse.
5. Do not allow runoff to enter sewer or contaminate water supplies.
6. Dispose of waste as indicated below:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities by burning. If burned, stay out of smoke.

WARRANTY - CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer.