

485115

AUG - 4 1995

Mr. Russell F. Sawyer  
Riverdale Chemical Company  
425 West 194th Street  
Glenwood, IL 60425-1584

Dear Mr. Sawyer:

Subject: Amendment- Revise per Diazinon Registration Standard  
Riverdale 5% Diazinon Insect Killer Granules  
EPA Registration Number 228-177  
Your submission dated February 28, 1995

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

- 1) Submit and/or cite all data or other materials required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
- 2) Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Revise the front panel use limitation to read as follows:  
For outdoor use on home lawns, gardens, ornamentals and around the home only
  - b. The claim "TREATS UP TO 45,700 SQ. FT." is misleading. Such claims usually pertain to lawn use, and at the labeled lawn rate of 2 lbs. per 1,000 sq. ft., this 20 pound package would cover 10,000 sq. ft of lawn.
  - c. Replace "Harmful if swallowed...before smoking or eating." with the following:

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid breathing dust and contact with skin, eyes, or clothing. May cause contact sensitization

following repeated contact with skin in susceptible individuals. If sensitization reactions result, consult a physician. Wash thoroughly with soap and water after handling and before eating or smoking. Do not store near food or feed products. Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides. Do not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.

- d. At the end of the IF ON SKIN advice in the STATEMENT OF PRACTICAL TREATMENT, add "Get medical attention."
- e. In the Environmental Hazards, add a comma after "(ducks or geese)".
- f. Revise the heading "Additional Precautions to Reduce Risks to Birds" to "Special Precautions to Reduce Risks to Birds" and revise the text of this section to read as follows (this heading and associated text should appear in an outline box):
  1. Do not treat areas larger than 15,000 sq. ft.
  2. Be sure to read and follow the precautions that appear under the heading Environmental Hazards.
  3. If it is necessary to repeat application, wait a minimum of 3 weeks between applications. Make no more than 4 applications per year.
- g. Under Lawn Protection change "Sowbugs (Pill bugs)" to read "Sowbugs (Pillbugs)".
- h. Under How to Apply: To control ants, armyworms...sod webworms (lawn moths), revise "apply at 4 to 6 week intervals. Repeat as necessary." to "Apply when grass is dry. Water lightly after application. If necessary, repeat application at 4 to 6 week intervals. Make no more than 4 applications per year."
- i. Under How to Apply: To control grubs, capitalize the "A" of the genus name "Ataenius" and revise "stop watering if puddling occurs" to "stop watering before puddling occurs". In this same section, for control of billbugs revise "Repeat as necessary." to "If necessary, repeat application at 3-week intervals. Make no more than 4 applications per year."
- j. Change "Spot Treatment" to "Lawn Spot Treatment". Under this heading, revise "water it thoroughly" to "water-in thoroughly".

- k. Under BAND TREATMENT AROUND HOUSE FOUNDATION: change "(5' x 20')" to "(2' x 50')", since the band is 2 feet wide. In this same section, revise "Repeat as necessary" to "If necessary, repeat application at 3-week intervals."
- l. Under CUTWORMS, the term "& hybrids of these" refers to the various melon varieties listed above, not to hybrids of melons and watermelons. To clarify this, relocate Watermelons to its correct alphabetical location, i.e., after Tomatoes.
- m. Under WIREWORMS, the term "& hybrids of these" refers to the various melon varieties listed above, not to hybrids of melons and watermelons. To clarify this, relocate Watermelons to its correct alphabetical location, i.e., after Turnips.
- n. Delete the Lesser Cornstalk Borers directions. Foliar application of granular diazinon to food crops is not supported for reregistration..
- o. Delete the Carrot Rust Flies directions. In furrow application of granular diazinon to food crops is not supported for reregistration..
- p. Revise the heading and entry for seed corn maggots to read as follows:  
  
**Seed Corn Maggots**  
 Sweet Corn: Apply 7 to 14 oz. per 500 sq. ft. Broadcast and mix into soil 2 inches just before planting.
- q. Delete the European Corn Borers, Fall Armyworms, and Southwestern Corn Borers directions. Foliar application of granular diazinon to food crops is not supported for reregistration..
- r. Under Sweet Potatoes delete "Southeastern U.S." directions. Foliar application of granular diazinon to food crops is not supported for reregistration..

A stamped copy of the label is enclosed for your records.

A revised Confidential Statements of Formula (CSF), must be submitted for this product. The CSF must include upper certified limits for the impurities of toxicological concern as identified in the Diazinon Registration Standard (TEPP, O,S-TEPP, S,S-TEPP, and oxo-diazinon), and should include signed and dated certification statements relative to FIFRA Sec 12 (a)(1)(C) and the method of

arriving at the certified limits for the impurities (i.e., reliance on Ciba-Geigy's analysis, or another producer's analysis if another source of diazinon is used) and addressing data requirements under Guidelines 61-3 and 61-2b. If you have more than one diazinon supplier, separate CSF forms should be submitted for each supplier since the levels of toxicologically significant impurities are different for each diazinon technical and the certification of analyses are only appropriate to each supplier's own material. The text of these certification statements is as follows:

I hereby certify that, for the purposes of FIFRA Sec.12(a)(1)(C), the description of the composition of [your product's name], EPA Reg. No. [insert correct number for your product], refers to the composition set forth on this Statement of Formula and supporting materials. This description includes the representation that (1) no ingredient will be present in the product in an amount greater than the upper certified limit or in an amount less than the lower certified limit specified for that ingredient in this Statement of Formula; and (2) if the Agency requires that the source of supply of an ingredient be specified, that all quantities of such ingredient will be obtained from the source specified in the Statement of Formula.

I certify that the upper certified limits for the impurities listed on this Statement of Formula are based on [your supplier's name] analysis and certification of limits for this product based on [name of source product that your supplier has analyzed]. I further certify under Section 61-3 and 61-2(b) that there are no chemical reactions between diazinon and/or its impurities with the intentionally added inerts.

If you do not already have the impurities information required on the CSF, please immediately contact your supplier(s) directly.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

5/87

RIVERDALE

5% DIAZINON INSECT KILLER GRANULES

Ready To Use

For use on lawns, gardens, ornamentals and around the home

TREATS UP TO 45,700 SQ. FT.\*

This product must not be used on golf courses and sod farms.

This product is designed especially for outdoor control of ants and other listed crawling insects.

It is effective as a preplant treatment for control of cutworms and wireworms in vegetable gardens.

It also controls a wide range of insects in garden plantings and around the home, and offers excellent protection against major lawn insects in both grass and dichondra lawns.

Kills ants, brown dog ticks, crickets, cutworms, earwigs, grubs, millipedes, onion maggots, sowbugs, wireworms and other listed insects. Also aids in control of fire ants.

\*See Directions For Use for specific recommendations

ACTIVE INGREDIENT:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothiotate	. 5%
INERT INGREDIENTS: . . . . .	. 95%
TOTAL . . . . .	100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for additional precautionary statements

NET WT. 20 LBS.

EPA REG. NO. 228-177

EPA EST. NO. 228-IL-1

MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY

GLENWOOD, ILLINOIS 60425-1584

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

AUG - 4 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
228-177

5

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing dust and contact with eyes, skin and clothing. May cause contact sensitization following repeated contact with skin in susceptible individuals. Avoid repeated contact with skin. If sensitization reactions result consult a physician. Do not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil has dried. Wash thoroughly after handling and before smoking or eating.

STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call 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 if person is unconscious or convulsing.

**IF INHALED:** Remove victim to fresh air and apply artificial respiration if necessary.

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

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

**NOTE TO PHYSICIAN:** This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, and may be administered, but only in conjunction with atropine.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl (ducks or geese) feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of granules. Follow all watering instructions in the directions for use, however, stop watering before puddling occurs. Do not apply this product to sites occupied by waterfowl, or within 75 ft. of any body of water that may attract waterfowl, such as ponds or lakes. Do not contaminate ornamental fish ponds. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water. Runoff may be hazardous to fish and other aquatic organisms in neighboring areas. 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. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

ADDITIONAL PRECAUTIONS TO REDUCE RISKS TO BIRDS DURING OVERALL LAWN APPLICATION

1. Do not treat areas larger than 15,000 sq. ft.
2. If it is necessary to repeat application, wait a minimum of 3 weeks between applications. Make no more than four applications per year.

**LAWN PROTECTION:** 5% DIAZINON INSECT KILLER GRANULES controls the following lawn pests in both grass and dichondra lawns. Apply when insects are present.

Ants	Digger wasps	Sod webworms
Armyworms	Dung beetles	(Lawn moths)
Bermudagrass mites	Earwigs	Sowbugs
Billbugs	Fire ants*	(Pill bugs)
Brown dog ticks	Fleas	Springtails
Chiggers	Hyperodes weevils	(Collembola)
Chinch bugs	Leafhoppers	White grubs of:

Clover mites  
Crickets  
Cutworms

Millipedes  
\*Aids in control.

Japanese beetle  
European chafer  
Southern chafer

#### How to Apply:

Apply 5% DIAZINON INSECT KILLER GRANULES with a fertilizer spreader. For all the insects listed above, apply at a rate of 2 lbs. per 1000 sq. ft. (20' x 50') or 3.2 oz. per 100 sq. ft. (10' x 10'). See spreader setting on chart below. For best results, the lawn should be dry at time of application.

To control ants, armyworms, Bermudagrass mites, brown dog ticks, chiggers, chinch bugs, clover mites, cutworms, earwigs, fleas, leafhoppers, millipedes, sowbugs, springtails and sod webworms (lawn moths), apply at 4 to 6 week intervals. Repeat as necessary.

To control grubs, except dung beetle, apply any time between July and early October. For dung beetle (*ataenius spretulus*) apply in Spring or early Summer when damage is first noticed. Water grass thoroughly with at least 1/4 inch of water after application, however, stop watering if puddling occurs. Treat again in late Summer or early Fall, if a second generation occurs. To control billbugs, apply when activity is first observed, or when chewed or brown grass indicated damage from these insects. Repeat as necessary.

To control *Hyperodes* weevils: Treat problem areas in mid-April and again in mid-May. Water grass with at least 1/4 inch of water after application, however, stop water before puddling occurs.

SPREADER MAKE AND MODEL	LAWN SPREADER SETTING NO. (To deliver 2 lbs. per 100 sq. ft.) Grass or Dichondra Lawn
Central Imperial Mark No. 1662-G	6-1/2
Central Suburbia Lawn Spreader No. 1622-0	6-1/2
Ferti-Lome DeLuxe	6-1/2
Ferti-Lome Cyclone/Broadcast	4-1/2
Cyclone Model B1 Rotary	4-1/2
Greenfield Model 105	6-1/2
Ortho Drop Spreader Model 3000	4-1/2
Ortho Broadcast Spreader Model 4000	4-1/2
J. C. Penney Model 6005	7-1/4
J. C. Penney Rotary Spreader	5
Scott Precision Flow Drop Spreader Model PF-4	4
Sears Craftsman Model 671.19198	6

NOTE: The spreader settings listed above are approximate. Accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust spreader setting if necessary in order to assure correct rate of application.

#### Spot Treatment:

Ants: Apply 1-1/2 teaspoons over and around each ant hill.

Fire Ants: To aid in the control of fire ants in lawns and other recreational areas, apply 1/2 cup over, and 2 ft. around, each fire ant mound. Immediately after application, water it thoroughly. A minimum of 1 gallon of water should be applied to each mound area. Repeat as necessary. Apply gently to avoid disturbing ants and cause migration, reducing product effectiveness. Note: For best results, apply in cool weather, 65 to 80°F or in early morning or late evening hours. Treat new mounds as they appear.

Digger Wasps: Apply 1-1/2 teaspoons in and around each nest opening. Apply at dusk when wasps are not active.

#### BAND TREATMENT AROUND HOUSE FOUNDATION:

The following pests are commonly found around or near foundations of houses as well as in lawns. Certain of these pests may enter houses.

Ants  
Brown dog ticks  
Clover mites

Crickets  
Earwigs  
Fleas

Millipedes  
Sowbugs (Pillbugs)  
Springtails (Collembola)

Apply a 2-foot band of 5% DIAZINON INSECT KILLER GRANULES next to the house foundation. Distribute granules uniformly, using a rate of 3.2 oz. for each 100 sq. ft. area (5' x

20') treated. Apply when insects are present, especially in late Spring or early Fall. Repeat as necessary.

**GARDEN INSECT CONTROL:**

5% DIAZINON INSECT KILLER GRANULES controls certain garden insects on crops listed below. This product should be thoroughly mixed into the soil during or immediately after application. Granules that are spilled or are visible on soil surfaces should be covered with soil or thoroughly mixed into the soil. Apply uniformly as directed for each crop. When a range of rates are given, use the higher rates only for heavier infestations. Do not apply this product to food crops grown in greenhouses.

**Cutworms (surface and subterranean)**

Beans*	Cauliflower	Casabas	Peas*
Lima	Celery	Crenshaw	Peppers
Pole	Collards	Honeydew	Potatoes
Snap	Cucumbers	Muskmelons	Spinach
Beets, Red (Table)	Endive (Escarole)	Persians &	Squash
Broccoli	Kale	Hybrids of	Summer
Brussels sprouts	Lettuce	these and	Winter
Cabbage	Melons	Watermelons	Sweet Corn
Carrots	Cantaloupes	Parsley	Swiss chard
			Tomatoes

\*Succulent only; do not use on dried bean varieties such as pintos, dried limas, navy beans, etc.; nor on dried pea varieties such as blackeyed peas.

Apply 7 to 14 oz. per 500 sq. ft. and mix into soil just before planting to a depth of 2 to 3 inches for surface cutworms and 3 to 6 inches for subterranean cutworms. If type of cutworm cannot be identified, mix into soil 4 to 6 inches deep.

**Mole Crickets**

Beets, Red (Table)	Cauliflower	Peas*
Broccoli	Collards	Peppers
Brussels sprouts	Endive (Escarole)	Radishes
Cabbage	Kale	Tomatoes
Carrots	Lettuce	Turnips
	Mustard	

\*Succulent only; do not use on dried pea varieties such as dried blackeyed peas.

Apply 3-1/2 oz. per 500 sq. ft. and mix into soil to a depth of 1 to 2 inches, 1 to 2 days before planting.

**Wireworms**

Beans*	Celery	Honeydew	Peas*
Lima	Collards	Muskmelons	Peppers
Pole	Cucumbers	Persian &	Potatoes
Snap	Endive (Escarole)	Hybrids of	Spinach
Beets, Red (Table)	Kale	these and	Squash
Broccoli	Lettuce	Watermelons	Summer
Brussels sprouts	Melons	Onions	Winter
Cabbage	Cantaloupes	Bulb	Sweet Corn
Carrots	Casabas	Green	Swiss Chard
Cauliflower	Crenshaw	Parsley	Tomatoes
			Turnips

\* Succulent only; do not use in dried bean varieties such as pintos, dried limas, navy beans, etc.; nor on dried pea varieties such as blackeyed peas.

Apply 10-1/2 to 14 oz. per 500 sq. ft. and mix into soil 4 to 8 inches just before planting.

**Root Maggots**

Broccoli	Cabbage	Cauliflower
Brussels sprouts		Radishes*

Apply 7 to 10-1/2 oz. per 500 sq. ft. Broadcast and mix into soil 3 to 4 inches just



before planting or transplanting.

- \* Apply 5-1/2 to 7 oz. per 500 sq. ft. in the seed furrow at planting (2-1/2 to 2-4/5 oz. per 1000 linear feet of row).

#### **Onion Maggots**

Onions (Bulb and Green): Apply 7 to 14 oz. per 500 sq. ft. Broadcast just before planting and mix into the top 3 to 4 inches of soil.

Note: Resistant onion maggots will not be controlled by diazinon or similar type insecticides.

#### **Lesser Cornstalk Borers**

Beans - Lima, Pole or Snap (succulent only): Apply 3-1/2 to 7 oz. per 500 sq. ft. in a 6 inch band centered over the row when plants are 1/2 to 1 in. tall. Do not use on dried bean varieties, such as pinto, dried limas, navy beans, etc.

#### **Carrot Rust Flies**

Carrots: Apply 7 oz. per 500 sq. ft. in the seed furrow at planting time.

#### **Sweet Corn Maggots**

Seed Corn Maggots: Apply 7 to 14 oz. per 500 sq. ft. Broadcast and mix into soil 2 inches just before planting.

European Corn Borers\*: apply 3-1/2 to 7 oz. per 500 sq. ft. when 75% of the plants show first-generation borers feeding, apply over the corn so granules fall into whorls. Make a second application 7 days later if needed. For second generation borers, apply as above when there is an average of 1 egg mass per plant. Do not make more than 3 applications per season.

Fall Armyworms\*: Apply 3-1/2 to 7 oz. per 500 sq. ft. over corn so granules fall into whorls when larvae first appear. If necessary, application may be repeated twice at 7-day intervals. Do not make more than 3 applications per season.

Southwestern Corn Borers\*: Apply 3-1/2 to 7 oz. per 500 sq. ft. over corn so granules fall into whorls when second generation larvae first appear. If necessary, application may be repeated at 7-day intervals. Do not make more than 3 applications per season.

\*Note: Corn may be picked immediately after last application. Do not feed fodder to livestock for 10 days following last application.

#### **Sweet Potatoes**

Wireworms and Flea beetles: Apply 10-1/2 oz. per 500 sq. ft. Broadcast and mix into soil just before planting.

Southeastern U.S. - Broadcast over tops of vines when roots begin to enlarge and do not mix into soil.

### **STORAGE AND DISPOSAL**

**STORAGE:** Store in original container and keep any bags containing unused product in an area inaccessible to children and domestic animals. Do not store near feed or foodstuff. To prevent cross-contamination, do not store near other fertilizers, or near herbicides, insecticides, fungicides or seeds.

**PRODUCT DISPOSAL:** To dispose of bags which contain unused product, securely wrap bag in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse empty bag. Fold empty bag and discard in trash.

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

(PR938 042194/DCI 080293)