

MAY 30 1991

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ICI Americas, Inc.
Agricultural products
New Murphy Road and Concord Pike
Wilmington, DE 19897

Gentlemen:

Subject: Dyfonate II 20-G Granular Insecticide
EPA Reg. No. 10182-135
Your Application Dated April 30, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the revised labeling:
2. Under "Reentry Statements" in the paragraph beginning "Written warnings".. In the second sentence delete "24 hours" and replace "96 hours" with "10 days" for Foliar application in corn.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

Jacket



2 of 15

DYFONATE II 20-G Container
DYF135C.RSE.RS-043091E

Front Panel

**RESTRICTED USE PESTICIDE
DUE TO ACUTE ORAL TOXICITY**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

DYFONATE® II 20-G Granular Insecticide

Soil Insecticide for Protection Against
Corn Rootworm, Black Cutworm, and Other Major Pests

ACTIVE INGREDIENT:

O-Ethyl S-phenyl ethylphosphonodithioate* 20.0%

INERT INGREDIENTS: 80.0%

Total 100.0%

Contains 20 pounds active ingredient per 100 pounds

*DYFONATE

KEEP OUT OF REACH OF CHILDREN

DANGER-POISON(POISON IN RED)

OX

OX

PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

Hazardous To Livestock

See back panel for additional Precautionary Statements

EPA Reg. No. 10182-135

EPA Est. No.

50 Lbs. Net Wt. 22.7 Kg.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

Made in U.S.A. by
ICI Agricultural Products
A business unit of ICI Americas Inc.
Wilmington, DE 19897

MAY 30 1991

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

10182-135

STATEMENT OF PRACTICAL TREATMENT

FOR PESTICIDE EMERGENCY

CALL PHYSICIAN IMMEDIATELY: If a known exposure occurs, or if poisoning is suspected, do not wait for symptoms to develop. Immediately contact a poison Control Center, a physician, or the nearest hospital.

Note: Be sure to advise the person contacted that the compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

POISON SYMPTOMS: DYFONATE® II 20-G granular insecticide is a highly toxic cholinesterase inhibitor. Symptoms of poisoning include headache, blurred vision, weakness, nausea, discomfort in the chest, abdominal cramps, vomiting, diarrhea, salivation, sweating and pinpoint pupils.

**ALWAYS CALL A PHYSICIAN IN CASE OF SUSPECTED POISONING.
ATROPINE BY INJECTION IS ANTIDOTAL**

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF ON SKIN: Flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

IF IN EYES: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately!

IF INHALED: Remove to fresh air. If not breathing, clear victim's airway, start mouth-to-mouth artificial respiration. Get medical attention.

IF BREATHING IS DIFFICULT, give oxygen, preferably with a physician's advice. Get medical attention immediately.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D
(327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC
1-800-424-9300.**

INFORMATION FOR MEDICAL PERSONNEL: Initial measures include removal of secretions, maintenance of patent airway, and if necessary, artificial respiration. When cyanosis is relieved, atropine by injection is antidotal and may be administered in large therapeutic doses, repeated as necessary to the point of tolerance. If symptoms warrant further treatment, 2 PAM (Protopam Chloride) has shown utility as adjunctive therapy. Never use morphine. Continued absorption of the poison may occur, resulting in fatal relapse after initial improvement; very close supervision of the patient is indicated for at least 48 to 72 hours.

For other product information contact your local ICI Americas Inc. Distributor or see Material Safety Data Sheet.

Hazardous to Livestock, Humans, and Domestic Animals.

Back Panel

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

OX DANGER-POISON OX

Hazardous to livestock – do not contaminate feed used for livestock.

POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT GET IN THE EYES, ON SKIN, OR ON CLOTHING. AVOID BREATHING OF DUST.

Wear respirator approved by the National Institute for Occupational Safety and Health (30 CFR Part 11-Subpart M) for protection against pesticide inhalation.

Wear rubber gloves, shoes, protective clothing, and goggles when handling or applying.

Wash hands, arms, and face thoroughly with soap and water after handling and before eating or smoking. Routinely shower or bathe after work and wash all clothing with soap and hot water before reusing. In case of contact, immediately remove contaminated clothing and wash thoroughly with soap and water.

Do not transport or store DYFONATE II 20-G with any food or feed intended for human or animal consumption.

Not for use or storage in or around the home.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds feeding in treated areas may be killed. Remove or cover granules if spills occur. Runoff from treated areas may be hazardous to fish in neighboring areas. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters. For guidance contact your regional office of the EPA. Apply this product only as specified on the label.

In case of spill, isolate the spill.

Hold this package, other cargo and vehicles involved.

Immediately telephone (24-hour service) for emergency assistance Chemtrec 1-800-424-9300.

GENERAL PRECAUTIONS

- Read all directions before using.
- Do not apply on any crop, or in any manner not specified on this label.
- Do not rotate with carrots.

DIRECTIONS FOR USE

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

REENTRY STATEMENTS

- Do not enter treated areas without protective clothing until treatments have been completed.
- Foliar Applications (over the top) for Corn: Do not allow reentry into treated fields within 10 days of application unless appropriate protective clothing is worn. Protective clothing means, at least, a hat or other suitable head covering, gloves, a long-sleeved shirt and long-legged trousers or coverall type garment (all closely woven fabric covering the body, including the arms and legs), shoes and socks.
- Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.
- Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.
- Do not apply or allow to drift to areas occupied by beneficial animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.
- Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are given, warnings shall be given in a language customarily understood by workers and must indicate the specific period of time that treated areas may not be entered without protective clothing. Oral warnings must also include appropriate first aid instructions in case of accidental exposure. These instructions are given in the STATEMENT OF PRACTICAL TREATMENT at the beginning of this label.

Written warnings must include the following information, "WARNING, Area treated with DYFONATE II 20-G Agricultural insecticide on (date of application). Do not enter treated areas for 24 hours (96 hours for foliar applications in corn) after application unless appropriate protective clothing is worn (or other reentry interval if your state has a more restrictive interval for this product)." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT given at the beginning of this label.)

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Do not transport or store with any food or feed intended for human or animal consumption. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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.

FOR BULK CONTAINERS

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER PRECAUTIONS

Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH DYFONATE II 20-G. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than DYFONATE II 20-G will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

**DIRECTIONS FOR USE AND
CONDITIONS OF SALE AND WARRANTY**

IMPORTANT: Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

DYFONATE® is a trademark of an ICI Group Company.



**RESTRICTED USE PESTICIDE
DUE TO ACUTE ORAL TOXICITY**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

**DYFONATE® II 20-G
Granular Insecticide**

Soil Insecticide for Protection Against
Corn Rootworm, Black Cutworm, and Other Major Pests

READ ALL LABEL DIRECTIONS BEFORE USING

GENERAL PRECAUTIONS

- Read all directions before using.
- Do not apply on any crop, or in any manner not specified on this label.
- Do not rotate with carrots.

DIRECTIONS FOR USE

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

Application of a sulfonylurea herbicide such as Beacon® herbicide and Accent® herbicide following application of a soil insecticide such as DYFONATE® II 20-G granular insecticide may result in crop injury. Follow the Directions for Use and Precautions contained on the sulfonylurea herbicide label.

REENTRY STATEMENTS

- Do not enter treated areas without protective clothing until treatments have been completed.
- Foliar Applications (over the top) for Corn: Do not allow reentry into treated fields within 10 days of application unless appropriate protective clothing is worn. Protective clothing means, at least, a hat or other suitable head covering, gloves, a long-sleeved shirt and long-legged trousers or coverall type garment (all closely woven fabric covering the body, including the arms and legs), shoes and socks.
- Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

- Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.
- Do not apply or allow to drift to areas occupied by beneficial animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.
- Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are given, warnings shall be given in a language customarily understood by the workers and must indicate the specific period of time that treated areas may not be entered without protective clothing. Oral warnings must also include appropriate first aid instructions in case of accidental exposure. These instructions are given in the **STATEMENT OF PRACTICAL TREATMENT** on bag.

Written warnings must include the following information, **"WARNING, Area treated with DYFONATE II 20-G Agricultural Insecticide on (date of application). Do not enter treated areas for 10 days (96 hours for foliar applications in corn) after application unless appropriate clothing is worn (or other reentry interval if your state has a more restrictive interval for this product)."** (Written warnings must include the **STATEMENT OF PRACTICAL TREATMENT** on bag.)

GAUGE SETTINGS AND CALIBRATION INSTRUCTIONS

NOTE: These settings should be used as starting points only. Continually check the amount of DYFONATE II 20-G used against a known length of row or acreage and make further adjustments accordingly. Also, check calibration occasionally to make sure equipment wear, changing conditions, etc., have not caused a change in flow rate.

GAUGE SETTINGS								
DYFONATE II 20-G 6 oz/1000 ft of row								
Equipment	Speed in mph							
	3	4	5	6	7	8	9	10
Gandy bolt on bottom	13	15.3	17.3	19.5	21	22.5	24	25
Gandy snap-on bottom	13.5	15.5	17.5	19.5	21	22.5	24	25
Noble (round opening)	6	8	10	12	14	16	17	19
Noble (rectangular opening)	4	5	7	8	10	11	12	13
John Deere 1986 Maxi-Emerge II (adjustable knob-0-79)	12	14.3	16.5	19	22	25	28	31
John Deere 7000 Maxi-Emerge (Even) (0-10-20-30-40)	8	10	13	15	17	20	21	23
John Deere 7000 Maxi-Emerge (odd) (5-15-25-35-45)	8	9	11	12	14	15	16	17
John Deere (metal box with 3 range settings and dial) Range/Notch	1/22	1/24	1/27	1/29	2/2	2/4	2/7	2/9
International Harvester (one gauge per hopper) Gate/Dial	1/5	1/6.5	1/7.8	1/9	2/0.5	2/2.5	2/5.0	2/7.5
International Harvester (two gauges per hopper) Gate/Dial	1/6.3	1/7.4	1/8.3	1/9.5	2/1.5	2/3.3	2/6.0	2/9.0
Buffalo (with gauge)	-	7	9	11	13	14	16	18
Buffalo (fluted-roll feed)	All speeds - 4 complete revolutions of hexagonal nut							
Allis Chalmers	Gauge setting 5 will provide 6 oz per 1000 feet of row at all speeds							

EQUIVALENT LBS. DYFONATE II 20-G PER ACRE									
Ounces of DYFONATE II 20-G per 1000 ft of row	Row Spacing in Inches								
	60	40	38	36	34	32	30	22	18
3.4	1.8	2.8	2.9	3.1	3.2	3.4	3.7	5.0	6.0
5.1	2.8	4.1	4.3	4.6	4.9	5.2	5.5	7.5	9.2
6	3.3	5.0	5.2	5.4	5.8	6.1	6.5	9.9	10.9
11	6.0	9.0	9.5	10.0	10.6	11.3	12.0	16.4	20.0
12	6.5	10.0	10.3	10.9	11.5	12.2	13.1	17.8	-
27.2	14.8	-	-	-	-	-	-	-	-
36.7	20.0	-	-	-	-	-	-	-	-
55.1	30.0	-	-	-	-	-	-	-	-

See reverse for Recommendations
 EPA Reg. No. 10162-135

Made in U.S.A. by
 ICI Agricultural Products
 A business unit of ICI Americas Inc.
 Wilmington, DE 19897

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RECOMMENDATIONS

CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 20-G	REMARKS	ADDITIONAL INFORMATION
COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower)	Immediately prior to planting or at planting	Cabbage Maggot	Broadcast: 20 pounds per acre	Not recommended in the Northwestern U.S.	Broadcast to or at the time of planting. Incorporate to a depth of 2 to 3 inches.
CORN - FIELD (Dent, Seed, Grain, Sweet, Popcorn)	Immediately prior to planting or at planting	Northern, Southern, Western Corn Rootworm Black Cutworm Suppression of White Grubs Seedcorn Maggot Seedcorn Beetle Wireworms Lesser Cornstalk Borer Symphylans Maize Blight	Band: 6 oz. per 1000 linear feet or Broadcast: 20 pounds per acre Band: 12 oz. per 1000 linear feet Broadcast: 10 pounds per acre Broadcast: 20 pounds per acre	May be used on conventional, minimum or conservation and no-till tillage systems. With heavy infestations of cutworms, a sufficient number of larvae may survive the DYFONATE treatment to cause damage to the corn. If this occurs, a rescue treatment with AMBUSH insecticide or another insecticide registered for this use can be made to control these surviving larvae. DYFONATE II 20-G is recommended for control of seedcorn beetle in the central and midwestern corn growing areas only. Band applications of DYFONATE II 20-G will provide suppression of wireworms. Use the broadcast application to control. DYFONATE II 20-G is recommended for control of maize blight in the Southeastern U.S. only.	Band: Apply wide bands behind the corn. If the corn is already in the field, the broadcast application of the product will control the cutworms. If the corn is in the field, the broadcast application of the product will control the cutworms. Some grasshoppers may be present without control. However, make sure to use DYFONATE II 20-G. Broadcast to planting depth of 2 to 3 inches. Use equipment.

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 20-G	REMARKS	APPLICATION DIRECTIONS
	At Cultivation	Northern, Southern, and Western Corn Rootworm	Band: 6 oz. per 1000 linear feet	Apply DYFONATE II 20-G when activity of rootworm larvae is first observed.	Band: Apply DYFONATE II 20-G in a 7 inch wide band over the corn rows. Cover the treated bands with 2 to 3 inches of soil by making the application ahead of disc tillers or cultivation equipment. Do not apply within 45 days of harvest nor feed or graze livestock within 30 days of treatment.
	Over the Whorl	European Corn Borer, Southwestern Corn Borer Reduction of Fall Armyworm Populations	Band: 6 oz. per 1000 linear feet or Broadcast: 5 pounds per acre	Consult your State Agricultural Experiment Station or extension service specialist for local treatment threshold and application timing information. Scouting for insect damage is strongly recommended.	Band or Broadcast: Apply DYFONATE II 20-G over the corn rows so granules fall into the whorl. May be applied broadcast, using air or ground equipment, or, in a band directed over corn rows. Do not apply within 30 days of harvest nor feed or graze livestock within 30 days of treatment.
SWEET CORN (Grown on Muck Soils)	At Planting	Wireworms	Band: 12 oz. per 1000 linear feet	Recommended in Florida only.	Band: Apply DYFONATE II 20-G in a 2 inch wide band over the corn rows.
PEANUTS	At early flowering or up to 30 days after pegging begins	Southern Corn Rootworm, Granulate Cutworm Lesser Cornstalk Borer	Band: 12 oz. per 1000 linear feet	Recommended for the Southeastern U.S. only. For control of southern corn rootworm and granulate cutworm, apply DYFONATE II 20-G at early flowering or pegging. For control of lesser cornstalk borer, apply DYFONATE II 20-G at first signs of borer infestation after pegging begins.	Band: Apply DYFONATE II 20-G in an 18 inch wide band. May be used up to 30 days after pegging begins.
SORGHUM* (milo)	At Planting	Northern, Southern, and Western Corn Rootworm Lesser Cornstalk Borer	Band: 6 oz. per 1000 linear feet		Band: See Band Applications for corn - field (Dent, Seed, Grain, Silage), SWEET, POPCORN.

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 20-G	REMARKS	APPLICATION DIRECTIONS
SUGAR BEETS	At Planting	Sugar Beet Root Maggot	Band: 3.4 to 5.1 oz. per 1000 linear feet	To avoid stand reduction, do not place DYFONATE II 20-G in direct contact with the seed.	Band: Apply DYFONATE II 20-G in a 7 inch wide band over the sugar beet rows. Incorporate lightly into the soil using suitable tillage equipment.
SUGARCANE	Post-emergence	White Grub	Band: 36.7 to 55.1 oz. per 1000 linear feet	Recommended in the Southwestern U.S. only. Consult your State Agricultural Experiment Station or extension service specialist for local treatment threshold and application timing information.	Band: Apply DYFONATE II 20-G over the top of the cane row and lightly incorporate as close to the plants as possible. For best results, irrigate the application.
	At Planting	Wireworms	Band: 27.2 to 36.7 oz. per 1000 linear feet	Use only 36.7 oz. rate outside of Florida.	Apply DYFONATE II 20-G in 14 inch band on cane rows 60 inches apart. Apply over the tops of sugarcane seed pieces immediately ahead of covering discs.

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 Accent® is a trademark of E. I. duPont de Nemours & Co. (Inc.).
 Beacon® is a trademark of CIBA-GEIGY Corporation.

