

PM 14 10182-187

10/29

JUN 8 1994

5467309 $\frac{300}{17}$

Andrew A. Davidson
Regulatory Product Manager
Zeneca Ag Products
1800 Concord Pike
Wilmington, DE 19897

Dear Mr. Davidson:

Subject: Dyfonate II 15-G Insecticide
EPA Registration No. 10182-187
Amendment dated May 25, 1994

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

- 1) Include "Net Contents" on your label as required in 40 CFR 156.10(d).
- 2) Correct the spelling error on page 6 of the container label. The sentence should read "Follow the Directions for Use and Precautions contained on the sulfonylurea herbicide label."
- 3) Submit one copy 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 bearing the amended labeling constitutes acceptance of these conditions.

Edwards 6/8/94 A. 10182) (E7.1

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

-2-

A stamped copy of the labeling is enclosed for your records. If you have any questions about this letter, please contact Beth Edwards at (703) 305-5400 or (703) 305-6600.

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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**DYFONATE® II 15-G
Granular Insecticide**

Organophosphate

Soil Insecticide for Pest Control In A Variety of Crops

ACTIVE INGREDIENT:

O-Ethyl-S-phenylethylphosphonodithioate*	15.0%	✓
INERT INGREDIENTS:	<u>85.0%</u>	✓
Total	100.0%	✓

Contains 15 pounds active ingredient per 100 pounds
*fonofos

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUN 8 1994

EPA Reg. No. 10182-187
EPA Est. No.

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide
registered under EPA Reg. No.
10182-187

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, Delaware 19897

Net Contents:
410 CFR 156.14(a)

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: The active ingredient in DYFONATE® II 15-G granular insecticide (fonofos) is an organophosphate pesticide that inhibits cholinesterase. 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. Refer person to medical personnel. 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.

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: If cholinesterase inhibition is suspected, initial measures should include, if necessary, removal of secretions, maintenance of airway, assisted respiration, and atropine as the antidote. Atropine may be injected in large therapeutic doses as needed to abate symptoms and as tolerated by the patient. Pralidoxime chloride (2-PAM, Protopam) can also be used as adjunctive therapy. The material may continue to be absorbed, resulting in relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. DO NOT BREATHE DUST. RAPIDLY ABSORBED THROUGH SKIN. AVOID CONTACT WITH THE EYES, SKIN, OR CLOTHING.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.
- Protective eyewear.
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not transport or store DYFONATE II 15-G with any food or feed intended for human or animal consumption.

Not for use or storage in or around the home.

ok

Handwritten notes and scribbles at the bottom left.

BEST AVAILABLE COPY

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DYFONATE II 15-G Container
DYF187C.RSJ - RS-050694J

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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**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.**

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**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. 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 or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to attached booklet for use directions.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Application of a sulfonylurea herbicide, such as Beacon® herbicide and Accent® herbicide following application of a soil insecticide such as DYFONATE II 15-G may result in crop injury. Follow the Directions for Use and Precautions contained on the sulfonylurea herbicide label.

GENERAL USE PRECAUTIONS

- Read all directions before using.
- Do not apply on any crop or in any manner not specified on this label.
- Do not rotate to carrots.
- Do not apply or allow drift to areas occupied by domestic animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling (i.e., attached booklet) under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

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.

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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 15-G. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than DYFONATE II 15-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!

DYFONATE® is a trademark of a ZENECA Group Company.
Accent® is a trademark of E. I. du Pont de Nemours & Co. (Inc.).
Beacon® is a trademark of CIBA-GEIGY Corporation.

**DYFONATE® II 15-G
Granular Insecticide**

Organophosphate

Soil Insecticide For Pest Control In a Variety of Crops

COMPLETE DIRECTIONS FOR USE

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AND LIMITATION OF WARRANTY AND LIABILITY**

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The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. 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 or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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11/07/99

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19897

20/29

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KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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(If you do not understand the label, find someone to explain it to you in detail.)

ACTIVE INGREDIENT:

O-Ethyl-S-phenylethylphosphonodithioate* 15.0%

INERT INGREDIENTS: 85.0%

Total 100.0%

Contains 15 pounds active ingredient per 100 pounds

*fonofos

EPA Reg. No. 10182-187

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: The active ingredient in DYFONATE® II 15-G granular insecticide (fonofos) is an organophosphate pesticide that inhibits cholinesterase. Symptoms of poisoning include headache, blurred vision, weakness, nausea, discomfort in the chest, abdominal cramps, vomiting, diarrhea, salivation, sweating, and pinpoint pupils.

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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. Refer person to medical personnel. 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.

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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: If cholinesterase inhibition is suspected, initial measures should include, if necessary, removal of secretions, maintenance of airway, assisted respiration, and atropine as the antidote. Atropine may be injected in large therapeutic doses as needed to abate symptoms and as tolerated by the patient. Pralidoxime chloride (2-Pam, Protopam) can also be used as adjunctive therapy. The material may continue to be absorbed, resulting in relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

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PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.
- Protective eyewear.
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not transport or store DYFONATE II 15-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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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.**

BEST AVAILABLE COPY

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Application of a sulfonylurea herbicide such as Beacon® herbicide and Accent® herbicide following application of a soil insecticide such as DYFONATE II 15-G may result in crop injury. Follow the Directions of Use and Precautions contained on the sulfonylurea herbicide label.

GENERAL USE PRECAUTIONS

- Read all directions before using.
- Do not apply on any crop or in any manner not specified on this label.
- Do not rotate to carrots.
- Do not apply or allow to drift to areas occupied by domestic animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Waterproof gloves.
- Shoes plus socks.
- Protective eyewear

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Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

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 15-G. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than DYFONATE II 15-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!

GAUGE SETTINGS AND CALIBRATION INSTRUCTIONS

NOTE: These settings should be used as starting points only. Continually check the amount of DYFONATE II 15-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.

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GAUGE SETTINGS DYFONATE II 15-G 8 OZ/1000 FT. OF ROW AND 15 OZ/1000 FT. OF ROW						
EQUIPMENT	SPEED IN MPH					
	4		6		8	
APPLICATION RATE: OUNCES PER 1000 FT. OF ROW	8	15	8	15	8	15
Kinze	10	19	15	26	21	33
Gandy bolt on bottom	21	27	24	33	28	38
Gandy snap-on bottom	21	27	25	33	28	38
Noble (round opening) - Old	14	23	19	31	24	36
Noble/White Planter (rectangular opening) - New	10	17	14	24	18	30
John Deere 4986 Maxi-Emerge II (adjustable knob dial-0-79)	19	35	29	49	37	58
John Deere 7000 Maxi-Emerge (Even) (0-10-20-30-40)	17	27	23	34	28	38
John Deere 7000 Maxi-Emerge (Odd) (5-15-25-35-45)	13	20	17	25	21	31
John Deere (metal box with 3 range settings and dial) Range/Notch	1/30	2/12	2/6	2/31	2/14	3/7
International Harvester - Old (one gauge per hopper) Gate/Dial	2/8	3/7	3/3	4/9	3/8	6/1
International Harvester - New (two gauges per hopper) Gate/Dial	2/1	3/2	2/7	4/5	3/3	6/2
Buffalo (with gauge)	11	21	17	28	23	32
Buffalo (fluted-roll feed-revolutions on hexagonal adjusting nut)	8	13	Uniform Flow at All Speeds			
Allis Chalmers (old)	7	12	Uniform Flow at All Speeds			
Allis Chalmers (new, with Noble metering unit)	11	18	15	25	19	31
Microband - Canaan Industries	--	18*	Uniform Flow at All Speeds			

* Number of teeth on sprockets. For additional rates/settings or for Double-Box units, contact Canaan Industries at 1-800-633-7560.

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	AP
ASPARAGUS	Up to 30 days prior to harvest	Symphylans (Suppression)	Broadcast: 20 to 27 pounds per acre. Max. of 27 lbs/year.	Recommended in California only. Reduce the rate proportionately for band treatments. Restricted-entry interval 48 hours.	Bro 15- to : sui app
BANANAS & PLANTAINS	At Planting and at 6 month intervals	Weevils	Broadcast: 0.67 ounce (18.9 grams) to 1.34 ounces (38 grams) in a 12-inch band around the base of each plant using suitable granular application equipment. Max. 2.68 ounces (76 grams)/year	Use the 1.34 ounce rate in plantations having a history of serious weevil damage. Max. 2.68 ounces (76 grams)/year. Restricted-entry interval 48 hours.	Bro 15- inte tow sea ext irrig with
BEANS, GREEN & DRY	Prior to Planting	Symphylans Wireworms Seed Corn Maggot	Broadcast: 13.4 pounds per acre. Broadcast: 27 pounds per acre. Broadcast: 13.4 to 27 pounds per acre. Max. of 27 lbs/A per season.	For symphylan control, reduce the rate proportionately for band treatments. Recommended for control of seed corn maggot in the Northwest U.S. only. Use the higher rate where population pressure is severe. Restricted-entry interval 48 hours.	Bro 15- inc of 2 tilla
BEANS, LIMA	Prior to Planting	Symphylans	Broadcast: 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	Reduce the rate proportionately for band treatments. Restricted-entry interval 48 hours.	Bro 15- inc of 2 tilla

BEST AVAILABLE COPY

age 12
 DYFONATE II 15-G Booklet
 DYF187B.RSN - RS-050694N

RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, and Cauliflower)	Prior to Planting or at Planting	Cabbage Maggot Symphylans	Broadcast: 27 pounds per acre. Broadcast: 13.4 pounds per acre. Max. of 27 lbs/A per season.	Not recommended in the Northwestern U.S. Reduce the rate proportionately for band treatments. Restricted-entry interval 48 hours.	<u>Broadcast:</u> Apply DYFONATE II 15-G prior to or at time of seeding or transplanting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
CORN-FIELD (Dent, Seed, Grain, Silage) SWEET, POPCORN	Prior to Planting or at Planting	Northern, Southern, and Western Corn Rootworm	Band: 8 oz. per 1000 linear feet.	May be used on conventional, minimum or conservation and no-till tillage systems.	<p><u>Band:</u> Apply DYFONATE II 15-G in a 7 inch wide band using a row bander directly behind the seed furrow opener and in front of the press wheels, or in a 7 inch wide band directly behind the press wheels using drag chains or spring tines to ensure incorporation. Under windy conditions the use of windshields is recommended to prevent drift. Some granules can fall into the open furrow without causing harm to the seed. However, to avoid stand reduction, do not make "in-furrow" applications of DYFONATE II 15-G.</p> <p><u>Broadcast:</u> Apply DYFONATE II 15-G prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.</p>
		Cutworms ¹	or Broadcast: 27 pounds per acre.	¹ With heavy infestations of cutworms, a sufficient number of larvae may survive the DYFONATE II 15-G treatment to cause damage to the corn. If this occurs, an insecticide rescue treatment with AMBUSH® insecticide or another insecticide registered for this use should be made to control these surviving larvae.	
		Suppression of White Grubs		DYFONATE II 15-G is recommended for control of seedcorn beetle in the Central & Midwestern corn growing areas only.	
		Seedcorn Maggot		Band applications of DYFONATE II 15-G will provide suppression of wireworms. Use the broadcast application for control.	
		Seedcorn Beetle		DYFONATE II 15-G is recommended for control of maize billbug in the Southeastern U.S. only.	
		Wireworms	Band: 16 oz. per 1000 linear ft.		
		Lesser Corn-Stalk Borer	Broadcast: 13.4 pounds per acre.		
		Symphylans	Broadcast: 27 pounds per acre.		
		Maize Billbug	Max. of 27 lbs/A per season.		
			Regardless of application method (prior to or at planting, cultivation, or over the whorl) do not exceed 27 lbs/A per season total.	Restricted-entry interval 48 hours.	

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RECOMMENDATIONS													
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS								
	At Cultivation	Northern, Southern, and Western Corn Rootworm	Band: 8 oz. per 1000 linear feet. Max. of 8 oz. per 1000 linear feet per season. Regardless of application method (prior to or at planting, cultivation, or over the whorl) do not exceed 27 lbs/A per season total.	Apply DYFONATE II 15-G when activity of rootworm larvae is first observed. Restricted-entry interval 48 hours.	<u>Band:</u> Apply DYFONATE II 15-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 hillers 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 (First Generation Only) Southwestern Corn Borer (First Generation Only)	Band: 4 - 8 oz. per 1000 linear feet. or Broadcast: 5 - 6.75 lbs/A.	Base rate on treatment thresholds determined by crop scouting. Consult state insect control recommendations for threshold treatment levels. <table border="0"> <tr> <td>Number of Borers</td> <td>% Infestation</td> </tr> <tr> <td><u>Per Plant (1)</u></td> <td><u>(2)</u></td> </tr> <tr> <td>≤ 2</td> <td>≤ 50%</td> </tr> <tr> <td>> 2</td> <td>> 50%</td> </tr> </table> (1) Number of borers per plant = average % infested plants multiplied by the average number of live borers per plant. Consult state recommendations for thresholds. (2) % infestation = % shot-hole. Consult state recommendations for % infestation thresholds. Thresholds may vary based on yield potential and crop value.	Number of Borers	% Infestation	<u>Per Plant (1)</u>	<u>(2)</u>	≤ 2	≤ 50%	> 2	> 50%	<u>Band or Broadcast:</u> Apply DYFONATE II 15-G over the corn rows so granules fall into the corn 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. Use lower rate when ≤ 2 borers per plant.
Number of Borers	% Infestation												
<u>Per Plant (1)</u>	<u>(2)</u>												
≤ 2	≤ 50%												
> 2	> 50%												

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RECOMMENDATIONS

CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
	Over The Whorl	European Corn Borer, Southwestern Corn Borer Reduction of Fall Armyworm Populations	Band: 8 oz. per 1000 linear feet. or Broadcast: 6.75 pounds per acre. Max. of 6.75 lbs/A per season. Regardless of application method (prior to or at planting, cultivation, or over the whorl) do not exceed 27 lbs/A per season total (4 lbs. active ingredient).	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. Restricted-entry interval 10 days.	<u>Band or Broadcast:</u> Apply DYFONATE II 15-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: 16 oz. per 1000 linear feet. Max. of 27 lbs/A per season.	Recommended in Florida only. Restricted-entry interval 48 hours.	<u>Band:</u> Apply DYFONATE II 15-G in a 2 inch wide band over the corn rows.
MINT	Prior to Planting	Symphylans	Broadcast: 13.4 pounds per acre Max. of 13.4 lbs/A per season.	Do not apply after May 15. Do not apply more than once per season. Restricted-entry interval 48 hours.	<u>Broadcast:</u> Incorporate into the soil using suitable tillage equipment prior to planting or on established planting prior to spring growth. Do not apply terbacil for at least 3 weeks before or after DYFONATE II 15-G application.
ONIONS, BULB	At Planting	Onion Maggot	In-Furrow: 8 oz. per 1000 linear feet. Max. of 8 oz. per 1000 linear feet per season.	Use only in soils containing 10% or more organic matter. Restricted-entry interval 48 hours.	<u>In-Furrow:</u> Apply DYFONATE II 15-G into the furrow at time of planting.

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
PEANUTS (Southeastern U.S.)	At early flowering or anytime up to 21 days before harvest as indicated by local recommendations	Southern Corn Rootworm, Granulate Cutworm Wireworms Lesser Cornstalk Borer Suppression of White Mold (<i>Sclerotium rolfsii</i>)	Band: 15 oz. per 1000 linear feet or Broadcast: 27 pounds per acre. Max. of 27 lbs/A per season.	For control of southern corn rootworm, granulate cutworm, and wireworms, apply DYFONATE II 15-G at early flowering or pegging. For control of lesser cornstalk borer, apply DYFONATE II 15-G at first signs of borer infestation after pegging begins. For heavy white mold infestations a suitable fungicide treatment is necessary. Do not harvest within 21 days after treatment. Restricted-entry interval 48 hours.	<u>Band:</u> Apply DYFONATE II 15-G in an 18 inch wide band. <u>Broadcast:</u> Apply DYFONATE II 15-G by air or ground equipment.
PEANUTS (Southwestern U.S.)	At pegging or anytime up to 21 days before harvest as indicated by local recommendations	Southern Corn Rootworm Wireworms Lesser Cornstalk Borer Burrowing Bug	Band: 15 oz. per 1000 linear ft. Band: 6 to 8 oz. per 1000 linear ft. Band: 8 to 15 oz. per 1000 linear ft. or Broadcast: 13.4 pounds per acre. Max. of 27 lbs/A per season.	Recommended for control of burrowing bug in Texas only. Do not harvest within 21 days after treatment Restricted-entry interval 48 hours.	<u>Band:</u> Apply DYFONATE II 15-G in an 18 inch wide band. <u>Band:</u> Apply DYFONATE II 15-G in a 14 inch wide band. <u>Band:</u> Apply DYFONATE II 15-G in an 18 inch wide band. <u>Broadcast:</u> Apply DYFONATE II 15-G and lightly incorporate into the soil with 1 to 2 inches of water.

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DYFONATE II 15-G Booklet
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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
POTATOES (Irish)	Prior to Planting or at Planting	Wireworms Symphylans	Subsurface Bands: 13.4 oz. per 1000 linear feet. or Broadcast: 27 pounds per acre. Broadcast: 13.4 pounds per acre. Max. of 27 lbs/A per season.	The use of subsurface bands is recommended in the Pacific Northwest only. This application will control light to moderate infestations of wireworms. Use the 27 pound per acre broadcast application for heavy infestations of wireworms. Restricted-entry interval 48 hours.	<u>Subsurface Bands:</u> Apply DYFONATE II 15-G in subsurface bands 3 to 4 inches on both sides of and 2 inches below the seed pieces. <u>Broadcast:</u> Apply DYFONATE II 15-G prior to or at time of planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.
RADISH	Prior to Planting or at Planting	Cabbage Maggot Symphylans	Broadcast: 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	For symphylan control, reduce the rate proportionately for band treatments. Restricted-entry interval 48 hours.	<u>Broadcast:</u> Apply DYFONATE II 15-G prior to or at time of planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.
STRAWBERRIES	Prior to Planting	Symphylans	Broadcast: 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	Restricted-entry interval 48 hours.	<u>Broadcast:</u> Incorporate into the soil using suitable tillage equipment prior to planting or transplanting. (For band treatments, reduce the rate proportionately.)

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RECOMMENDATIONS					
CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
SUGAR BEETS	Prior to Planting or at Planting	Sugar Beet Root Maggot	Band: 4.5 to 6.8 oz. per 1000 linear feet.	To avoid stand reduction, do not place DYFONATE II 15-G in direct contact with the seed.	<p>Band: Apply DYFONATE II 15-G in a 7 inch wide band over the sugar beet rows. Incorporate lightly into the soil using suitable tillage equipment.</p> <p>Broadcast: Apply DYFONATE II 15-G prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.</p> <p>Subsurface Band: Apply DYFONATE II 15-G in subsurface bands 3 to 4 inches on both sides of and 2 inches below the seed pieces.</p> <p style="text-align: right;">dk</p>
		Symphylans	Broadcast: 13.4 pounds per acre.	For symphylan control, reduce the rate proportionately for band treatments.	
		Wireworms	Broadcast: 27 pounds per acre. or Subsurface Band: 6.8 oz. per 1000 linear feet. Max. 27 lbs/A per season.	The use of subsurface bands is recommended in the Pacific Northwest only. This application will control light to moderate infestations of wireworms. Use the 27 lb. per acre broadcast rate for heavy infestations of wireworms.	
SWEET POTATOES					DO NOT APPLY MORE THAN 4 lbs active ingredient of DYFONATE II 15-G to sweet potatoes per growing season. = 26.5
	At Planting	Wireworms Flea Beetle Larvae (Suppression only) White-Fringed Beetle Larvae (Suppression only)	27 lbs/acre		Broadcast: Apply DYFONATE II 15-G at planting and incorporate into soil by discing.

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RECOMMENDATIONS

CROPS	APPLICATION METHOD	PESTS CONTROLLED	RATES OF DYFONATE II 15-G	REMARKS	APPLICATION DIRECTIONS
	Over The Top	Wireworms Flea Beetle Larvae (Suppression Only)	20 lbs/acre (Southeast region only) 27 lbs/acre (other regions)	<u>Southeast Region:</u> Alabama, Florida, Georgia, North Carolina, South Carolina, Tennessee and Virginia.	Apply DYFONATE II 15-G at root swell.
		White-Fringed Beetle Larvae (Suppression Only)	27 lbs/acre		
	<u>Split Application At Planting AND Over the Top</u>	White-Fringed Beetle Larvae (Suppression Only)	Southeast Region Only 13.4 lbs/acre at planting AND 13.4 lbs/acre at root swell	<u>Southeast Region:</u> Alabama, Florida, Georgia, North Carolina, South Carolina, Tennessee and Virginia	<u>Broadcast:</u> Apply DYFONATE II 15-G at planting and incorporate in soil by discing. In the second application, apply DYFONATE II 15-G at root swell.
TABLE BEETS	Prior to Planting	Cabbage Maggot Symphylans	Broadcast: 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	For symphylan control, reduce the rate proportionately for band treatment. Restricted-entry interval 48 hours.	<u>Broadcast:</u> Apply DYFONATE II 15-G prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.
TOBACCO	Prior to Bedding	Wireworms	Broadcast: 6.7 to 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	Restricted-entry interval 48 hours.	<u>Broadcast:</u> Apply DYFONATE II 15-G prior to bedding and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.
TOMATOES	Prior to Planting	Symphylans	Broadcast: 13.4 pounds per acre. Max. of 13.4 lbs/A per season.	Reduce the rate proportionately for band treatments. Restricted-entry interval 48 hours.	<u>Broadcast:</u> Apply DYFONATE II 15-G prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment.

NOTE: For all crops where APPLICATION METHOD is "Prior to Planting," results are best when application is made as close as possible to planting.

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