

DYFONATE® 10-G
Granular Insecticide

ACTIVE INGREDIENT:

O-Ethyl S-phenyl ethylphosphonodithioate* 10.0%

INERT INGREDIENTS: 90.0%
(Contains 10 pounds active ingredient per 100 pounds) 100.0%

*DYFONATE

KEEP OUT OF REACH OF CHILDREN

WARNING PRECAUCION AL USUARIO: SI USTEN NO LEE INGLES NO USE ESTE
AVISO PRODUCTA HASTA QUE LA ETIQUETA LE HAYA SIDO EXPLICADA AMPLIMENTE.

STATEMENT OF PRACTICAL TREATMENT

FOR PESTICIDE EMERGENCY

CALL A PHYSICIAN IMMEDIATELY: If a known exposure occurs, or if poisoning is suspected, do not wait for symptoms to develop. Immediately start the procedures given below and simultaneously contact a Poison Center, a physician, or the nearest hospital.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL (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.

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 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

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America.

_____ Lb. Net Wt. _____ Kg.

EPA Reg. No. 10182-180
EPA Est. No.

Made in U. S. A. by
(Roundel) Agricultural Products
ICI Americas Inc.
Wilmington, DE 19897

RS-050389A
ACCEPTED
JUN 21 1989
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-180

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.

For skin contact, flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before re-use.

For eye contact, immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to insure 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 and start mouth-to-mouth artificial respiration.

If breathing is difficult, give oxygen, preferably with a physician's advice. Get medical attention immediately.

INFORMATION FOR MEDICAL PERSONNEL

Initial measures include removal of secretions, maintenance of patient 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.

Do not transport or store DYFONATE 10-G with food or feed intended for human or animal consumption.

IN CASE OF SPILL

ISOLATE the spill. HOLD this package, other cargo and vehicles involved. IMMEDIATELY TELEPHONE (24-hour service) for emergency assistance 800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

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

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

Wash hands, arms, and face thoroughly with soap and water after handling spill 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 10-G with any food or feed intended for human or animal consumption/

Not for use or storage in or around the home

REENTRY STATEMENT

- Do not enter treated areas for 24 hours after application unless appropriate protective clothing is worn.
- 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® Agricultural insecticide on (date of application). Do not enter treated areas for 24 hours after application unless appropriate protective clothing is worn (or other reentry interval if your state has a more restrictive interval for this product). If accidental exposure occurs, follow the instructions below." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT given at the beginning of this label.)

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 by cleaning of equipment or disposal of waste. For guidance contact your regional office of the EPA. Apply this product only as specified on the label.

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.

INSECTS CONTROLLED

Black Cutworm	(<u>Agrotis ipsilon</u>)*
Burrowing Bug	(<u>Pangaeus bilineatus</u>)
Cabbage Maggot	(<u>Hylemya brassicae</u>)
Corn Leaf Aphid	(<u>Rhopalosiphum maidis</u>)
European Corn Borer	(<u>Ostrinia nubilalis</u>)
Fall Armyworm	(<u>Spodoptera frugiperda</u>)**
Garden Symphylan	(<u>Scutigereilla immaculata</u>)
Granulate Cutworm	(<u>Feltia subterranea</u>)
Greenbug	(<u>Schizaphis graminum</u>)
Lesser Cornstalk Borer	(<u>Elasmopalpus lignosellus</u>)
Maize Billbug	(<u>Sphenophorus maidis</u>)
Onion Maggot	(<u>Hylemya antiqua</u>)
Seed Corn Beetle	(<u>Agonoderus lecontei</u>)
Seed Corn Maggot	(<u>Hylemya cilicrura</u>)
Southwestern Corn Borer	(<u>Diatraea grandiosella</u>)
Sugarbeet Root Maggot	(<u>Tetanops myopaeformis</u>)
White Grubs	(<u>Phyllophaga sp.</u>)

FLEA BEETLES:

Elongate Flea Beetle	(<u>Systema elongata</u>)
Palestriped Flea Beetle	(<u>Systema blanda</u>)
Sweetpotato Flea Beetle	(<u>Chaetocnema confinis</u>)
Threespotted Flea Beetle	(<u>Disonycha triangularis</u>)

ROOTWORMS:

Northern Corn Rootworm	(<u>Diabrotica longicornis</u>)
Southern Corn Rootworm	(<u>Diabrotica undercimpunctata howardi</u>)
Western Corn Rootworm	(<u>Diabrotica virgifera</u>)

WIREWORMS:

Corn Wireworm	(<u>Melanotus communis</u>)
Pacific Coast Wireworm	(<u>Limonius canus</u>)
Southern Potato Wireworm	(<u>Conoderus falli</u>)
Sugar Beet Wireworm	(<u>Limonius californicus</u>)
Tobacco Wireworm	(<u>Conoderus vespertinus</u>)
Western Field Wireworm	(<u>Limonius infuscatus</u>)
Wheat Wireworm	(<u>Agriotes mancus</u>)
<u>Ctenicera lobata</u>	
<u>Dalopius pallidus</u>	

* (Suppression only)

** (Reduction of fall armyworm populations only)

DIRECTIONS FOR USE AND RECOMMENDATIONS

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

NOTE: Preplant broadcast applications should be mixed (incorporated) into the soil to a depth of 2 to 3 inches.

ASPARAGUS: (California only) For control of garden symphylans, apply 30 to 100 pounds DYFONATE 10-G per acre broadcast. (Reduce the rate proportionately for band treatments.) Incorporate into the soil using suitable tillage equipment. Do not apply within 30 days of harvest.

BEANS (Green & Dry): For control of garden symphylans and wireworms, apply 20 pounds (for symphylans) or 40 pounds (for symphylans and wireworms) DYFONATE 10-G per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.)

For control of seed corn maggot, (Northwestern U.S. only) apply 20 to 40 pounds DYFONATE 10-G per acre, broadcast on soil surface, prior to planting, and incorporate to a depth of 2 to 4 inches using suitable tillable equipment. Use the higher rate where population pressure is severe.

BEANS (Lima): For control of garden symphylans, apply 20 pounds DYFONATE 10-G per acre, broadcast, prior to planting, and incorporate into the soil using suitable tillage equipment. (Reduce rate proportionately for band treatments.)

COLE CROPS (BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER): For control of garden symphylans prior to and at time of seeding or transplanting, apply 20 DYFONATE 10-G per acre, broadcast, and incorporate into the soil using suitable tillage equipment. (Reduce rate proportionately for band treatments.)

CORN FIELD, SWEET AND POPCORN):

Note: May be used in corn grown for grain or silage.

- A. Band application for control of northern, southern and western corn rootworms, lesser cornstalk borer, seed corn beetle and seed corn maggot and for suppression of white grubs, wireworms and black cutworm (recommended for seed corn beetle in the central and midwestern corn growing areas only):

Apply in the rates recommended in the following table in a 6 to 8 inch band over corn rows 38 to 40 inches apart.

<u>INSECT</u>	<u>RATE PER ACRE</u>	<u>RATE PER 1000 LINEAR FEET.</u>
Corn rootworms	7-1/2 to	9 to 12 ounces
Seed corn beetle	10 pounds	
Seed corn maggot		

1. Band Application At Planting: Incorporate into the top 1/2 to 1 inch of soil by making application ahead of press wheels or by dragging a short length of chain behind the press wheels. Do not apply DYFONATE 10-G in-furrow. Do not place DYFONATE 10-G in direct contact with the seed.

OR

2. Band Application At Cultivation: Cover the treated band with 2 to 3 inches of soil by making application immediately ahead of disc hillers or cultivation equipment. Make application in May or June when activity of rootworm larvae is first observed. Not recommended for control of lesser cornstalk borer or for suppression of wireworms or black cutworm. Do not apply within 45 days of harvest nor feed or graze to livestock within 30 days of treatment.

- B. Broadcast application for control of symphylans, northern, southern, and western corn rootworms, wireworms and maize billbugs and for suppression of white grubs:

Apply 20 pounds (for symphylans) or 40 pounds (for symphylans, rootworms, white grubs, wireworms and maize billbugs) DYFONATE 10-G per acre prior to planting and incorporate into the soil using suitable tillage equipment. Recommended for billbugs in the Southeastern U.S. only.

- C. Band or broadcast application for control of European corn borer and southwestern corn borer, and to reduce fall armyworm populations:

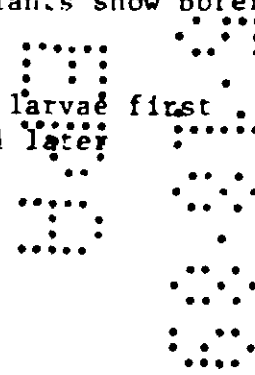
Apply 10 pounds DYFONATE 20-G per acre over the corn, so granules fall into whorls. May be applied broadcast using air or ground equipment, or in 6 to 8 inch bands over corn rows 3 inches or more apart.

Do not apply within 30 days of harvest nor feed or graze to livestock within 30 days of treatment.

1. European corn borer. For field and popcorn make application when 50% of the plants show first generation borer feeding. To control second generation corn borer, apply when field counts show 100 egg masses per 100 plants.

For sweet corn, make application when 15% of the plants show borer feeding in the whorl.

2. Southwestern corn borer. Apply when newly hatched larvae first appear. Repeat application as necessary to control later generations.



- D. Band application for control of wireworms in sweet corn grown on muck soils (Florida only).

Based on 36 inch row spacing, apply 20 pounds DYFONATE 10-G per acre in a 2 inch band over the furrow at planting. This is equivalent to 20 pounds DYFONATE 10-G per 14,520 linear feet of row (22 ounces per 1,000 linear feet of row).

MINT (PEPPERMINT, SPEARMINT): For control of garden symphylans apply 20 pounds DYFONATE 10-G per acre, broadcast, and 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 the DYFONATE 10-G application.

BULB ONIONS: For control of onion maggot, apply as a furrow treatment at time of planting. Based on a 20 inch row spacing apply at a rate of 10 pounds per acre (10 lbs. per 26,135 ft. of row; 1 lb. per 2,613 ft. of row; 3/8 lb. per 1,000 ft. of row). Use on organic soils only (soils containing 10% or more organic matter).

PEANUTS:

Southeastern U.S.

For control of lesser cornstalk borer, southern corn rootworm, granulate cutworm and suppression of white mold (southern blight), Sclerotium rolfsii, use 20 pounds DYFONATE 10-G per acre, in 18 inch bands on 36 inch rows

OR

40 pounds DYFONATE 10-G per acre, broadcast, by air or ground equipment. Apply at pegging. For lesser cornstalk borer, apply DYFONATE 10-G at first signs of borer infestation after pegging begins. For heavy white mold infestations, a suitable fungicide treatment is necessary. DYFONATE 10-G may be used up to 30 days after pegging begins.

For control of white mold, apply PCNB granular fungicide in sequence with DYFONATE 10-G. Apply using separate granular hopper boxes and placing one bonder directly behind the other. Refer to the PCNB label before using this combination.

Southwestern U.S.

For control of lesser cornstalk borer and southern corn rootworm, apply 20 pounds DYFONATE 10-G per acre in 18 inch bands on 36 inch rows. For lesser cornstalk borer only, 10 to 14 pounds DYFONATE 10-G per acre are recommended, applied in 14 inch bands on rows planted 32 or more inches apart.

All rates may be applied up to 30 days after pegging begins. For burrowing bug control, apply 10 to 20 pounds DYFONATE 10-G per acre in 18 inch bands on 36 inch rows - OR broadcast 20 pounds DYFONATE 10-G per acre. Lightly incorporate into the soil with 1 to 2 inches of water. Recommended for control of burrowing bug in Texas only.

POTATOES (IRISH):

- A. Broadcast application for control of garden symphylans and wireworms. Apply 20 pounds (for symphylans) or 40 pounds (for symphylans and wireworms) DYFONATE 10-G per acre, prior to planting and incorporate into the soil using suitable tillage equipment.
- B. Band application for control of wireworms (Pacific Northwest Only). Apply at planting 20 pounds DYFONATE 10-G per acre (34 inch row spacing) in subsurface bands 3 to 4 inches on both sides of and 2 inches below the seed pieces.

NOTE: For heavy wireworm infestations use the broadcast application only.

RADISH: For control of cabbage maggot and garden symphylans prior to and at time of seeding, apply 20 pounds DYFONATE 10-G per acre, broadcast, and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.)

SORGHUM (MILO):

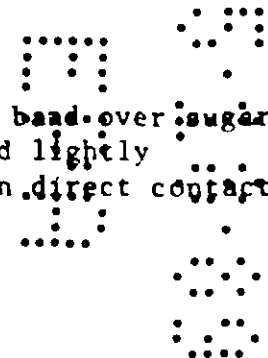
- A. Band application for control of northern, southern and western corn rootworms and lesser cornstalk borer: Apply 10 pounds of DYFONATE 10-G per acre (12 ounces per 1000 linear feet of row) in a 6-8 inch band at planting. Incorporate into the soil by making application ahead of press wheels or by dragging a short length chain behind the press wheels. Do not apply DYFONATE 10-G in furrow. Do not place DYFONATE 10-G in direct contact with the seed.
- B. (Texas Only) -- Over the top application for control of corn leaf aphid and greenbug. Apply 7.5 pounds DYFONATE 10-G per acre using aerial application equipment. Use only on irrigated sorghum. Do not apply within 14 days of harvest nor feed or graze to livestock within 14 days of application. Limit postemergence use to 2 applications per crop.

STRAWBERRIES: For control of symphylans apply 20 pounds per acre, broadcast, and incorporate into the soil using suitable tillage equipment prior to planting or transplanting. (Reduce rate proportionately for band treatments.)

SUGAR BEETS:

Band application for control of sugar beet root maggots:

Apply 10 to 15 pounds DYFONATE 10-G per acre in a 7 inch band over sugar beet rows 22 or more inches apart. Apply at planting and lightly incorporate into the soil. Do not place DYFONATE 10-G in direct contact with the seed.



Subsurface application for control of sugar beet root maggots;

(Recommended in the Big Horn Basin of Wyoming only) - apply 15 pounds DYFONATE 10-G per acre 2 inches from the seed furrow and 2 inches below the soil surface on the irrigated side of sugar beet rows spaced 22 or more inches apart (equivalent to 10-1/2 ounces DYFONATE 10-G per 1,000 linear feet of row). Do not place DYFONATE 10-G in direct contact with the seed.

Broadcast application for control of symphylans and wireworms:

Apply 20 pounds (for symphylans) or 40 pounds (for symphylans and wireworms) DYFONATE 10-G per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment.

SUGARCANE: For wireworms control apply 30 to 40 pounds (40 pounds outside of Florida) DYFONATE 10-G per acre in a 14 inch band on cane rows 60 inches apart. This is equivalent to 3.4-4.6 pounds of DYFONATE 10-G per 1,000 linear feet of row.

Apply over the tops of sugar cane seed pieces immediately ahead of covering discs.

For control of the white grub, Phyllophaga crinata, apply 40 to 60 pounds DYFONATE 10-G per acre in a 20 inch band on cane rows 60 inches apart. This is equivalent to 4.6-6.8 pounds of DYFONATE 10-G per 1,000 linear feet of row. Make application over the top of the cane row and lightly incorporate as close to plants as possible. For best results, irrigate after application. Application should be timed according to the flight of the adult beetles. Apply at any time from the peak of the adult flight up until after two weeks after flight peak. Recommended in the southwestern U.S. only.

SWEET POTATOES:

Southeastern U.S. -- For control of wireworms and flea beetle larvae, apply 40 pounds DYFONATE 10-G per acre, broadcast, at planting and incorporate into the soil by discing, or, apply 30 pounds DYFONATE 10-G over the top at swelling.

Other Growing Regions: For control of wireworms and flea beetle larvae apply 40 pounds DYFONATE 10-G per acre, broadcast, at planting and incorporate into the soil by discing, or, over the top at root swelling.

TABLE BEETS: For control of cabbage maggot and garden symphylans, apply 20 DYFONATE 10-G pounds per acre, broadcast, prior to planting. Incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.)

TOBACCO: For control of wireworms listed apply 10 to 20 pounds DYFONATE 10-G per acre, broadcast, prior to bedding and transplanting and incorporate into the soil using suitable tillage equipment.

TOMATOES: For control of garden symphylans, apply 20 pounds of DYFONATE 10-G per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (Reduce the rate proportionately for band treatments.)

GAUGE SETTINGS AND CALIBRATION INSTRUCTIONS

EQUIPMENT	<u>7.50 Pounds Per Acre</u>					<u>10 Pounds Per Acre</u>			
	<u>SPEED IN MPH</u>								
	3	4	5	6	7	3	4	5	6
AC	7					9			
Gandy	20	23	25	28	30	23	26	29	30
IH	1/8.5	2/2.0	2/6.0	3/0.0	3/5/0	2/1.5	2/7.0	3/3.5	3/3.5
*John Deere (old)	1/29	2/5	2/11	2/17	2/24	2/5	2/13	2/21	2/24
*John Deere (new)	15	20	23	26	30	20	24	28	30
*Noble (old)	14	19	23	27	30	19	24	29	30
*Noble (new)	11	13	16	18	18	13	16	19	20

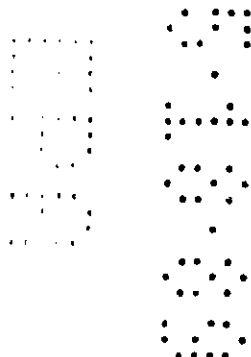
*John Deere and Noble have introduced new metering units into their late model machinery. Be sure to use the appropriate chart.

These are suggested beginning settings for application with one hopper-opening per row. Be sure to check actual application rate, under your operation conditions. Fill hoppers level full and plant a known area such as 0.8 acre ~~in one row~~ with furrow planter on 80-rod (1/4 mile) rows spaced 40 inches apart. Weigh bag, refill hoppers, weigh again, subtract to see how much was applied. Divide amount applied by area covered to get actual rate. EXAMPLE: If desired rate is 10 lbs./A, and you apply 8 pounds on 0.8 acre, actual rate is 10 lb./A because 8 divided by 0.8=10. If rate is not quite as desired, adjust up or down again. Or fasten a container (a bag or calibration tube) over the opening of your applicator, plant a known area. Divide the weight of the granules (in pounds) by the area covered (in acres) to get actual rate per acre. EXAMPLE: If you recover 8 pounds of granules in the container after covering 0.8 acre, actual rate is 10 pounds by 0.8, which equals 10 lbs./A.

disposal of excess pesticide, spray mixture 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.

NOTICE TO BUYER AND USER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label 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 use conditions, or under conditions not reasonably foreseeable to 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. 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.



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