



PM 14 51036-154
DEC 7 1993

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Morris Gaskins
MICRO-FLO CO.
P.O. Box 5948
Lakeland, FL 33807

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 05/27/93 in Response to PR Notice 93-7
EPA Reg. No. 51036-154
CHLORPYRIFOS 4-E INSECTICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

BEST AVAILABLE COPY



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

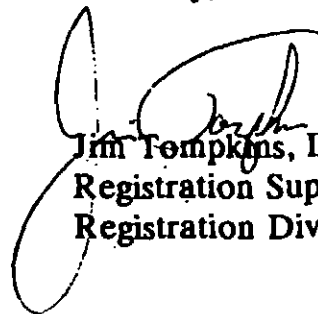
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

Draft labeling for WPS language in response to PR 93-7

DEC - 7 1993
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
51036-154

MICRO FLO
DYFONATE 2-G
ORGANOPHOSPHATE

ACTIVE INGREDIENT:

O-Ethyl S-phenyl ethylphosphonodithioate*	2.0%
INERT INGREDIENTS	98.0%
TOTAL	100.0%

* DYFONATE (Contains 2 lbs. Active Ingredient per 100 pounds)

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 this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT
Organophosphate

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. Call a physician or Poison Control Center.

FOR SKIN CONTACT: Wash with plenty of soap and water. Get medical attention.

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.

NOTE TO PHYSICIAN: This product contains a cholinesterase inhibitor. Initial measures include removal of secretions, maintenance of a patent airway, and if necessary, artificial respiration. When cyanosis is relived, 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.

This product is an organophosphorus ester that inhibits cholinesterase.

Manufactured By
MICRO FLO COMPANY
P.O. Box 5948
Lakeland, Florida 33807

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING

MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ON SKIN. CAUSES MODERATE EYE IRRITATION. AVOID INHALING DUST OF SPRAY MIST OR CONTACT WITH EYES OR SKIN OR CLOTHING.

PERSONAL PROTECTIVE EQUIPMENT

*Protective
Engineer*
Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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

5 of 6

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, 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.

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.

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.

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.

In case of a significant spill, call CHEMTREC 800/424-9300.

Read all directions before using.

Do not transport or store DYFONATE 2-G with food or feed intended for human or animal consumption.

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.

6 of 2

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, notification to workers, and restricted-entry intervals. 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) of 48 hours. The REI is 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:

1. Coveralls
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear

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

75112

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.

Do not transport or store DYFONATE 2-G with any food or feed intended for human or animal consumption.

Not for use or storage in or around the home.

Store in original container.

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.

APPLICATION INSTRUCTIONS

BEANS, GREEN AND DRY:

For control of garden symphylans and wireworms, apply 40 pounds (for symphylans) or 80 pounds (for symphylans and wireworms) DYFONATE 2-G per acre, broadcast, prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. For symphylan control reduce rate proportionately for band treatment.

For control of seed corn maggot, (Northwestern U.S. only) apply 40 to 80 pounds DYFONATE 2-G per acre, Broadcast on soil surface, prior to planting, and incorporate to a depth of 2 to 4 inches using suitable tillage equipment. Use the higher rate where population pressure is severe.

Limit seasonal application to 200 pounds of product per acre.

BEANS, LIMA:

For control of garden symphylans, apply 40 pounds DYFONATE 2-G per acre, broadcast, prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. Reduce rate proportionately for band treatments.

Limit seasonal application to 200 pounds of product per acre.

CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower):

For control of garden symphylans prior to and at time of seeding or

8 of 2

transplanting, apply 40 pounds per acre, broadcast, and incorporate into the soil to a depth of 2 to 3 inches. Reduce rate proportionately for band treatments.

Limit seasonal application to 200 pounds of product per acre.

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 wireworms and black cutworm (recommended for seed corn beetle in the Central and Midwestern corn growing areas only).

Apply 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	15 to 20 pounds	18 to 24 ounces
Seed corn beetle		
Seed corn maggot		
Wireworms	20 pounds	24 ounces
Black cutworms		
Lesser Cornstalk borer	40 pounds	44 ounces

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

Apply 40 pounds (for symphylans) or 80 pounds (for wireworms and maize billbugs) DYFONATE 2-G per acre prior to planting and incorporate into the soil by disking. Recommended for billbugs in the Southeastern U.S. only.

75F12

C. Band or broadcast application for control of European corn borer and southwestern corn borer: Apply 20 pounds DYFONATE 2-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 30 inches or more apart.

Do not apply within 45 days of harvest nor feed or graze to livestock within 30 days of treatment.

1. European corn borer. 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.

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 40 pounds DYFONATE 2-G per acre in a 2 inch band over the furrow at planting. This is equivalent to 40 pounds DYFONATE 2-G per 14,520 linear feet of row (44 ounces per 1,000 linear feet of row).

Limit seasonal application to 200 pounds per acre for broadcast rates. Limit seasonal application to 100 pounds per acre for banded applications.

MINT (Peppermint, Spearmint):

For control of garden symphylans apply 40 pounds per acre, broadcast, and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment prior to planting or on established plantings prior to spring growth. Do not apply terbacil for at least 3 week before or after the DYFONATE 2-G application. Do not apply after May 15. Do not apply more than once per season. Not for use in California.

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 20 pounds per acre (20 lbs. per 26,135 ft. of row, 2 lbs. per 2,613 ft. of row; 3/4 lb. per 1,000 ft. of row). Use on organic soils only (soils containing 10% or more organic matter).

Limit seasonal application to 100 pounds per acre.

PEANUTS: (Southeastern U.S.)

For control of lesser cornstalk borer, southern corn rootworm and suppression of white mold (southern blight), sclerotium rolfsii, use 40 pounds DYFONATE 2-G per acre, in 18 inch bands on 36 inch

rows.

OR

80 pounds DYFONATE 2-G per acre, broadcast, by air or ground equipment. Apply at pegging. For lesser cornstalk borer, apply DYFONATE 2-G at first signs of borer infestation after pegging begins. For heavy white mold infestations, a suitable fungicide treatment is necessary. DYFONATE 2-G may be used up to 30 days after pegging begins.

For control of white mold, apply PCNB granular fungicide in sequence with DYFONATE 2-G. Apply using separate granular hopper boxes and placing one bander 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 40 pounds DYFONATE 2-G per acre in 18 inch bands on 36 inch rows. For lesser cornstalk borer only, 20 to 28 pounds DYFONATE 2-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 20 to 40 pounds DYFONATE 2-G per acre in 18 inch bands on 36 inch rows.

OR

Broadcast 40 pounds DYFONATE 2-G per acre. Lightly incorporate into the soil with 1 to 2 inches of water. Recommended for control of burrowing bug in Texas only.

Limit seasonal application to 200 pounds per acre using broadcast rates. Limit seasonal application to 100 pounds per acre using banded rates (based on 36 inch row spacing).

POTATOES (Irish):

For control of garden symphylans and wireworms, apply 40 pounds (for symphylans) or 80 pounds (for symphylans and wireworms) DYFONATE 2-G per acre, broadcast, prior to planting and incorporating into the soil to a depth of 2 to 3 inches using suitable tillage equipment.

OR

For wireworm control in the Pacific Northwest only, apply at planting 40 pounds DYFONATE 2-G per acre (36 inch row spacing) in subsurface bands 3 to 4 inches on both sides of and 2 inches below the seed pieces.

Limit seasonal application to 200 pounds per acre at broadcast rates. Limit seasonal application to 100 pounds per acre at banded rates.

RADISH:

For control of cabbage maggot and garden symphylans prior to and at time of seeding, apply 40 pounds per acre, broadcast, and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. For symphylans control, reduce rate proportionately for band treatments.

Limit seasonal application to 100 pounds per acre.

STRAWBERRIES:

For control of symphylans apply 40 pounds per acre, broadcast, and incorporate into the soil using suitable tillage equipment prior to planting or transplanting. Not for use in California.

Limit seasonal application to 100 pounds per acre.

SUGAR BEETS:

BAND APPLICATION FOR CONTROL OF SUGAR BEET ROOT MAGGOTS: Apply 20 to 30 pounds DYFONATE 2-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 2-G in direct contact with the seed. Recommended in Colorado and the Northwest sugar beet growing areas only.

Limit seasonal application to 200 pounds per acre at broadcast rates. Limit seasonal application to 75 pounds per acre at banded rates.

SUBSURFACE APPLICATION FOR CONTROL OF SUGAR BEET ROOT MAGGOTS: (Recommended in the Big Horn Basin of Wyoming only) - apply 30 pounds DYFONATE 2-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 21 ounces DYFONATE 2-G per 1,000 linear feet of row). Do not place DYFONATE 2-G in direct contact with the seed.

BROADCAST APPLICATION FOR CONTROL OF SYMPHYLANS AND WIREWORMS: Apply 40 pounds (for symphylans) or 80 pounds (for symphylans and wireworms) DYFONATE 2-G per acre, Broadcast, prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. For symphylan control, reduce rate proportionately for band treatments.

Limit seasonal application to 200 pounds per acre.

SUGARCANE:

For wireworm control apply 40 to 60 pounds (60 pounds outside of Florida) DYFONATE 2-G per acre in a 14 inch band on cane rows 60 inches apart. Apply over the tops of sugar cane seed pieces immediately ahead of covering discs. This is equivalent to 4.5 - 7.0 pounds of DYFONATE 2-G per 1,000 linear feet of row.

12512
Limit seasonal application to 200 pounds per acre.

TABLE BEETS:

For control of cabbage maggot and garden symphylans, apply 40 pounds per acre, broadcast, prior to planting. Incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. For symphylian control, reduce rate proportionately for band treatment.

Limit seasonal application to 200 pounds per acre.

TOMATOES:

For control of garden symphylans, apply 40 pounds of DYFONATE 2-G per acre, broadcast, prior to planting and incorporate into the soil to a depth of 2 to 3 inches using suitable tillage equipment. Reduce rate proportionately for band treatments.

Limit seasonal application to 100 pounds per acre.

NOTICE - READ CAREFULLY

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 THE PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

BEST AVAILABLE COPY