

Reg # 51036-110

PM-14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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JAN 19 19935433213 311  
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Mr. Morris Gaskins  
Micro Flo Co.  
P. O. Box 5948  
Lakeland, FL 33807

Dear Mr. Gaskins:

Subject: Dimethoate 4E  
EPA Registration No. 51036-110  
Your Letter Dated December 21, 1992

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. Make the labeling changes listed below before you release the product for shipment:

- a. According to a review completed by the Health Effects Division on January 10, 1989 the pre-harvest interval for wheat can be listed as thirty five (35) days.
- b. In accordance with the March 1983 DIMETHOATE Pesticide Registration Standard, under the DIRECTIONS FOR APPLICATION - FIELD CORN, remove the statement "if bees are actively foraging in the treated areas." from the last sentence.

2. 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.

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

Sincerely yours,

Robert A. Forrest

Product Manager (14)

Insecticide-Rodenticide Branch  
Registration Division (H7504C)

CONCURRENCE

SYMBOL	SURNAME	DATE

Madden Disk #3, 1/5/93

Draft label in response to Agency letter of 12/15/92

2770  
ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

JAN 19 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
51036-110

DIMETHOATE 4E  
SYSTEMIC INSECTICIDE

ACTIVE INGREDIENT: Dimethoate (0,0-dimethyl S-(N-methyl-  
carbamolymethyl) phosphorodithioate) .....43.5%  
INERT INGREDIENTS:.....56.5%  
TOTAL.....100.0%

1 gallon contains 4 pounds Dimethoate

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Give one  
or two glasses of water and induce vomiting by touching back of  
throat with finger. Do not induce vomiting or give anything by  
mouth to an unconscious or convulsing person.

IF INHALED: If not breathing, give artificial respiration. Get  
medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention. IF  
ON SKIN: Wash off with soap and water and remove contaminated  
clothing and shoes. Get medical attention.

See Additional Precautionary Statements Inside

EPA Reg. No. 51036-110

EPA Est. No. 51036-GA-1

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. May cause eye injury. Harmful if absorbed through skin. May cause irritation of the nose and throat. Do not get into eyes. Avoid breathing the vapor or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Wash clothing before reuse.

NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Antidote is atropine.

Keep away from domestic animals and foodstuffs. Do not contaminate or apply onto feed or foodstuffs.

REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION: All applicators, flaggers and all personnel involved with the mixing, loading, and transferring operations must wear the protective clothing and equipment enumerated below. Pilots are exempt from this requirement. The protective clothing and equipment to be worn is as follows:

- a. Impermeable gloves (for example, rubber or plastic covered reinforced gloves).
- b. Boots or boot covers
- c. Long-sleeved shirt and long pants
- d. Wide-brimmed hat
- e. Respirators must be worn by flaggers and mixer/loaders. Wear goggles, face shield or safety glasses when applying or mixing pesticide.

ENVIRONMENTAL STATEMENTS

This product is toxic to wildlife and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or flame.

## DIRECTIONS FOR USE

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

## CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

## RE-ENTRY STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. 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. 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. Written or oral warnings must include the following information:

WARNING! Area treated with Dimethoate on (date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Dimethoate and describe his condition.

## STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Do not store below temperature of 32 degrees F., as it may tend to crystallize. Avoid storage above 90 degrees F., as prolonged storage above 90 degrees F. may cause some loss in grade. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### **DIRECTIONS FOR APPLICATION**

This product is intended for use by the commercial grower or commercial applicator in conventional hydraulic sprayers, ground applicators or airplane sprayers. Do not apply when weather conditions favor drift of spray from areas treated. Repeat applications as necessary unless otherwise specified. Consult your state experiment station or state extension service for proper timing of applications.

Dimethoate 4E has systemmic and contact activity against a broad spectrum of piercing, sucking and chewing insects; however, it may not control certain organophosphate resistant species.

For proper mixing spray tank should be at least three-quarters filled with water before adding Dimethoate 4E. Mechanical agitation or recirculation through pump bypass to tank is usually sufficient for maintaining a good dispersion.

Spray tank mixtures of Dimethoate 4E with alkaline insecticides and fungicides should be applied promptly.

**AERIAL APPLICATION:** Apply at least one gallon of finished spray per acre. Apply at least 5 gallons finished spray per acre in California.

**AUTOMATIC FLAGGING DEVICES SHOULD BE USED WHENEVER FEASIBLE.**

**IF HUMAN FLAGGERS ARE EMPLOYED THEY MUST WEAR THE PROTECTIVE CLOTHING AND RESPIRATOR SPECIFIED ON THIS LABEL.**

**GROUND APPLICATION:** Use water for dilution and apply at least 5 gallons of finished spray per acre.

**NOTE:** Pre-Harvest Interval days indicated in ( ) after each use.

#### **FRUIT**

##### **APPLES: (28)**

Apple maggot+, Codling moth+\* - 1 pt./100 gals. water. Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Apply at petal fall and every 10 to 14 days thereafter until control is achieved. Do not graze livestock in treated orchards.

+Under heavy infestations, some sting injury may occur.

+\*Midwest and eastern states only.

APPLES, PEARS: (28)

Aphids, Leafhoppers, Mites (except rust mites) - 1/2 to 1 pt./100 gals. water. Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not graze livestock in treated orchards.

GRAPEFRUIT, LEMONS, ORANGES, TANGERINES: (15)

Aphids - Ground Equipment: 1/2 to 1 pt./100 gals. water. Apply as an outside coverage spray. Aircraft equipment: 1 to 2 qts./acre in 5 to 10 gals. water.

Mites (except rust mites) - Ground Equipment: 1/2 to 1 pt./100 gals. water. Apply as a thorough distribution coverage spray.

Thrips - Ground Equipment: 1/2 to 1 pt./100 gals. water. Apply as a mist spray. Aircraft Equipment: 1 to 2 qts./acre in 5 to 10 gals. water.

Whiteflies - Ground Equipment: 1 pt./100 gals. water. Apply as a thorough distribution coverage spray.

Scales (except black or snow) - Ground Equipment: 1 to 1 1/2 pts./100 gals. water. Apply as a thorough coverage spray.

NOTE: When using high rate for scale control, Pre-Harvest Interval is 45 days.

Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not use on citrus seedlings. Make no more than 2 applications to mature fruit. Do not enter treated groves within 4 days of last application. Do not graze livestock in treated orchards.

NUTS

PECANS: (21)

Aphids, mites, leafhoppers - Ground Equipment: 2/3 pt./acre.

Aerial Equipment: 2/3 pt./acre in a minimum of 5 gals. of finished spray. Do not graze livestock in treated groves.

VEGETABLE CROPS

BEANS (GREEN, LIMA, SNAP, DRY): (0)

Aphids, grasshoppers, leafhoppers, leaf miners, lygus bugs, mites, bean leaf beetle, Mexican bean beetle - 1/2 to 1 pt./acre. Do not feed treated vines. Do not apply if the crop or weeds in the treatment area are in bloom.

BROCCOLI, CAULIFLOWER: (7)

Aphids - 1/2 to 1 pt./acre.

CABBAGE: (3)

Aphids - 1/2 to 1 pt./acre.

HEAD LETTUCE: (7)

Aphids, leafhoppers, leaf miners - 1/2 pt./acre.

**CELERY (Florida): (7)**

Leaf miners - Ground Equipment: 1 pt./acre.

**LEAF LETTUCE, SPINACH, COLLARDS, KALE, TURNIP (GREENS AND ROOTS), MUSTARD GREENS, SWISS CHARD, ENDIVE (ESCAROLE): (14)**

Aphids, leafhoppers, leaf miners - 1/2 pt./acre.

**MELONS (EXCEPT WATERMELONS): (3)**

Aphids, leafhoppers, leaf miners, thrips - 1 pt./acre.

**WATERMELONS: (3)**

Aphids, leaf miners, leafhoppers - 1/2 to 1 pt./acre.

**LUPINE: (0)**

Aphids, Lygus bugs - 1/2 to 1 pt/acre. Apply when aphids first appear. Make only 2 applications per season. Do not feed or graze forage or hay. Do not apply if crop or weeds in the treatment area are in bloom.

**PEAS, LENTILS: (0)**

Aphids - 1/3 pt./acre. Do not feed or graze hay within 21 days after last application. Do not make more than one application per season.

Do not apply if crop or weeds in the treatment area are in bloom.

**PEPPERS: (0)**

Aphids, leaf miners, maggots - 1/2 to 2/3 pt./acre.

**POTATOES: (0)**

Aphids, grasshoppers, leaf miners, leafhoppers - 1/2 to 1 pt./acre.

**TOMATOES: (7)**

Aphids, leaf miners, leafhoppers - 1/2 to 1 pt./acre. Where cabbage worms and cabbage loopers are a problem, the above rates of Dimethoate 4EC are compatible with Endosulfan or Malathion. Use in accordance with the manufacturers' directions for control of these insects.

**FIELD CROPS****ALFALFA: (10)**

Aphids, grasshoppers, leafhoppers, lygus bugs, reduction of alfalfa weevil larvae - 1/2 to 1 pt./acre. Do not apply if the crop or weeds in the treatment area are in bloom. Do not apply within 10 days of pasturing. Make only one application per cutting. Effective only on cutting to which applied.

**FIELD CORN: (14)**

Banks grass mites (excluding Trans-Pecos area of Texas), aphids, bean beetle, corn rootworm adult - 2/3 to 1 pt./acre.

Grasshoppers - 1 pt./acre.

Ground Application: Apply above rate in 20 to 40 gals. of water per acre.

Aerial Application: Apply above rate in 1 or more gals. of water per acre.

Apply as necessary. Make no more than three applications per year. Do not feed or graze within 14 days of last application. Do not apply to corn during the pollen shed period if bees are actively foraging in the treated areas.

**COTTON (Except Arizona and California): (14)**

Aphids, mites, thrips, fleahoppers - 1/4 to 1/2 pt./acre.

Lygus bugs - 1/2 pt./acre. Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields.

Note: Pre-Harvest Interval is 40 days if pure refined vegetable oil is used for dilution. Make only 2 applications per season at the higher rate. Apply at least one quart of finished spray/acre. Do not feed treated forage or graze livestock on treated fields.

**COTTON (GROWN IN CALIFORNIA AND ARIZONA): (14)**

Lygus bugs, leafhoppers black fleahoppers - 1/2 to 1 pt./acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate. Do not feed treated forage or graze livestock on treated fields.

**SAFFLOWER (GROWN IN CALIFORNIA AND ARIZONA): (14)**

Aphids, leafhoppers, Lygus bugs, Thrips - 1/2 to 1 pt./acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.

**SORGHUM (MILO): (28)**

Aphids - 1/2 to 1 pt./acre.

Banks grass mites (excluding Trans-Pecos area of Texas) - 1 pt./acre.

Grasshoppers - 1 pt./acre.

Sorghum midge - 1/4 to 1/2 pt./acre.

Aerial application: Apply above rates in 1 or more gals. of water per acre. Do not feed or graze within 28 days of last application. Make no more than 3 applications as needed per season. Do not apply after heading.

**SOYBEANS: (21)**

Mexican bean beetle, spider mites, bean leaf beetle - 1 pt./acre.

Grasshoppers - 1 pt./acre.

Ground application: Apply above rate in 25 to 40 gals. of water per acre.

Aerial Application: Apply above rate in 1 or more gals. of water per acre. Do not feed or graze within 5 days of last application.



**WHEAT: (60)**

Aphids (greenbugs) - 1/2 to 3/4 pt./acre.

Brown wheat mite - 1/3 to 1/2 pt./acre.

Grasshoppers - 3/4 pt./acre. Do not apply within 14 days of grazing immature plant.

**SEED CROPS**

**ALFALFA:**

Aphids, leafhoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae - 1/2 to 1 pt./acre.

Do not apply if the crop or weeds in the treatment area are in bloom. Do not feed or graze livestock in treated crops, hay, threshings or stubble within 10 days of application.

**ATTENTION: DO NOT USE ON SEED ONIONS, SEED CARROTS, OR SEED BERMUDA GRASS.**

**OUTDOOR ORNAMENTAL PLANTS  
(GROUND APPLICATION ONLY)**

Dimethoate 4E is generally effective in controlling aphids, thrips, leaf miners, scales, leafhoppers and mites. Make adequate spray when pests appear or when damage is first observed. Do not overdose or overspray. For proper timing of treatments for the control of specific pests on ornamental plants, consult your state agricultural experiment station or state agricultural extension service.

Do not use on ornamental plants not listed. Do not use on any ornamental stock plants grown as a source of propagation material, such as cuttings, layers, root stocks or scions for grafting or budding. Do not use in spray mixtures containing oil. Do not use on plants growing in greenhouses.

**AZALEAS:**

Lace Bugs, Leaf Miners, Mites, Tea Scale and White Flies - 1 Teaspoonful per gallon of water.

**CAMELLIAS:**

Aphids, Camellia Scale and Tea Scale - 1 Teaspoonful per gallon of water.

**ROSES:**

Leafhoppers and Thrips - 1 Teaspoonful per gallon of water.

**Foliar spray:** Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after the first growth begins in the Spring.

**Soil Drench:** Apply as a soil drench around the base of plants in early spring at the rate of 2 Tablespoons per gallon of water per plant.

**BIRCH:**

Aphids and Leafminers - 1/2 Teaspoonful per gallon of water. For leafminers, apply when leaves are expanded and repeat in 6 weeks.

**BOXWOOD:**

Leafminers, Mealy Bugs and Mites - 1 Teaspoonful per gallon of water. For leafminers, apply in spring when leaf miner flies first appear or in early summer for control of larvae.

**GLADIOLUS:**

Aphids and Thrips - 1 Teaspoonful per gallon of water.

**HEMLOCKS:**

Mites and Scales - 1 Teaspoonful per gallon of water.

**EUONYMUS:**

Aphids and Scales - 1 Teaspoonful per gallon of water.

**PINE JUNIPER:**

Mites, Aphids, Bagworms, European Pine Shoot Moth, Nantucket Pine Tip Moth and Zimmerman Pine Moth - 2 Teaspoonfuls per gallon of water.

**CONDITIONS OF SALE**

All statements concerning the use of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.