



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

SEP 17 1993

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

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

SUBJECT: Label Amendment Submission of 05/24/93 in Compliance
with PR Notice 93-7
EPA Reg. No. 51036-192
MICRO FLO DIMETHOATE 2.67 EC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460-0001

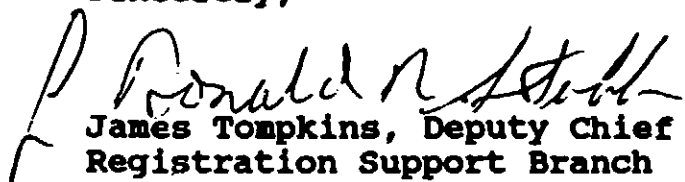
Hand or courier deliveries of final labels may be made to:

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

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text" must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,


James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (H7505W)

MICRO-FLO CO.
MICRO FLO DIMETHOATE 2.67 EC
51036-192 05/24/93

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

Add "aircraft" to the Engineering Control Statement; there is no prohibition against using aircraft on the current label.

The Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

Delete the REI exception statement from the Agricultural Use Requirements box. Follow the instructions on page 36 of the Main Label Guidance for placement of crop-specific REIs.

The Non-Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

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

MICRO FLO
DIMETHOATE 2.67 EC
ORGANOPHOSPHATE

ACTIVE INGREDIENT:

Dimethoate (0,0-Dimethyl-S-(N-(methylcarbamoyl) methyl] phosphorothioate).....	30.5%
INERT INGREDIENTS*.....	69.5%
TOTAL.....	100.0%

*Contains xylene range aromatic solvent
Contains 2.67 lbs. Dimethoate per gallon.

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.)

NOT FOR USE OR STORAGE IN OR AROUND HOME

STATEMENT OF PRACTICAL TREATMENT
Organophosphate

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. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN: Wash off immediately with soap and water and remove contaminated clothing and shoes. Get medical attention.

This product is an organophosphorus ester that inhibits cholinesterase.

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

EPA Reg. No. 51036-192

EPA Est.No. 51036-GA-1

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

ACCEPTED
with COMMENTS
in EPA Letter Dated
SEP 17 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
51036-192

**PRECAUTIONARY STATEMENTS
Hazards To Humans And Domestic Animals**

WARNING

Harmful or fatal if inhaled or swallowed or absorbed through skin. May cause irritation of eyes, nose, throat and skin. Avoid contact with eyes and skin. Avoid breathing vapor or spray mist. In case of contact, flush with plenty of water for at least 15 minutes. Get medical attention. Keep away from domestic animals and foodstuffs. Do not contaminate or apply onto feed or foodstuffs.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves, such as barrier laminate or viton
- 3. Shoes plus socks
- 4. Protective eyewear
- 5. Chemical-resistant headgear for overhead exposure

Mixers and loaders must wear:

- 1. Longs-sleeved shirt and long pants
- 2. Chemical-resistant gloves, such as barrier laminate or viton
- 3. Shoes plus socks
- 4. Protective eyewear
- 5. Chemical-resistant headgear
- 6. For exposure in enclosed areas, use 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)

For exposure outdoors, use a 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.

Engineering Controls:

Human flaggers must be in enclosed cabs. The enclosed cabs must be used 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 RECOMENDATIONS

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

ENVIRONMENTAL HAZARDS

This pesticide 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 when disposing of equipment washwaters.

This pesticide 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. Protective information may be obtained from your Agricultural Extension Service.

PHYSICAL OR CHEMICAL HAZARDS

Combustible liquid and vapor.

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 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 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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

EXCEPTION: The REI for citrus and grapes is 4 days.

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. Chemical-resistant gloves, such as barrier laminate or viton
3. Shoes plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children, pets and other unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

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. Open dumping is prohibited.

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 instruction, 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.

CHEMIGATION PROHIBITION

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

DIRECTIONS FOR APPLICATIONS

Dimethoate 2.67 E is a clear liquid. When added to water, it will disperse readily and will remain physically stable with a MINIMUM AMOUNT OF AGITATION.

APPLICATION EQUIPMENT: Dimethoate 2.67E can be applied by any pressure sprayer that will give uniform distribution of the spray such as ground sprayers, aerial sprayers or portable sprayers.

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

GROUND APPLICATION: Apply in sufficient water for good coverage unless otherwise stated. Avoid drift to adjacent crops.

NOTE: Pre-harvest interval days indicated in () after each crop.

FRUIT

APPLES, PEARS (28):

Aphids, Leafhoppers, Mites (except rust mites): Apply 3/4 to 1 1/2 pints per 100 gallons water.

Do not apply when trees or substantial number of weeds in orchard are in bloom.

Do not graze livestock in treated orchards.

CITRUS (GRAPEFRUIT, LEMONS, ORANGES, TANGERINES) (15):

Aphids: Ground - Apply 3/4 to 1 1/2 pints per 100 gallons water. Apply as an outside coverage spray. Aircraft - 3 to 6 pints per acre in sufficient water to achieve full coverage.

Mites (except rust mites): Ground - Apply 3/4 to 1 1/2 pints per 100 gallons water. Apply as a thorough distribution coverage spray.

Scales (45): (except black or snow) Ground Apply 1 1/2 to 2 pints per 100 gallons water. Apply as a thorough coverage spray.

Thrips: Ground - Apply 3/4 to 1 1/2 pints per 100 gallons water. Apply as a mist spray. Aircraft - Apply 3 to 6 pints per acre.

Whiteflies - Ground - Apply 1 1/2 pints per 100 gallons water. Apply as a thorough distribution coverage spray.

Do not graze livestock in treated orchards.

Do not apply when trees or substantial number of weeds in the grove are in bloom.

Do not use on citrus seedlings. Make no more than 2 applications to mature fruit.

CITRUS (NON-BEARING) AND NURSERY STOCK (CALIFORNIA AND ARIZONA):

Thrips, Aphids: Foliar spray, 1 1/2 pints per 100 gallons water. Repeat applications as necessary.

Do not apply to trees that will bear fruit within one year.

Do not enter treated groves within 4 days of last application.

Soil drench - (Trees 1 to 3 years old) 3 quarts per acre applied in the furrow or basin around the base of the tree. Apply when insect injury to new growth appears. Do not apply to trees that will bear fruit within one year. Dimethoate 2.67EC should be used only on nursery stock and nonbearing trees.

Do not apply in the year trees begin to bear a crop.

Consult your State Agricultural Experiment Station or State Agricultural Extension Service for proper timing of applications.

NUTS

PECANS (21):

Aphids, Mites, Leafhoppers: Ground only - Apply 1 pint per acre. Do not graze livestock in treated groves.

VEGETABLE CROPS

REMINDER: Preharvest interval days indicated in () following crops.

BEANS (GREEN, LIMA, SNAP, DRY) (1):

Aphids, Leafhoppers, Leaf Miners, Mites, Lygus Bugs, Lygus Bugs, Bean Leaf Beetle, Mexican Bean Beetle Grasshoppers: Apply 3/4 to 1 1/2 pints per 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: Apply 3/4 to 1 1/2 pints per acre.

CABBAGE (3):

Aphids: Apply 3/4 to 1 1/2 pints per acre.

HEAD LETTUCE (14):

Aphids, Leafhoppers, Leaf Miners: Apply 3/4 pints per acre.

LEAF LETTUCE, SPINACH, COLLARDS, KALE, TURNIP (GREEN AND ROOTS), MUSTARD GREENS, SWISS CHARD, ENDIVE (ESCAROLE) (14): Aphids, Leafhoppers, Leaf Miners: Apply 3/4 pint per acre.

MELONS (EXCEPT WATERMELONS) (3):

Aphids, Leaf Miners, Leafhoppers, Thrips: Apply 1 1/2 pints per acre.

WATERMELONS (3):

Aphids, Leaf Miners, Leafhoppers: Apply 3/4 to 1 1/2 pints per acre.

PEAS, Lentils (1):

Aphids: Apply 1/2 pint per acre.

Do not feed or graze hay within 21 days after last application when stationary viner is used.

Do not feed or graze when a mobile viner is used.

Do not make more than one application per season.

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

PEPPERS (1):

Aphids, Leaf Miners, Maggots: Apply 3/4 to 1 pint per acre.

POTATOES (1):

Aphids, Leaf Miners, Leafhoppers: Apply 3/4 to 1 1/2 pints per acre.

TOMATOES (7):

Aphids, Leaf Miners, Leafhoppers, Grasshoppers: Apply 3/4 to 1 1/2 pints per acre. Where cabbage worms and cabbage loopers are a problem, the above rates of Dimethoate are compatible with Endosulfan, Malathion. Use in accordance with the manufacturer's directions for control of these insects.

FIELD CROPS

REMINDER: Preharvest interval days indicated in () after each crop.

ALFALFA (10):

Aphids, Leafhoppers, Lygus bugs, Grasshoppers, reduction of Alfalfa weevil larvae: Apply 3/4 to 1 1/2 pints per acre.

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

Do not apply within 10 days of harvest or pasturing.
Make only one application per cutting.
Effective only on cutting to which applied.

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

Lygus bugs, Leafhoppers, Black Fleahoppers: Apply 3/4 to 1 1/2 pints per 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.

COTTON (except California and Arizona) (14):

Aphids, Mites, Thrips, Fleahoppers: Apply 1/3 to 2/3 pint per acre.

Repeat applications should not be made at intervals closer than 14 days.

Do not feed treated forage or graze livestock on treated fields.

COTTON (Oklahoma, Texas) (14):

Fleahoppers - 1/3 to 2/3 pints per acre.

Repeat applications should not be made at intervals closer than 14 days.

Do not feed treated forage or graze livestock on treated fields.

FIELD CORN (14):

Banks Grass Mites, Aphids, Bean Beetle, Corn Rootworm Adult (excluding Trans Pecos area of Texas): 2/3 to 1 pint 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.

Grasshoppers: 1 pint per acre.

SAFFLOWER (CALIFORNIA AND ARIZONA) (14):

Aphids, Leafhoppers, Lygus bugs, thrips: Apply 3/4 to 1 1/2 pints per acre.

Repeat applications should not be made at intervals closer than 14 days.

Make only 2 aerial applications or 2 ground applications as needed per season.

SORGHUM (MILO): (28)

Aphids, Banks Grass Mites (except Trans Pecos area of Texas), Spidermites: Apply 3/4 to 1 1/2 pints per acre.

Make no more than 3 applications per season.

Do not apply after heading.

Grasshoppers: 1 pint per acre.

SOYBEANS (21):

Mexican Bean Beetle, Spider Mites, Bean Leaf Beetle, Leafhoppers, Three-cornered Alfalfa Hopper: Apply 1 3/8 pint per acre.
Do not feed or graze within 5 days of last application.

WHEAT (45):

Aphids (green bug): Apply 3/4 to 1 pint per acre.
Brown Wheat Mite: Apply 1/3 to 2/3 pints per acre.
Grasshoppers: Apply 1 pint per acre
Do not apply within 14 days of grazing immature plant.
Do not harvest grain within 35 days of last application.
Do not make more than 2 applications per season.

SEED CROPS**ALFALFA: (10)**

Aphids, Leafhoppers, Lygus bugs, Grasshoppers, reduction of Alfalfa Weevil larvae: Apply 3/4 to 1 1/4 pints per acre.
Do not apply if the crop or weeds in the treatment areas are in bloom.
Do not feed or graze livestock on treated crop, hay threshings or stubble within 10 days of application.

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

Dimethoate 2.67 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 - 2 Teaspoonsful per gallon of water.

CAMELLIAS:

Aphids, Camellia Scale and Tea Scale - 2 Teaspoonsful per gallon of water.

ROSES:

Leafhoppers and Thrips - 2 Teaspoonsful 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 4 Tablespoonsful per gallon of water per plant.

BIRCH:

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

BOXWOOD:

Leafminers, Mealy Bugs and Mites - 2 Teaspoonsful 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 - 2 Teaspoonsful per gallon of water.

HEMLOCKS:

Mites and Scales - 2 Teaspoonsful per gallon of water.

EUONYMUS:

Aphids and Scales - 2 Teaspoonsful per gallon of water.

PINE AND JUNIPER:

Mites, Aphids, Bagworms, European Pine Shoot Moth, Nantucket Pine Tip Moth and Zimmerman Pine Moth - 4 Teaspoonsful 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.