

Print

51036-73

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Lee Tharrington  
Registrations Assistant  
Micro Flo Company  
P.O. Box 5948  
Lakeland, FL 33807

Dear Mr. Tharrington:

Subject: Dibrom 8 EC  
EPA Registration No. 51036-73  
Submission of CSF and label dated 2/3/95

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Submit one copy of your final printed labeling before you release the product for shipment.

The Confidential Statement of Formula (CSF), referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. A copy of the CSF (Basic Formulation) dated 2/2/95, has been placed in our file for the subject product.

Sincerely yours,

RAF

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

Enclosure

Edwards

A/51036-73.3

3/3/95

DIBROM 8EC INSECTICIDE  
ORGANOPHOSPHATE

ACTIVE INGREDIENTS:

Naled (1,2-dibromo-2,2-dichloroethyl dimethyl phosphate... 58.00%  
INERT INGREDIENTS: ..... 42.00%  
TOTAL ..... 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

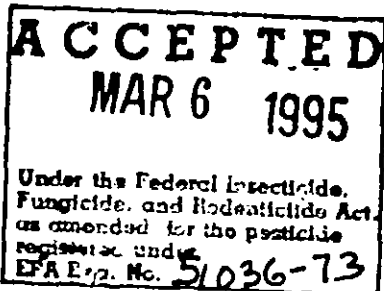
This product is an organophosphorus ester that inhibits cholinesterase.

NOTE TO PHYSICIAN: Naled is a cholinesterase inhibitor. Atropine is antidotal. 2-PAM is also antidotal and may be used in conjunction with atropine. Mucosal damage may occur, and if gastric lavage is indicated, it should be performed cautiously.

See Side Panels For Additional Precautionary Statements

EPA Reg. No. 51036-73  
AD 011795

EPA Est. No. 51036-GA-1



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

PRECAUTIONARY STATEMENTS

## Hazards To Humans And Domestic Animals

### DANGER

Corrosive. Causes irreversable eye damage. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. May be fatal if swallowed, inhaled or absorbed through the skin. Do not breathe spray mist.

### 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 F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure
6. Chemical resistant apron when cleaning equipment, mixing, or loading
7. 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)

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 seperately from other laundry.

### Engineering Control:

Human flaggers must be in enclosed cabs. 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:

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 fish, aquatic invertebrates, and wildlife. 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. Aquatic invertebrates, shrimp and crabs may be killed at recommended application rates. Do not apply to tidal or marsh waters which are important shrimp producing areas.

Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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

#### PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE, KEEP OUT OF REACH OF CHILDREN.

DO NOT USE OR STORE near heat, open flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. Clean up spills immediately. Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85°F. DO NOT heat this container. Replace cap and bung. Emptied container still contains hazardous or explosive vapor or liquid.

#### 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.

#### 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 enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

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 over long-sleeved shirt and long pants]
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE: Store in a cool, dry place. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Not for use or storage in or around the home. Do not store diluted spray.

PESTICIDE DISPOSAL: This product is 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.

#### CHEMIGATION PROHIBITION

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

#### APPLICATION

USE DESIGNATED AMOUNT OF PRODUCT IN THE FOLLOWING GALLONS WATER PER ACRE UNLESS OTHERWISE NOTED.

#### GROUND APPLICATION -

Vegetable and Field Crops - 30 to 250 gallons.

Cotton - 3 to 20 gallons.

Deciduous Fruit Crops- 60 to 800 gallons.

Citrus - 400 to 3,000 gallons.

(On young Fruit Plantings - Use a minimum of 15 gallons per acre).

Where Recommended for AIR APPLICATION - Field Crops - 3 to 10

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gallons. Begin application at first sign of insects. Repeat as necessary. Do not apply within 4 days of harvest unless otherwise noted. Do not use with highly alkaline materials such as lime or bordeaux.

**MIXING DIRECTIONS:** Add to spray tank when 1/4 to 1/2 full with agitator running and maintain agitation until spraying is completed.

**ALFALFA:**

Grasshopper - 3/4 pint per acre when crop is not more than 12" high.

Aphids, Loopers, Leafhoppers, Lygus Bugs, Alfalfa Webworms, Armyworms - 1 pint per acre.

**ALFALFA (seed):**

Lygus, Mite Suppression (1 application), Mites (2 applications at 7 day intervals).

Thrips - 1/2 pint per acre. Combine with recommended chemicals for residual control.

BY AIR - Use at least 10 gallons water per acre.

**BEANS (Dry or Field), SOYBEANS, LIMA BEANS AND PEAS for Processing:**  
Alfalfa Loopers, Aphids, Spider Mites, Lygus, Leaf Miners:

**GREEN BEANS:**

Aphids, Spider Mites, Loopers, Nitidulids, Leafhoppers - 1 pint per acre in water to cover, 100 gallons per acre is preferable.

Large Loopers, Stink Bugs - 1 1/2 pints per acre in water to cover.

**BROCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS:**  
Imported Cabbage worms, Diamond-Back Caterpillars, Aphids - 1 pint per acre.

Loopers - 2 pints per acre. May be used 1 day before harvest except do not apply to kale and collards within 4 days of harvest.

**CELERY:**

Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leaf miners - Use ground application only with fine mist spray 1 pint in 50 to 75 gallons water per acre on plants less than 3/4 grown. On larger plants use 1 1/2 pints in 100 to 150 gallons water per acre.

**COTTON:**

Lygus - 1/2 to 1 pint per acre by air or ground.

Leaf Perforators, Fleahoppers, Armyworms, Bollworms, Loopers, and for Suppression of Mites - 1 pint per acre by air or ground. Apply at 7 to 10 day intervals while pests persist.

FOR HEAVY POPULATION OF LISTED INSECTS - Use 1/2 pint per acre by air or ground in control programs with other insecticides registered for use on cotton.

**CUCUMBERS, SUMMER SQUASH:**

Cucumber Beetles, Aphids, Spider Mites, Loopers, Thrips, Armyworms - 1 pint per acre in water to cover.  
Pickworms, Leaf Miners - 1 1/2 pints per acre in water to cover.  
BY AIR - Use minimum of 10 gallons water per acre. May be used up to harvest.

**EGGPLANT, PEPPERS:**

Aphids, Spider Mites, Blister Beetles, Flea Beetles, Whiteflies - 1 pint per acre. May be used up to 1 day before harvest.

**SPINACH, CHARD, TURNIP GREENS:**

Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leaf Miners - Use ground application only with fine mist spray 1 pint in 50 to 75 gallons water per acre on plants less than 3/4 grown. On larger plants, use 1 1/2 pints in 100 to 150 gallons water per acre. May be used 1 day before harvest.

**MELONS (Cantaloupe, Honeydew, Muskmelon, Watermelon), PUMPKINS, WINTER SQUASH:**

Loopers, Armyworms, Leafhoppers, Spider Mites, Leaf Miners - 1 to 2 pints per acre (200 gallons diluted spray per acre). May be used 1 day before harvest. Do not apply when temperature is over 90°F.

**ORANGES, LEMONS, GRAPEFRUIT, TANGERINES:**

Aphids, Soft Brown Scale Crawlers, Mites, Citrus Cutworms, Leaf Rollers (Tortrix) - 1 pint to 100 gallons water.

Thrips (Bloom) - 1/2 pint per 100 gallons water. Use up to 7 days of harvest.

(CA and AZ - Do not apply within 1 day of harvest.)

**RICE:**

Grasshoppers - 1/2 to 3/4 pint per acre. Apply at first sign of insects. Do not make more than 3 applications. May be used 2 days before harvest.

**TOBACCO:**

Hornworms - 1 pint to 100 gallons water, using up to 200 gallons diluted spray per acre.

Flea Beetles - 1 pint per acre in water to cover. Apply at first signs of insects. Repeat as necessary.

**TOMATOES (Field):**

Fruit Flies (Drosophila) - 1 pint in no less than 40 gallons water per acre with ground sprayer, 7 to 10 gallons by air. Make first application 5 to 7 days before first picking and continue at 5 to 7 day intervals until the day before harvest.

(Field and Greenhouse): Tomato Fruit Worms, Hornworms, Leaf Miners, Flea Beetles, Mites - 1 pint in 100 gallons water. Spray plants thoroughly. For Field-Use up to 200 gallons diluted spray per acre. Do not apply when temperature is over 90 degrees F. May be used 1 day before harvest.

GREENHOUSE, VAPOR TREATMENT OF ROSES, OTHER ORNAMENTAL PLANTS, TOMATOES, CUCUMBERS:

Spider Mites, Adult Whiteflies, Aphids, Leafrollers, Mealybugs-1 fluid ounce per 10,000 cubic feet when plants are dry. Apply undiluted on heat pipes (or in open pans on hot plates). Apply continuously or to intermittent sections of pipe on each side and on 1 or more of the pipes through center of each range depending upon width. Application to cold pipes should be followed by immediately heating pipes to 160 degrees F. In steam heated houses, close vents for at least 1 hour after pipes are hot. With hot water systems, close house for at least 3 hours. House may remain closed overnight following treatment. When application is made to hot pipes, wear goggles and approved respirator. Ventilate house before worker re-enters. Wear respirator when entering treated houses to ventilate. Protect hives of bees in cucumber and other houses by covering with plastic or rubber sheet during treatment and until house is ventilated. Do not apply to tomatoes or cucumbers closer than 1 day before harvest.

Spider Mites (Resistant and Non-resistant). Make 3 to 4 day intervals. Repeat as necessary.

Adult Whiteflies - Make 2 Applications at 7 day intervals. Repeat as necessary.

Aphids - Apply when aphids appear. Repeat as necessary.

NOTE: Avoid overtreatment and direct application to plants as injury may result. White Butterfly and Golden Rapture Roses, Pink Champagne Chrysanthemums, Green Wandering Jew, Poinsettias and Dutchman's Pipe may be injured by Naled vapor. Do not spray on Nectarines, ornamental Cherries, Liquidamber or Chrysanthemums as injury may occur.

FRUIT FLIES: (Drosophila sp.)

In and around Food Processing Plants, Loading docks, Cull Piles and Refuse Areas, Cider Mills - Use 2 ounces in 2 1/2 gallons water (5 pints to 100 gallons) as a coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Apply every 5 to 7 days as necessary. Do not apply to cull fruit or refuse piles to be fed to livestock. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not apply when plants are in operation or when foods are present or exposed. Do not spray surfaces which will come into contact with foods. Cover food containers during spraying.

ADULT MOSQUITO, GANT, STABLEFLY (Dog Flies), And HOUSEFLY CONTROL- RESIDENTIAL AREAS, CROPS LISTED ON LABEL, TIDAL MARSHES, SWAMPS, WOODLAND, LIVESTOCK PASTURES, FEED LOTS, AND PASTURES INCLUDING DAIRY CATTLE: Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings and dairy barns. Make applications during peak of infestation and repeat as necessary. See crop recommendations for use limitation near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp producing



787  
areas.

CORRALS, ADJACENT PASTURES, HOLDING PENS (Dairy and Beef Cattle, Hogs, Sheep, Horses):

Houseflies, Mosquitoes - Air plant Application - Use 1.6 to 4 fluid ounces per acre. Dilute 1 to 2 1/2 pints in 10 gallons water. Apply 1 gallon diluted spray per acre. Apply over areas with animals present.

CLOVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS:

Outside Dwellings and in Lawns: Use 1 fluid ounce in 3 gallons water. Apply to turf and to soil surfaces around flowers, shrubs, and trees for general pest cleanup.

GRASSHOPPERS:

Rangeland Field Areas (crops listed on Label) and Pastures including dairy pastures: Range Caterpillars and Rangeland and Pastures-1/2 to 3/4 pint per acre by air or ground. By Air - Use in 1 to 5 gallons water per acre. Apply when hoppers hatch is completed. Repeat as necessary. Animals may be present during treatment. See crop recommendations for use limitations near harvest. Forage plants on pastures or field areas should not be cut for hay to be sold or shipped interstate within 4 days of application.

#### CONDITIONS OF SALE

All statements concerning the use of this product apply only when the product is used as directed. THERE ARE NO WARRANTIES INCLUDING MERCHANTABILITY WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.