



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

January 30, 1998

Subject: Dicofol MF  
EPA Registration No. 66222-21  
Label amendments

Andy Eimanis  
Makhteshim - Agan of North America Inc.  
551 Fifth Ave., Suite 1100  
New York, NY 10176

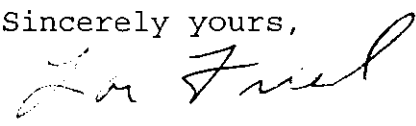
Dear Mr. Eimanis:

The revised labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable, provided you incorporate the Agency's conditions as enumerated in this letter and submit one copy of your final, printed labeling prior to releasing the product for shipment. A stamped copy of the label is enclosed for your files.

- 1) On page 4 of your label amend the "PESTICIDE DISPOSAL:..." language to state the following: "Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. 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."
- 2) On page 4 of your label in the STORAGE AND DISPOSAL section you must include the following paragraph: "STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources. Ventilate area. Avoid breathing vapors. Wear respirator suitable for vapor concentration encountered (MSHA/NIOSH approved or equivalent.) Dike the spill with inert material and transfer the liquid or solid diking materials to separate containers. REFER TO PRECAUTIONARY STATEMENTS."

If you have any questions regarding this letter, please contact me on (703) 308-6742.

Sincerely yours,



Lawrence Fried  
Chemical Manager  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure

cc: Anne Stout, Gowan

# Dicofol MF

<b>ACTIVE INGREDIENT:</b>	<b>% By Wt.</b>
Dicofol: 1,1-bis (chlorophenyl) 2,2,2 Trichloroethanol*	42.0%
<b>INERT INGREDIENTS</b>	<b>58.0%</b>
	<b>TOTAL 100.0%</b>

\*Contains 4 lbs. active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove victim to fresh air.

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

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention.

**NOTE TO PHYSICIAN:** Because this product contains a chlorinated hydrocarbon insecticide, vomiting or careful gastric lavage is recommended. Epinephrin or other adrenergic amines may cause myocardial irritability.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes, or clothing. Skin contact with this pesticide may be hazardous. The product is a skin sensitizer. Repeated exposure may cause allergic reaction in some individuals. If allergic reactions have occurred, discontinue use and see a physician. Causes moderate eye injury (irritation).

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as laminate, Nitrile rubber, Neoprene rubber, or Viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading
- For exposures in enclosed areas, 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 14G)
- For exposures outdoors, 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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROL SYSTEMS

Applicators **MUST** be in enclosed cabs or cockpits.

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.

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 RECOMMENDATIONS

Users should:

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

NET CONTENTS \_\_\_\_\_ GALS.

EPA Reg. No. 10163-97  
EPA Est. No.



01-30-98

Gowan Company

P.O. Box 5569  
Yuma, AZ 85366

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
66222-21

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**PHYSICAL AND CHEMICAL HAZARDS**

**FLAMMABLE.** Do not use near hear or open flame.

**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 (PPE) 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 12 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:

- Coveralls
- Chemical-resistant gloves, such as laminate, Nitrile rubber, Neoprene rubber, or Viton
- Chemical-resistant footwear plus socks

**CHEMIGATION STATEMENT**

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

**GENERAL INFORMATION**

Dicofol MF is an emulsifiable formulation that gives high initial kill against most species of agricultural mites. Dicofol MF is a specific miticide and will not kill bees and beneficial insect predators when used as recommended. Use only on crops listed on this label. Dicofol MF is compatible with most other commonly

used insecticides and fungicides. Observe the following use restrictions:

- Do not combine with lime.
- Do not apply to any crop within 2 weeks following sulfur dust or spray.

**DILUTION AND SPRAYING DIRECTIONS**

Dicofol MF can be applied by ground or air according to the following dilution directions. Provide thorough coverage of all plant parts. Coverage on the underside of leaves is especially important. Optimum spray gallonage varies with the type of equipment, size and density of crop plants.

**DILUTE APPLICATION: Field and Row Crops:** Apply specified rate in 20 to 60 gallons of water per acre.

**Orchard:** Apply specified rate in 100 to 800 gallons of water per acre.

**CONCENTRATE APPLICATION: Field and Row Crops:** Apply specified rate in not less than 5 gallons of water per acre.

**Orchard:** Apply specified rate in 20 to 100 gallons of water per acre.

**AIR APPLICATION:** Apply specified rate in 5 to 20 gallons of water per acre. Orchard rates should not be applied in less than 10 gallons of water per acre.

For further details, see specific recommendations on this label, then consult current State Agricultural Experiment Station's spray schedules or State Extension Service Specialists for additional details on compatibility, dosage and uses.

**MITE RESISTANCE MANAGEMENT**

Resistance to miticides is common and has been confirmed for virtually all commercial miticides. While resistance to Dicofol MF has been confirmed in some mite species, it has also been conclusively demonstrated that resistance of mites to Dicofol MF is unstable; susceptibility to Dicofol MF returns if Dicofol MF use is discontinued for a short time, usually 1 to 2 years. As a general rule, the utility of Dicofol MF can be maintained indefinitely by rotating use of Dicofol MF with miticides with different modes of action. Resistance management strategies vary from crop and state to state. For additional information, contact your State Extension Service Specialists or your local Gowan field representative.

**PREHARVEST INTERVAL**

The required days between last application and harvest are given in ( ) after each crop name.

**VEGETABLES AND FIELD CROPS**

CROP	PEST	PTS./ACRE	COMMENTS
BEANS (DRY, GREEN, LIMA) (21)	Pacific mites, Twospotted mites, Tropical mites	1-3	Apply at first sign of mite buildup.
	• Do not make more than two applications per season.		
BEANS (DRY, GREEN, LIMA)(CALIFORNIA ONLY) (21)	Pacific mites, Tomato russet mites, Twospotted mites, Tropical mites	3	Apply at first sign of mite buildup.
	• Do not make more than two applications per season.		
COTTON (30)	Desert mites, Pacific mites, Twospotted mites	1 1/2 - 3	Adjust rate depending on size of plant and density of foliage. Apply in sufficient water to provide thorough coverage. Begin application when mites are first noticed, and repeat application if necessary.
	<ul style="list-style-type: none"> <li>• Do not feed cotton stalks or trash to meat or dairy animals.</li> <li>• Do not make more than two applications per season.</li> </ul>		

VEGETABLES AND FIELD CROPS (continued)

CROP	PEST	PTS./ACRE	COMMENTS
CUCUMBERS, SQUASH (2)	Pacific mites, Tomato russet mites, Twospotted mites, Tropical mites	3/4	Apply at first sign of mite buildup. The minimum interval between applications is 7 days.
	<ul style="list-style-type: none"> <li>Do not use in combination with other materials unless previous experience has shown that the mixture is safe to plants.</li> <li>Do not make more than two applications per season.</li> </ul>		
HOPS (7)	Pacific mites, Twospotted mites, Tropical mites	2-2 1/3	Apply at first sign of mite infestation.
	<ul style="list-style-type: none"> <li>Do not apply more than two applications per season.</li> </ul>		
MINT (30)	Twospotted mites	1 3/4 - 2 1/2	Make applications when mites become active. Use sufficient water to provide thorough coverage.
	<ul style="list-style-type: none"> <li>Do not make more than one application per season.</li> </ul>		
PEPPERS, TOMATOES (2)	Pacific mites, Tomato russet mites, Twospotted mites, Tropical mites	3/4 - 1 1/2	Apply at first sign of mite buildup.
	<ul style="list-style-type: none"> <li>Do not apply more than two applications per season.</li> <li>Do not exceed 1 3/5 pts. per acre per year.</li> </ul>		

FRUITS AND NUTS

CROP	PEST	PTS./ACRE	COMMENTS
APPLES, PEARS (7)	Apple rust mites, Clover mites, European red mites, McDaniel mites, Pacific mites, Schoene mites, Twospotted mites, Willamette mites, Yellow (carpin) mites	4 pts.	Apply when mite population appears.
	<ul style="list-style-type: none"> <li>Do not make more than two applications per year.</li> <li>Do not make back-to-back or alternate row sprays more than 10 days apart.</li> <li>Do not apply after fruit formation in California, Washington, and Oregon.</li> </ul>		
CITRUS (GRAPEFRUIT, KUMQUATS, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES) (7)	Citrus flat mites, Citrus red (purple) mites, citrus rust mites, sixspotted mites, Texas citrus mites, Yuma mites	1 per 100 gals. not to exceed 8 pts. per acre	Apply in full coverage sprays using 1 pt. per 100 gals. of dilute spray (1 gal. maximum/acre). If concentrate sprays are used, adjust dosage accordingly. Make applications at low mite infestations before populations begin to increase rapidly. Use the lower dosage rate on smaller trees and the higher dosage rate on larger trees.
	<ul style="list-style-type: none"> <li>Do not apply more than two applications per year.</li> </ul>		
GRAPES (7)	Clover (brown almond) mites, European red mites, McDaniel mites, Pacific mites, Twospotted mites, Willamette mites, Yellow mites	1 1/3 - 2 1/2	Apply just after bloom or whenever mites appear.
	<ul style="list-style-type: none"> <li>Do not make more than two applications per season.</li> <li>Do not apply after fruit formation in California, Washington, and Oregon.</li> </ul>		
PECANS, WALNUTS (SEE TEXT FOR PHI)	Clover (brown almond) mites, European red mites, McDaniel mites, Pacific mites, Twospotted mites, Willamette mites, Yellow mites	4	Apply just after bloom or whenever mites appear and repeat if necessary. Apply in volumes sufficient to assure uniform and thorough coverage of all foliage and fruit surfaces.
	<ul style="list-style-type: none"> <li>Do not make more than two applications per year.</li> <li>Do not apply more than 8 pints per acre per year.</li> <li>Do not apply within 7 days of harvest nor within 14 days of harvest in California.</li> </ul>		
STRAWBERRIES (2)	Six spotted mites, Strawberry (Atlantic) mites, Twospotted mites	2	Apply when mites first appear. For cyclamen mites only, use 4 pints per acre in 2 to 3 thorough, high drenching sprays (400 gallons per acre) at 10 to 20 day intervals. Apply when new growth starts in spring or use as a spot treatment in infested areas during production season.
	<ul style="list-style-type: none"> <li>Do not apply if temperature exceeds 90°F.</li> <li>Do not make more than two applications per season.</li> <li>Do not apply after fruit formation in California, Washington, and Oregon.</li> </ul>		

OTHER USES

CROP	PEST	DOSAGE	COMMENTS
BERMUDAGRASS GROWN FOR SEED	Banks grass mites, Bermudagrass mites, brown mites, clover mites	2/3 - 4/5 pint per acre	Applications should be made as soon as mites appear and repeated as necessary.
LAWN AND TURF GRASSES	Clover mites, brown mites, Bermudagrass mites	2/3 - 1 pt. per acre; 1/3 fl. oz. or 2 tsp. per 1000 sq. ft.; 1 tsp. per gallon or; 1/2 pint per 50 gals. based on 100 gals. per acre	Apply when mites appear and repeat as necessary.
<ul style="list-style-type: none"> <li>Do not use on residential home lawns.</li> </ul>			

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Keep from freezing. Store at 32°F to 110°F.  
**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. 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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

NOTICE ON CONDITIONS OF SALE

Our recommendations for the use of this product are based upon information believed to be reliable at time of printing. The use of this product being beyond the control of Gowan Co., no guarantee, expressed, or implied is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe and sound practices. The buyer must assume all responsibility, including injury or damage resulting from its misuse as such or in combination with other products.