



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

December 18, 1997

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Renata R. Gaughan, Ph.D.
Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399

Subject: Kelthane MF (EPA Reg. No. 707-202)
Label amendments include: 1) reduced worker exposure requirements; 2) the deletion of grapes and strawberries; 3) the addition of pecans; 4) various use rate adjustments; and 4) other miscellaneous changes.

Dear Dr. Gaughan:

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 5 of your label include the following text to the "RESTRICTIONS" table for "COTTON": "Do not feed cotton stalks or trash to meat or dairy animals."

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

Sincerely yours,

A handwritten signature in cursive script that reads "Law Fried".

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

Enclosure

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KELTHANE® MF

AGRICULTURAL MITICIDE EMULSIFIABLE CONCENTRATE

ACTIVE INGREDIENT

Dicofol
1,1-Bis(chlorophenyl)-2,2,2-trichloroethanol.....42%*

INERT INGREDIENTS.....58%
TOTAL.....100%

*Equivalent to 4 lbs. active ingredient per gallon.

ACCEPTED
with **COMMENTS**
In EPA Letter Dated
DEC 18 1997
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

707-202

EPA REG. NO. 707-202

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Precautions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

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; or, call a physician and have the stomach emptied immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

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

IF INHALED: Remove victim to fresh air. Treat the victim symptomatically. Call a physician if problem continues.

IF ON SKIN: Wash exposed areas with plenty of soap and water. If irritation persists, call a physician.

IF IN EYES: Flush eyes with plenty of water.

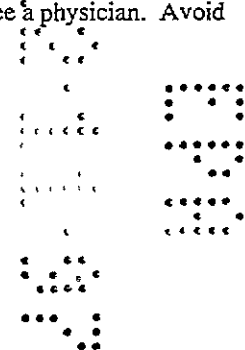
Call a physician if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye, skin, nose and throat irritation. Avoid contact with skin, eyes, and clothing. **Skin contact with this pesticide may be hazardous.** This product is a skin sensitizer. Repeated exposure may cause allergic reaction in some individuals. If allergic reaction should occur, discontinue use and see a physician. Avoid breathing vapors or spray mist.



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 resistance category selection chart.

APPLICATORS AND OTHER HANDLERS MUST WEAR:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as laminate or Nitrile rubber or 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 approved number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approved number prefix 14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing or 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 Standards (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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. For terrestrial uses, 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 apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposing of equipment washwaters. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill 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.

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 interval. 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 or Nitrile rubber or Neoprene rubber or Viton
- Shoes plus socks

STORAGE AND DISPOSAL

STORAGE-Keep from freezing. Store at 32°F-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.

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.

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. Wash clothing before reuse. REFER TO PRECAUTIONARY STATEMENTS.

CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE, OR USE OF THIS PRODUCT.**

CHEMIGATION

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

GENERAL USE INFORMATION

KELTHANE MF Miticide is an emulsifiable liquid formulation that gives high initial kill against most species of agricultural mites and provides residual mite control. KELTHANE MF is a specific miticide and will not kill bees and beneficial insect predators when used as recommended.

KELTHANE MF Miticide may be applied in dilute or concentrate ground sprays. The use rates specified below are for either type of application regardless of spray volume. KELTHANE MF is a contact miticide, not a systemic pesticide. Mites must come in contact with KELTHANE MF as it is sprayed or be exposed to KELTHANE residues on the leaf and/or fruit surface. Since mites often infest the undersurfaces of leaves and fruits, effective control requires an application that thoroughly and uniformly coats all aerial plant surfaces. For maximum effectiveness, KELTHANE MF Miticide should be applied to low populations of mites.

APPLICATION INFORMATION

COMPATIBILITY- KELTHANE MF Miticide is compatible with most other commonly used insecticides and fungicides. However, compatibility with all products, formulations and additives available cannot be guaranteed. Test mix small proportionate quantities of all spray tank ingredients in a small jar to ensure compatibility. A compatibility agent such as LATRON AG-44M® spray adjuvant may improve compatibility with some nutritionals, fertilizers, etc. Maintain agitation in the spray tank during mixing (loading) and application. Consult State Agricultural Experiment Station spray schedules or State Extension Service Specialists for additional information.

WATER pH- Do not put KELTHANE MF Miticide in alkaline solutions or mix with lime or lime-containing products. Adjust the pH of the diluent (spray) water to the slightly acidic range (pH 5 to 7) with a pH modifier such as LATRON AG-44M before adding KELTHANE MF to the tank.

ADJUVANTS- KELTHANE MF Miticide may be used either with or without any additional adjuvants. It is many times beneficial to improve the spray coverage on difficult to wet foliage and to smooth out spray deposits on maturing fruit by the addition of a spray adjuvant. The following spray adjuvants have been especially formulated to optimize the performance of foliar-applied agricultural chemicals:

LATRON B-1956® . A water-dispersible, resin-based nonionic surfactant that resists rewetting and removal by rain. Effective with dilute sprays applied by ground equipment.

LATRON CS-7® A spreader-binder designed specifically for use in concentrate and low volume sprays applied in concentrate and low volume sprays applied by aircraft or ground equipment.

Other suitable pesticide spreader-stickers may also be used except in situations where LATRON B-1956 is recommended as the only acceptable spreader-sticker.

GROUND APPLICATION- Apply KELTHANE MF Miticide as a dilute or concentrate spray with a properly calibrated and maintained sprayer in sufficient water to assure thorough and uniform coverage of foliage and fruit surfaces. All use rates specified by this label are based on broadcast acre. If applications are banded, the application rates should be adjusted accordingly.

AERIAL APPLICATION- KELTHANE MF Miticide may be applied by air in properly calibrated and maintained equipment. For row crops, use a minimum of 5 gallons per acre. For applications in perennial tree crops and vines, use a minimum of 10 gallons per acre. Include a suitable spreader-sticker such as LATRON B-1956 or LATRON CS-7

MITE RESISTANCE MANAGEMENT- Resistance to miticides is common and has been confirmed for virtually all commercial miticides. While resistance to KELTHANE MF Miticide has been confirmed in some mite species it has also been conclusively demonstrated that resistance of mites to KELTHANE MF is unstable. That is, susceptibility to KELTHANE MF returns if KELTHANE MF use is discontinued for a short time, usually 1 to 2 years. As a general rule, the utility of KELTHANE MF can be maintained indefinitely by rotating use of KELTHANE MF with miticides with different modes of action and by limiting the number of applications of KELTHANE MF to an average of one per season. If two applications are made in a single growing season, no applications should be made the following year. Resistance management strategies vary from crop to crop and state to state. For additional information contact your State Extension Service Specialists or your local Rohm and Haas field representative.

MITES CONTROLLED

Atlantic spider mite
 Banks grass mite
 bermudagrass mite
 broad mite
 brown mite
 citrus bud mite
 citrus flat mite
 citrus red mite
 citrus rust mite
 clover mite

conifer spider mite
 cyclamen mite
 desert spider mite
 European red mite
 false spider mite
 McDaniel spider mite
 Pacific spider mite
 pecan leaf scorch mite
 privet mite
 purple mite
 six-spotted mite

spruce spider mite
 strawberry spider mite
 Texas citrus mite
 tomato russet mite
 tropical mite
 two-spotted spider mite
 Willamette mite
 yellow spider mite
 Yuma spider mite

VEGETABLES AND FIELD CROPS

CROP	APPLICATION RATE KELTHANE MF (PER ACRE)	COMMENTS	RESTRICTIONS	DAYS FROM LAST APPLICATION TO HARVEST
BEANS (dry, green lima)	1 to 3 pints	Apply at first sign of mite buildup.	Do not make more than 2 applications per season.	21 days.
COTTON	1 1/2 to 3 pints	Adjust use rate depending on infestation level, size of the plant and density of the foliage. Apply in sufficient water to provide thorough coverage and use a suitable spreader-sticker such as LATRON B-1956. Apply at first signs of mite infestation.	Do not make more than 2 applications per season.	30 days
HOPS	2 to 2 1/3 pints	Apply at first signs of mite infestation.	Do not make more than 2 applications per season.	7 days
MINT	1 3/4 to 2 1/2 pints	Make applications when mites become active. Use sufficient water to provide thorough coverage.	Do not make more than one application per crop per season.	30 days
PEPPERS TOMATOES	3/4 to 1 1/2 pints	Apply at first signs of mite buildup.	Do not apply more than 2 application per year. Do not exceed 1.6 pints per year.	2 days

FRUITS AND NUTS

CROP	APPLICATION RATE KELTHANE MF (PER ACRE)	COMMENTS	RESTRICTIONS	DAYS FROM LAST APPLICATION TO HARVEST
CITRUS (Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangelos, Tangerines)	Trees less than 10 ft. tall : 4 to 6 pints,(FL.,TX.) 6 to 8 pints(CA.,AZ.); Trees greater than 10 Ft. tall: 6 to 8 pints(FL.TX.) 8 pints (CA.,AZ.).	Make applications at low mite infestations before populations begin to increase rapidly. Apply in water volumes sufficient to assure uniform and complete coverage.	Do not make more than 2 applications per year.	7 days
PECANS, WALNUTS	4 pints	Apply in water volumes sufficient to assure uniform and thorough coverage of all foliage and fruit surfaces. Apply just after bloom or whenever mites appear and repeat if necessary.	Do not make more than 2 applications per year. Do not apply more than 8 pints per acre, per year.	7 days

OTHER USES

CROP	APPLICATION RATE KELTHANE MF	COMMENTS	RESTRICTIONS
BERMUDAGRASS GROWN FOR SEED	2/3 to 1 pint per acre.	For ground applications apply in a full coverage spray of 40 to 100 gallons per acre depending on the level of infestation and density and height of the grass stand. Applications should be made as soon as mites appear.	
CLOVER MITES ON BUILDINGS	1/3 fl. oz. or 2 tsp. per 1000 sq. ft; 1 tsp per gallon; 1/2 pint per 50 gallons*.	Thoroughly spray outside walls, foundations, windowsills, plants and lawns at the base of infested buildings.	
NON-RESIDENTIAL LAWN AND TURF GRASSES	2/3 to 1 pints per acre; 1/3 fl. oz. or 2 tsp. per 1000 sq. ft; 1 tsp. per gallon.; 1/2 pint per 50 gallons*.	Make applications when mites appear.	Do not use on residential home lawns.

*Based on 100 gallons per acre application volume

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