

Pm 19

707-229

Page 1 of 11
Master Label

1

8217-M5
7/19/95

KELTHANE® 50

AGRICULTURAL MITICIDE WETTABLE POWDER



Alternate Product Names:

- KELTHANE T/O Turf and Ornamental Miticide
- KELTHANE 50 WSP Agricultural Miticide In Water-Soluble Pouch
- KELTHANE T/O WSP Turf and Ornamental Miticide In Water-Soluble Pouch

ACTIVE INGREDIENT

Dicofol

1,1-Bis(chlorophenyl)-2,2,2-trichloroethanol.....50%

INERT INGREDIENTS.....50%

TOTAL.....100%

EPA REG. NO. 707-229

EPA EST NO 477-MD-1E;477-TX-1L

Superscript used is first letter of lot number

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions 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: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water. Do not use milk, cream or other liquids containing vegetable or animal fats. Induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

NOTE TO PHYSICIAN: Because this product is a chlorinated miticide vomiting is recommended. The administration of milk or other fat-based demulcents which might enhance absorption is to be avoided. Epinephrin or other adrenergic amines can cause myocardial irritability in persons poisoned with chlorinated hydrocarbons.

IF INHALED: Remove victim to fresh air. Treat the victim symptomatically. If irritation persists call a physician.

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. If irritation persists call a physician.

ACCEPTED

AUG 08 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 707-229

NET CONTENTS 6 LBS. (2.72.KG)

10811

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Causes moderate eye injury. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin or clothing. Avoid breathing dust or spray mist. This product is a skin sensitizer.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

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.

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 contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Apply this product only as specified on this label.

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
- Water-proof gloves
- Shoes plus socks

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. 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: Completely empty bag into application equipment, then dispose of empty bag 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: Sweep or shovel solid material into a suitable container for recovery or disposal. Keep spills out of all sewers and open bodies of water. 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
FOR USE ON AGRICULTURAL CROPS**

KELTHANE 50 Miticide is a wettable powder formulation that gives high initial kill against most species of agricultural mites. KELTHANE 50 is a specific miticide and will not kill bees and beneficial insect predators when used as recommended.

KELTHANE 50 Miticide may be applied in dilute or concentrate sprays. The amount of KELTHANE 50 used per acre is the same regardless of spray volume. KELTHANE 50 is a contact miticide, not a systemic pesticide. Mites must come in contact with KELTHANE 50 as it is sprayed or be exposed to KELTHANE residues on the leaf and/or fruit surface. Since mites often infest the under-surfaces of leaves and fruits, effective control requires an application that thoroughly and uniformly coats all aerial plant surfaces. For maximum effectiveness, KELTHANE 50 Miticide should be applied to low mite population.

APPLICATION INFORMATION

COMPATIBILITY- KELTHANE 50 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 44-M may improve compatibility with some nutritionals, fertilizers, etc. Always add KELTHANE 50 to the spray tank before adding products formulated as emulsifiable concentrates. 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.

***GENERAL USE INFORMATION**
***KELTHANE 50 WSP**
(PRODUCT PACKAGED IN 1 LB. WATER-SOLUBLE POUCHES)

KELTHANE 50 WSP Miticide is a wettable powder formulation that gives high initial kill against most species of agricultural mites. KELTHANE 50 WSP is a specific miticide and will not kill bees and beneficial insect predators when used as recommended. KELTHANE 50 WSP Miticide is supplied in individual water-soluble pouches containing one pound of wettable powder.

KELTHANE 50 WSP Miticide may be applied in dilute or concentrate sprays. The amount of KELTHANE 50 WSP used per acre is the same regardless of spray volume. KELTHANE 50 WSP is a contact miticide, not a systemic pesticide. Mites must come in contact with KELTHANE 50 WSP as it is sprayed or be exposed to KELTHANE residues on the leaf and/or fruit surface. Since mites often infest the under-surfaces of leaves and fruits, effective control requires an application that thoroughly and uniformly coats all aerial plant surfaces. For maximum effectiveness, KELTHANE 50 WSP Miticide should be applied to low mite population.

APPLICATION INFORMATION

***HANDLING** - The enclosed pouches of KELTHANE 50 WSP Miticide are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

***MIXING** - Always place KELTHANE 50 WSP Miticide into solution prior to adding co-applied materials to the spray tank. Add the required number of unopened pouches as determined by the dosage recommendations into the spray tank with agitation. The number of pouches to be added per spray tank load is the pounds per acre specified by the dosage recommendations below, multiplied by the number of acres to be sprayed. Depending on the water temperature and the degree of agitation, the pouches should dissolve completely within approximately ten minutes from the time they are added to the water.

***COMPATIBILITY** - KELTHANE 50 WSP 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 44-M 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.

***NOTE** - KELTHANE 50 WSP Miticide is compatible with boron and spray oils; however, the water-soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray mixtures.

***These paragraphs are for use with water-soluble pouch labeling only.**

WATER pH-Do not put KELTHANE 50 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 spray adjuvant after adding KELTHANE 50 Miticide to the tank.

ADJUVANTS- KELTHANE 50 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 spreader-sticker such as LATRON B-1956. 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 50 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 given in pounds KELTHANE 50 Miticide per acre are based on a broadcast acre. If applications are banded, the application rates should be adjusted accordingly.

AERIAL APPLICATION- KELTHANE 50 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 50 Miticide has been confirmed in some mite species it has also been conclusively demonstrated that resistance of mites to KELTHANE 50 is unstable. That is, susceptibility to KELTHANE 50 returns if KELTHANE 50 use is discontinued for a short time, usually 1 to 2 years. As a general rule, the utility of KELTHANE 50 can be maintained indefinitely by rotating use of KELTHANE 50 with miticides with different modes of action and by limiting the number of applications of KELTHANE 50 to one per season. 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

apple rust mite
Atlantic spider mite
Banks grass mite
bermudagrass mite
(couch grass bud mite)
broad mite
brown mite
carpini spider mite
clover mite
conifer spider mite

cyclamen mite
desert spider mite
European red mite
McDaniel spider mite
Pacific spider mite
pear rust mite
plum nursery mite
plum rust mite
privet mite
Schoene spider mite

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

CROPS AND DOSAGE RECOMMENDATIONS

CROP	APPLICATION RATE	COMMENTS	RESTRICTIONS	DAYS FROM LAST APPLICATION TO HARVEST
APPLES, PEARS CRABAPPLES QUINCE	Trellised trees or trees 10 ft. tall or less: 3 to 4 lbs. per acre; trees greater than 10 ft. tall: 4 to 6 lbs. per acre.	Use the higher rate in each range for high mite infestation levels, larger trees or more dense foliage. Make applications when mite populations reach threshold levels as specified by Agricultural Experiment Station or State Extension Service Specialists.	Do not make more than 2 applications per season. Do not make back-to-back or alternate row sprays more than 10 days apart.	7 days
CUCURBITS (Cantaloupe Cucumbers, melons, pumpkins, watermelons, winter and summer squash)	1 1/4 lbs. per acre.	Apply KELTHANE 50 at the first signs of mite buildup. Because foliage of cucurbit crops is hard to wet, use sufficient carrier (water) volume to provide thorough coverage and use 2 quarts of LATRON B-1956 per 100 gallons of spray mix.	Do not make more than 2 applications per season. Do not feed treated vines, forage or crop residues to meat or dairy animals. The minimum interval between applications is 7 days.	2 days
GRAPES	2 1/2 lbs. per acre.	Apply just after bloom or whenever mites appear.	Do not make more than 2 applications per season.	7 days
STRAW-BERRIES	3/4 to 2 lbs. per acre. For cyclamen mites only: 1-1/2 to 4-3/4 lbs. per acre.	Apply to low populations when mites first infest the crop. For cyclamen mite apply up to 2 thorough, high-pressure drenching sprays at a 10 to 20 day interval when new growth starts in spring or use as a spot treatment during production season.	Do not make more than 2 applications per season.	2 days

GENERAL USE INFORMATION FOR TURF AND ORNAMENTAL USE

KELTHANE T/O Miticide is a wettable powder formulation that gives high initial kill against most species of agricultural mites. KELTHANE T/O is a specific miticide and will not kill bees and beneficial insect predators when used as recommended.

KELTHANE T/O is a contact miticide, not a systemic pesticide. Mites must come in contact with KELTHANE T/O as it is sprayed or be exposed to KELTHANE T/O residues on the plant surfaces. Since mites often infest the under surfaces of leaves, effective control requires an application that thoroughly and uniformly coats all aerial plant surfaces. For maximum effectiveness, KELTHANE T/O Miticide should be applied to low mite population.

APPLICATION INFORMATION

COMPATIBILITY- KELTHANE T/O Miticide is compatible with most 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 44-M may improve compatibility with some nutritional, fertilizers, etc. Always add KELTHANE T/O to the spray tank before adding products formulated as emulsifiable concentrates. 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.

***GENERAL USE INFORMATION
*KELTHANE T/O WSP
(PRODUCT PACKAGED IN 1-LB. WATER-SOLUBLE POUCHES)**

KELTHANE T/O WSP Miticide is a wettable powder formulation that gives high initial kill against most species of agricultural mites. KELTHANE T/O WSP is a specific miticide and will not kill bees and beneficial insect predators when used as recommended. KELTHANE T/O WSP Miticide is supplied in individual water-soluble pouches containing one-pound of wettable powder.

KELTHANE T/O WSP is a contact miticide, not a systemic pesticide. Mites must come in contact with KELTHANE T/O WSP as it is sprayed or be exposed to KELTHANE T/O residues on the plant surface. Since mites often infest the under-surfaces of leaves, effective control requires an application that thoroughly and uniformly coats all aerial plant surfaces. For maximum effectiveness, KELTHANE T/O WSP Miticide should be applied to low mite population.

APPLICATION INFORMATION

***HANDLING** - The enclosed pouches of KELTHANE T/O WSP Miticide are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

***MIXING**- Always place KELTHANE T/O WSP Miticide into solution prior to adding co-applied materials to the spray tank. Add the required number of unopened pouches as determined by the dosage recommendations into the spray tank with agitation. The number of pouches to be added per spray tank load is the pounds per 100 gallons specified by the dosage recommendations below. Depending on the water temperature and the degree of agitation, the pouches should dissolve completely within approximately ten minutes from the time they are added to the water.

***COMPATIBILITY**- KELTHANE T/O WSP 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 44-M 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.

***NOTE:** KELTHANE T/O WSP Miticide is compatible with boron and spray oils; however, the water soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray mixtures.

***These paragraphs are for use with water-soluble pouch labeling only.**

WATER pH-Do not put KELTHANE T/O 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 spray adjuvant after adding KELTHANE T/O Miticide to the tank.

ADJUVANTS- KELTHANE T/O Miticide may be used either with or without any additional adjuvants. Addition of a spreader-sticker can at times be beneficial in improving spray coverage on difficult to wet foliage. KELTHANE T/O Miticide should only be combined with a spreader-sticker that has been proven safe to turfgrass and ornamental species.

GROUND APPLICATION- Apply KELTHANE T/O 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.

CROP TOLERANCE- KELTHANE T/O is generally not phytotoxic to greenhouse and field-grown crops. However, applications should be made to a small representative group of plants to assure that a particular variety, grown under current conditions, is not unusually sensitive to KELTHANE T/O.

MITE RESISTANCE MANAGEMENT

The repeated and exclusive use of miticides with the same mode of action will encourage selection for mite resistance. Because this potential exists, it is advised that KELTHANE T/O Miticide be alternated with miticides having a different mode of action, to prevent or delay this selection process.

MITES CONTROLLED

- | | | |
|------------------------|----------------------|-------------------------|
| apple rust mite | cyclamen mite | six-spotted mite |
| Atlantic spider mite | desert spider mite | spruce spider mite |
| Banks grass mite | European red mite | strawberry spider mite |
| bermudagrass mite | McDaniel spider mite | tomato russet mite |
| (couch grass bud mite) | Pacific spider mite | tropical mite |
| broad mite | pear rust mite | two-spotted spider mite |
| brown mite | plum nursery mite | Willamette mite |
| carpini spider mite | plum rust mite | yellow spider mite |
| clover mite | privet mite | Yuma spider mite |
| conifer spider mite | Schoene spider mite | |

USE AND DOSAGE RECOMMENDATIONS

USE	APPLICATION RATE	COMMENTS	RESTRICTIONS
NON-RESIDENTIAL TURF GRASSES, NURSERIES, ORNAMENTALS FLOWERS, SHADE TREES,	1/2 to 1 lbs. per 100 gallons;	Spray in a manner which ensures penetration of dense foliage and gives uniform and thorough coverage of upper and lower leaf surfaces. Avoid excessive runoff. Make applications when mites first appear and repeat in 5 to 7 days in the South and 10 to 14 days in the North. KELTHANE T/O is generally not phytotoxic to greenhouse grown plants. However, application should be made to a small representative group of plants to ensure that a particular variety grown under current conditions is not unusually sensitive to KELTHANE T/O.	Do not use on residential home lawns.
OUTSIDE SURFACES OF BUILDINGS	1/2 to 1 lbs. per 100 gallons;	For control of clover mites, thoroughly spray outside walls, foundations, and windowsills and plants and lawn at the base of infested buildings.	

KELTHANE[®], LATRON, AG-44M and B-1956[™] are trademarks of Rohm and Haas Company

8217-M5
7/19/95