

8217-M8b
12/17/98



KELTHANE® 50 WSP
AGRICULTURAL MITICIDE
IN WATER-SOLUBLE POUCHES

Alternate name:
 KELTHANE T/O WSP Turf and Ornamental Miticide

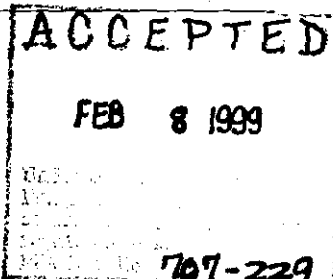
ACTIVE INGREDIENT

Dicofol

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

INERT INGREDIENTS-----50%

TOTAL 100%



EPA REG. NO. 707-229

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

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 the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

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

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.

Probable mucosal damage may contraindicate the use of gastric lavage.

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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing.

Harmful if swallowed or inhaled. Avoid breathing dust or spray mist.

Harmful if absorbed through the skin. Avoid contact with skin. This product is a skin sensitizer.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: -

- Protective eyewear
- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading
- For handling activities, 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.

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 (*applicators using this product for agricultural uses only*) MUST be in enclosed cabs or cockpits.

Except as stated below, 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 handlers PPE requirements may be reduced or modified as specified in the WPS.

Water-soluble packets when used correctly qualify as a closed loading system under WPS. Handlers preparing for ground applications and handling this product while it is enclosed in intact water-soluble packets in preparation may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, a chemical-resistant apron and chemical-resistant gloves. Aerial mixer-loaders must wear full PPE as specified above.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

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 **48 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:

- Protective eyewear
- 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

***KELTHANE 50 WSP AGRICULTURAL MITICIDE (1 lb. Water-soluble pouch)**

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 50 WSP 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 50 WSP Miticide should be applied to low mite populations.

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 five 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. 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.

WATER pH-Do not put KELTHANE 50 WSP 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 WSP Miticide to the tank.

ADJUVANTS- KELTHANE 50 WSP 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.

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 50 WSP 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 WSP Miticide per acre are based on a broadcast acre. If applications are banded, the application rates should be adjusted accordingly.

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

applications of KELTHANE 50 WSP to an average of one per season. If two applications are made in a single growing season, no application 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

- | | | |
|------------------------|----------------------|-------------------------|
| 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 | |

CROPS AND DOSAGE REQUIREMENTS

CROP	APPLICATION RATE	COMMENTS	RESTRICTIONS	DAYS FROM LAST APPLICATION TO HARVEST
CUCURBITS (CANTALOUPE CUCUMBER, MELON, PUMPKIN, WATERMELON, WINTER AND SUMMER SQUASH)	1-1/4 lbs. per acre.	Apply KELTHANE 50 WSP 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.	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
POMEFRUITS (APPLE, CRABAPPLE, PEARS, 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
STRAWBERRIES	1 to 2 lbs. per acre. For cyclamen mites only; 3 to 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.	3 days

***GENERAL USE INFORMATION**

***KELTHANE T/O-WSP TURF AND ORNAMENTAL MITICIDE (4 oz. water-soluble pouch)**

KELTHANE T/O WSP Miticide is a specific contact miticide recommended for use on trees, shrubs, foliage plants, listed fruit bearing trees and flowers in outdoor landscapes, nurseries and greenhouses. KELTHANE T/O WSP 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 or other beneficial insects when used as recommended. KELTHANE T/O WSP Miticide is supplied in individual water-soluble pouches containing four ounces 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 undersurfaces 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 populations.**

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. Maintain agitation throughout the mixing and spraying process to ensure uniform mixing. Depending on the water temperature and the degree of agitation, the pouches should dissolve completely within approximately five 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. 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.

WATER pH-Do not put KELTHANE T/O WSP 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 WSP 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 WSP Miticide should only be combined with a spreader-sticker that has been proven safe to turfgrass and ornamental species. The following spray adjuvants have been especially formulated to optimize the performance of foliar-applied turf and ornamental pesticides:

- LATRON B-1956® A water-dispersible, resin-based nonionic surfactant that resists rewetting and wash off by rain. Most effective with high volume spray equipment.
- LATRON CS-7® A spreader-binder designed specifically for use in concentrate and low volume spray equipment.

Other suitable pesticide spreader-stickers may also be used in combination with KELTHANE T/O WSP Miticide

APPLICATION INSTRUCTIONS FOR TURF AND ORNAMENTAL- Apply KELTHANE T/O WSP Miticide as a dilute or low volume spray with a properly maintained and calibrated sprayer. Use sufficient water to assure thorough and uniform coverage of the plant foliage. The amount of KELTHANE T/O WSP Miticide applied per acre should be the same whether dilute or low volume sprays are used. The amount of spray applied must be adjusted to the size and density of the trees or plants treated to provide adequate coverage. See Use and Dosage Requirements for rates.

CROP TOLERANCE- KELTHANE T/O WSP 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 WSP.

MITE RESISTANCE MANAGEMENT

Resistance to miticides is common and has been confirmed for virtually all commercial miticides. While resistance to KELTHANE T/O WSP Miticide has been confirmed in some mite species it has also been conclusively demonstrated that resistance of mites to KELTHANE T/O WSP is unstable. That is, susceptibility to KELTHANE T/O WSP returns if use is discontinued for a short time, usually 1 to 2 years.

As a general rule, the utility of KELTHANE T/O WSP can be maintained indefinitely by rotating use of KELTHANE T/O WSP to one crop or season. In no case should more than two applications be made to a crop or in a single growing 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 | carpini spider mite | Pacific spider mite | six-spotted mite | two-spotted spider mite |
| Atlantic spider mite | clover mite | pear rust mite | spruce spider mite | Willamette mite |
| Banks grass mite | conifer spider mite | plum nursery mite | strawberry spider mite | yellow spider mite |
| bermudagrass mite | cyclamen mite | plum rust mite | tomato russet mite | Yuma spider mite |
| (couch grass bud mite) | desert spider mite | privet mite | tropical mite | |
| broad mite | European red mite | Schoene spider mite | | |
| brown mite | McDaniel spider mite | | | |

USE AND DOSAGE REQUIREMENTS

CROP USE	APPLICATION RATE HIGH VOLUME SPRAYERS	APPLICATION RATE LOW VOLUME SPRAYERS	COMMENTS	RESTRICTIONS	DAYS FROM LAST APPLICATION TO HARVEST
POMEFRUITS (APPLE, PEAR, CRABAPPLE & QUINCE)	5 Pouches (1-1/4 lbs.) per 100 gallons (1)	15 Pouches (3-3/4 lbs.) per acre (3)	Make applications when mite populations reach threshold levels as specified by Agricultural Experiment Station or State Extension Service Specialists.	Do not use on residential pomefruits. Do not make more than two applications per season. Do not make back-to-back or alternate row sprays more than 10 days apart.	7 days
NON-RESIDENTIAL TURF GRASSES, NURSERIES, ORNAMENTALS FLOWERS, SHADE TREES,	2 to 4 Pouches (1/2 to 1 lb.) per 100 gallons (2)	2 to 4 pouches (1/2 to 1 lb.) per acre (3)	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 WSP 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 WSP.	Do not use on residential home lawns or residential ornamentals. Do not make more than two applications per crop or season.	--
OUTSIDE SURFACES OF BUILDINGS	2 to 4 Pouches (1/2 to 1 lb.) per 100 gallons (2)	2 to 4 pouches (1/2 to 1 lb.) per acre (3)	For control of clover mites, thoroughly spray outside walls, foundations, and windowsills and plants and lawn at the base of infested buildings.		

- (1) Assumes application volume of 300 gallons per acre.
- (2) Assumes application volume of 100 gallons per acre.
- (3) Assumes Application volume of 20 gallons per acre.

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