

APR - 6 1993

Dr. Richard D. Costlow
Product Registration Manager
Rohm and Haas Company
Independence Mall West
Philadelphia, PA 19105

Dear Dr. Costlow:

Subject: Revised Labeling to Delete Agricultural and Outdoor Uses
and Add
Karathane WD Fungicide/Miticide
EPA Reg. No. 707-53
Your Submissions Dated 12/16/91, 1/29/93, and 3/25/93

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Change the term "wetlands" under Environmental Hazards statement to "areas where surface water is present or to intertidal areas below the mean high water mark."
 2. Since all agricultural uses are being deleted, you must remove any reference to "agricultural" use from the label, including product name on the front panel, and under Compatibility and Spray Adjuvant statements.
 3. Since this label is not for use in California and Arizona, delete the reference to use in California under Use Rate Determination.
 4. Delete the Chemigation statement, since it implies agricultural use.
 5. Directions for use should clearly state that product is meant for indoor greenhouse use only.
3. Submit five (5) copies of the final printed labeling within 30 days from the date of this letter, and before you release the product for shipment bearing the amended labeling.

A stamped copy of the label is enclosed for your records.

Sincerely,

DHE

Dennis H. Edwards, Jr.
Product Manager 19
Insecticide & Rodenticide Branch
Registration Division (H7505C)

**NOT FOR SALE, DISTRIBUTION OR USE
IN ARIZONA AND CALIFORNIA**

**FOR AGRICULTURAL USE ONLY OR
ONLY FOR SALE TO, USE, AND
STORAGE BY SERVICEPERSONS**

KARATHANE WD

Agricultural Fungicide and Miticide

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. **USE OF THIS PRODUCT MAY BE HAZARDOUS TO YOUR HEALTH. THIS PRODUCT HAS BEEN DETERMINED TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS.**

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye, skin, nose and throat irritation. May cause allergic skin reaction in susceptible individuals. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking.
When mixing/loading and spraying wear midforearm-to-elbow length chemical-resistant gloves, boots or overshoes, one-piece overalls that have long sleeves and long pants, and face shield or goggles. Mixer/loaders should, in addition, wear a chemical-resistant apron.

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED:** Drink 1 or 2 glasses of water. Call a physician. Never give anything by mouth to an unconscious person.
- NOTE TO PHYSICIAN:** Administer sedatives if necessary to control apprehension and excitement. Be prepared to counteract respiratory depression and hypotension which may occur following the administration of anti-convulsants.
- 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 for at least 15 minutes. If irritation persists, call a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water or wetlands. 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 disposal of wastes. 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.

ACTIVE INGREDIENTS
2,4-Dinitro-6-ethyl- phenyl crotonate) 19.4%
2,6-Dinitro-4-ethyl- phenyl crotonate)
Mecoprop- phenol (principally dinitro) 0.1%
INERT INGREDIENTS 80.5%

**ACCEPTED
with COMMENTS**
*A mixture of 1-methylheptyl, 1-octylheptyl, and 1-propylheptyl
EPA Letter Dated
EPA Reg. No. 707-53



**ROHM
HAAS**
PHILADELPHIA, PA 19104
ATLANTA, GA 30303

APR - 6 1993

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

707-53

RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION

(Insert area or field description) treated with KARATHANE WD on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to KARATHANE WD and describe his condition. For further information see the "Statement of Practical Treatment."

Oral warnings must include the same information that is in the written warnings.

PERSONAL PROTECTIVE EQUIPMENT

During the mixing and loading of KARATHANE WD, wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical-resistant gloves, chemical-resistant apron, and chemical-resistant shoes, shoe coverings, or boots. Wear goggles or a face shield. A hood or hat may also be worn.

IMPORTANT: After application of the pesticide is completed, remove all clothes and shoes. Shower using soap and water. Redress only in clean clothes. Do not use contaminated clothing. Wash non-disposable protective clothing and protective equipment with soap or detergent and water after each use. Personal and non-disposable protective clothing worn during use must be laundered separately from household articles. Clothing or protective equipment heavily contaminated or drenched with KARATHANE WD must be destroyed according to state or local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

Change

ORNAMENTALS

Crop	Control of:	Timing and Remarks
African violets Asters Begonias Calendulas Chrysanthemums Cinerarias Dahlias Delphiniums Exonymus Gardenia Hydrangeas Larkspur Lilacs	Clover mites Powdery mildew Red spider mites	GENERAL USE DIRECTIONS: Greenhouse — Use 4 to 6 ozs./100 gals. water or 2 level tablespoons per 12½ gals. water. Begin applications when first signs of powdery mildew or mites are observed and apply thorough coverage sprays at 7 to 10 day intervals. Do not apply when greenhouse temperatures are expected to reach or exceed 90°F.

STORAGE AND DISPOSAL

STORAGE: Do not store at temperatures above 90°F for periods longer than 48 hours.

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

PAPER BAGS: Completely empty bag into application equipment. Then 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.

FIBER DRUMS: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of drum and liner in a sanitary landfill, or by incineration if allowed by State and Local authorities.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Scoop or shovel solid material into a suitable container for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse. Keep spill 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.**

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CHEMIGATION

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

GENERAL USE INFORMATION:

KARATHANE WD fungicide-miticide will protect against and eradicate powdery mildew when used according to the label directions.

KARATHANE WD fungicide-miticide also provides effective control or suppression of the following mites, including those that may be resistant to other miticides:

Citrus Red Clover	European Red Peach Silver	Plum Nursery Red Spider (two-spotted)
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KARATHANE WD fungicide-miticide possesses short residual activity and is effective only against motile mite forms. Although of short residual activity, effective reduction of motile mite populations may provide economic mite control for many weeks. When used alone, application should be repeated every 7 to 10 days to kill mites emerging from eggs and unaffected by previous sprays. Alternating sprays or tank mix combinations with other miticides will delay the development of mite resistance to other miticides and improve initial mite kill.

USE RATE DETERMINATION

Carefully read, understand, and follow label rates and use limitations.

Label use rates are for single strength (dilute) sprays. KARATHANE WD fungicide-miticide may be used in concentrate or airblast sprayers but correct use rates must be maintained. Do not use in concentrate sprays in California.

When spray volumes of less than 100 gallons are required to provide a thorough full coverage spray, the following table may be used to determine the proper use rate:

Recommended KARATHANE WD Fungicide-Miticide Label Use Rate Per 100 Gals. Spray (Oz.)	Teaspoons KARATHANE WD Fungicide-Miticide Required in Varied Single Strength Spray Gallonages*				
	1 gal.	2 gals.	3 gals.	5 gals.	10 gals.
4	1/2	1	1 1/2	2 1/2	5
6	3/4	1 1/2	2 1/4	3 3/4	7 1/2
8	1	2	3	5	10
12	1 1/2	3	4 1/2	7 1/2	15
16	2	4	6	10	20

*1 tablespoon = 3 teaspoons

MIXING:

Slowly place into spray tank as it is being filled or premix as a slurry prior to adding to spray tank. Add other co-applied fungicides, miticides, insecticides, growth regulators, micro-nutrients, and spray adjuvants after KARATHANE WD fungicide-miticide has been placed into suspension.

COMPATIBILITY:

KARATHANE WD fungicide-miticide is compatible with DIKAR®, DITHANE®, captan, ferbam, glyodin, and thiram fungicides and with most insecticides and miticides including azinphos-methyl, demeton, and parathion. Exceptions are noted under specific use directions. When preparing tank mixes, user should consult current spray compatibility charts or State Extension Service Specialists prior to actual use.

SPRAY ADJUVANTS

The addition of agricultural surfactants to KARATHANE WD fungicide-miticide sprays will improve initial spray deposits, redistribution, and weatherability. The following spray adjuvants have been especially formulated to optimize the performance of foliar-applied agricultural chemicals:

LATRON AG-98™ A low foam, nonionic, general purpose spray adjuvant. May be used in dilute or concentrate sprays applied by aircraft or ground equipment.

LATRON B-1956™ A water-dispersible, resin-based nonionic surfactant which resists re-wetting 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 by aircraft or ground equipment.

Place KARATHANE WD fungicide-miticide into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

APPLICATION

Thorough, full-coverage foliar sprays generally result in optimum powdery mildew and mite control. To achieve good foliar coverage use proper spray pressure, gallonage per acre, spray nozzles, discs, nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

When applied with hand pressurized sprayers, thoroughly spray plant foliage until runoff.

PEST MONITORING

KARATHANE WD fungicide-miticide should be applied when the first signs of powdery mildew are noted or when mites are observed on plant foliage.

RESTRICTIONS

Users should carefully read, understand, and follow all use restrictions prior to using KARATHANE WD fungicide-miticide.

NOT FOR SALE, DISTRIBUTION OR USE IN ARIZONA CALIFORNIA
FOR FORMULATION USE ONLY

KARATHANE[®] TECHNICAL

AGRICULTURAL FUNGICIDE AND MITICIDE

KEEP OUT OF REACH OF CHILDREN

WARNING

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

ACTIVE INGREDIENTS

2,4-Dinitro-6-octyl* phenyl crotonate	}	92.0%
2,6-Dinitro-4-octyl* phenyl crotonate		
Nitrooctyl* phenols (principally dinitro)		5%

INERT INGREDIENTS:	7.5%
.....	100.0%

*A mixture of 1-methylheptyl, 1-ethylhexyl, and 1-propylpentyl isomers.

EPA Reg. No. 707-95
EPA Est. No. 7073T-1

ACCEPTED
APR - 6 1993

NET CONTENTS

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 707-95

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Harmful if swallowed, absorbed through the skin, or inhaled. Causes severe eye irritation. May cause allergic skin reaction in susceptible individuals. Avoid breathing vapors or spray mist. Do not get in eyes, or on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking.

When handling product wear chemical-resistant gloves, chemical-resistant apron, face shield or goggles. Any article of clothing worn while handling product must be cleaned before re-use. Clothing that has been heavily contaminated must be disposed of in accordance with State or local regulations.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

IF INHALED: Move subject to fresh air.

IF ON SKIN: Wash affected skin areas with soap and water.

IF SWALLOWED: Dilute by giving 2 glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Administer sedatives if necessary to control apprehension and excitement. Be prepared to counteract respiratory depression and hypotension, which may occur following the administration of anticonvulsants.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

Note: KARATHANE TECHNICAL is a viscous liquid. DO NOT heat above 90°F (32°C). If heating is necessary for ease of handling or pouring, DO NOT exceed 90°F and DO NOT hold at this temperature for more than 48 hours to avoid possible explosive decomposition. Heating should be done in well ventilated containers and heating rooms.

CONDITIONS

Rohm and Haas wa chemical description stated on the label directions under no MAKES NO OTHER EITHER OF MERCHA ULAR USE. Handling are beyond the conte shall not be liable for personal injury and ding, possession, u same is used alone IN NO EVENT SHA FOR SPECIAL, IN AGES, WHETHER B GENGE OR OTHER

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STORAGE

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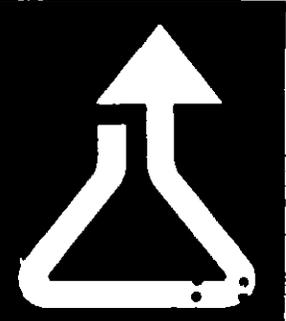
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STEPS TO BE

RELEASED OR S ing vapors. Use apparatus or su confined areas I into a suitable Remove contain skin areas with all sewers and before re-use.



**ROHM
HAAS**
PHILADELPHIA, PA. 19105