

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 20 1989

Mr. John S. Thornton
Mobay Corporation
Agricultural Chemicals Division
P.O. Box 4913
Kansas City, MO 64120-0013

Dear Mr. Thornton:

BEST AVAILABLE COPY

Subject: Revised Precautionary Labeling
Morsestan 25% Wettable Powder
EPA Registration No. 3125-117
Your Application Dated June 17, 1988

The amendment referred to above, submitted in connection with registration under section 3(c)(2)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable, provided that you:

1. Submit/cite all data required for registration/re-registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(a). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

Dennis H. Edwards, Jr.

Dennis H. Edwards, Jr.
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (875050)

Enclosure

31627:I:CR-43:Kumar:LE-1:KENCO:7/14/89:8/25/89:dg:gj:vo:de:rw

U.S. LABEL

Reason to Issue: Propose toxicity
Category II because of effects on
eyes.

Date of Draft: 6/14/88 (Pre-Reg) (S)

EPA Reg. No. 3125-117

MORESTAN[®]

25% Wettable Powder

MITICIDE - FUNGICIDE - INSECTICIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 20 1988

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

3125-117

ACTIVE INGREDIENT:

6-Methyl-1,3-dithiolo[4,5-b]
quinoxalin-2-one 25%

AMENDMENT

To Previously Registered Labeling

Revise as Follows:

KEEP OUT OF THE REACH OF CHILDREN

WARNING

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. May be harmful if inhaled. Do not get in eyes. Avoid contact with skin or clothing. Wear goggles, face shield, or safety glasses when handling the wettable powder. Avoid breathing spray mist. Wash thoroughly with soap and warm water after handling. Remove and wash contaminated clothing with soap and hot water before reuse.

Under conditions of bright sunlight, particularly if wind is present, some persons spraying MORESTAN 25% Wettable Powder experience a skin reaction on exposed parts of the body similar to sunburn. When applying sprays containing more than 1/2 lb. MORESTAN 25% Wettable Powder per 100 gal. water it is recommended that sufficient clothing be worn to cover most body areas and that a suitable sun-screen lotion such as Uval (Dome Laboratories) or Solbar (Person and Covey), be applied to body areas necessarily left uncovered such as the neck and face.

Do not contaminate feed or food. Keep out of reach of children.

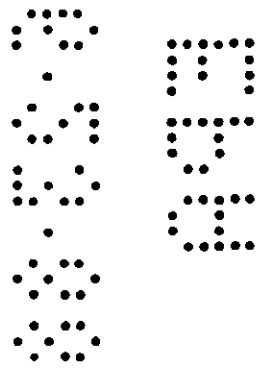
STATEMENTS OF PRACTICAL TREATMENT

If in eyes, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Call a physician if irritation persists or develops after flushing. If swallowed, administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Get medical attention immediately. If on skin, wash skin immediately with soap and warm water. If irritation occurs, get medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

TO PHYSICIAN: No specific antidote is available. Treat symptomatically.

ENVIRONMENTAL HAZARDS

MORESTAN is toxic to fish. Do not apply where runoff is likely to occur. In cleaning of equipment or disposal of wastes, do not contaminate streams, lakes, or ponds with this material.



117-6632.YLD

Base Pre-Reg. (6632) 4

U.S. LABEL

Reason to Issue: To revise directions for use on strawberries and propose separate recommendation.

Date of Draft: 2/8/89 (S)
Supersedes Pre-Reg Drafts Dated: 6/10/88 and 11/3/88.

EPA Reg. No. 3125-117

MORESTAN[®]

25% Wettable Powder

MITICIDE - FUNGICIDE - INSECTICIDE

FOR EFFECTIVE CONTROL OF MITES AND POWDERY MILDEW

NET WEIGHT POUNDS

KEEP OUT OF REACH OF CHILDREN

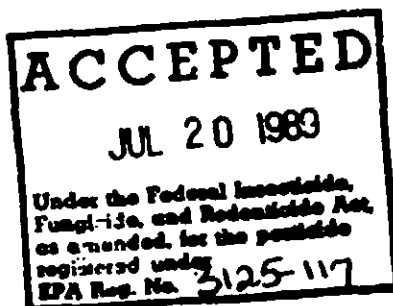
CAUTION

(See rear panel for Statements of Practical Treatment and Other Precautionary Statements)

ACTIVE INGREDIENT:

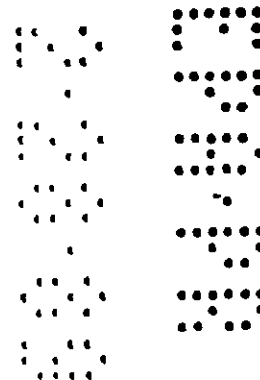
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one 25% ✓

INERT INGREDIENTS: 75% ✓
100%



EPA Reg. No. 3125-117

STOP - READ THE LABEL BEFORE USE



MOBAY CORPORATION
A Bayer USA INC. COMPANY
AGRICULTURAL CHEMICALS DIVISION
Box 4913, Kansas City, Mo. 64120

Note: Underlined letters in chemical nomenclature should be italicized when printed, not underlined.

MORESTAN 25% Wettable Powder Miticide-Fungicide-Insecticide

AVISO

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: Read these entire Directions and Conditions of Sale before using MORESTAN 25% Wettable Powder miticide-fungicide-insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MOBAY OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MOBAY AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

MORESTAN 25% Wettable Powder is recommended for residual control of aphids, mites, mite eggs, and powdery mildew. The formulation mixes readily with water to form a suspension which is usable in all conventional hand or machine-operated sprayers. For best results, apply a thorough coverage before mites or mite eggs are present in large numbers and before mites cause bronzing of the foliage. Apply during good drying conditions. (See Restrictions). Consult your State Agricultural Extension Service or Experiment Station for detailed information on timing of applications for most effective control.

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

RECOMMENDED APPLICATIONS

CROP	PEST	Pounds MORESTAN 25% WP	REMARKS
BEARING FRUIT <u>Pre-Bloom & Post-Harvest</u> Apples Pears	Powdery Mildew (See NOTE in Remarks)	1/2 to 1	Apply specified dosage per 100 gallons of water in pre-bloom sprays (delayed dormant, pre-pink, or pink). Do not apply after first bloom. Additional applications may be made before foliage after harvest.
	Mites Mite eggs		NOTE: Pre-bloom sprays with MORESTAN 25% W.P. will provide effective control of early season powdery mildew infections. No additional fungicides are needed for powdery mildew control during the pre-bloom period. Use other recommended fungicides in post-bloom spray programs for seasonal control.
	Pear psylla	1-1/2	

RECOMMENDED APPLICATIONS

CROP	PEST	Pounds MORESTAN 25% WP	REMARKS
BEARING FRUIT Apricots (Post-harvest only)	(Cont'd) Mites (except cyclamen mite) Mite eggs	4	Apply specified dosage per acre in a minimum of 10 gallons of water per acre by air or 40 gallons of water per acre by ground. For best control thorough coverage of all surfaces is necessary. Make only one application between harvest and up to the time trees break dormancy. Do not graze cover crops.
BEARING CITRUS TREES Citrus (California, Arizona, Texas, and Florida only)	Citrus red mite Citrus rust mite Texas citrus mite Mite eggs	5	Apply specified dosage per acre by concentrate or dilute ground spray using 20 to 500 gallons of water per acre. Schedule applications no closer than 90 days apart in Texas and Florida, or 180 days apart in California or Arizona. Allow at least 21 days between last application and harvest. NOTE: No more than 1 (one) application may be made to bearing fruit.
NON-BEARING FRUITS Apples	Powdery Mildew Mites Mite eggs	1/2 to 1	Apply specified dosage per 100 gallons of water.* Spray all foliage surfaces including the underside of leaves for complete coverage. Repeat as necessary. For control of powdery mildew, begin preventive applications before disease appears and apply at 7- to 14-day intervals. During heavy infection periods, make more frequent applications. Do not apply to fruit trees that will bear fruit within one year of application.
Apricots Cherries Nectarines Peaches Pears Plums Prunes	Mites (except cyclamen mite) Mite eggs	1/2 to 1	
Citrus	Citrus red mite Citrus rust mite Texas citrus mite Mite eggs	1 to 1-1/2	Apply specified dosage per 100 gallons of water. Spray all surfaces, including the underside of leaves for complete coverage. Repeat as necessary. Do not apply to trees that will bear fruit within one year of applications.

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MORESTAN 25% Wettable Powder Miticide-Fungicide-Insecticide

RECOMMENDED APPLICATIONS (Continued)

CROP	PFST	Pounds MORESTAN 25% WP	REMARKS
FRUIT Strawberries (Pre-Bloom Only)	Mites (except cyclamen mite) Mite eggs	1/2 to 1	Apply specified dosage per 100 gallons of water* as a pre-bloom application. Application may be made in propagating beds, and in field plantings during the first year of setting new plants, but not after first bloom. Spray all foliage surfaces, include the underside of leaves for complete coverage. Repeat applications may be made as needed but not after first bloom appears.
NUTS Macadamia Nuts	Mites	1 to 2	Apply specified dosage per 100 gallons of water as a full coverage spray* using up to 400 gallons of finished spray per acre depending upon the number and size of trees. Spray all surfaces including the underside of leaves for complete coverage. Three applications per season may be made up to the day of harvest.
Walnuts	Aphids Mites Mite eggs	1 to 1-1/2	Apply specified dosage per 100 gallons of water as a full coverage spray* using up to 250 gallons of finished spray per acre depending upon the number and size of trees. Spray all foliage surfaces, including the underside of leaves, for complete coverage. Do not apply more than twice per season or within 30 days of harvest.
ORNAMENTALS Flowers Shrubs Trees	Mites Mite eggs	1/2 to 1	Apply specified dosage per 100 gallons of water (1/2 pound of 25% Wettable Powder per 100 gallons = 1 level teaspoonful per 1 gallon). Spray all foliage surfaces including the underside of leaves for complete coverage. Repeat as necessary. (See Restrictions)

*The dosage of MORESTAN 25% Wettable Powder is calculated for conventional sprayers. When lower volumes of spray are applied per acre as with low-pressure, low-volume, airplane, or mist-type equipment, increase the concentration of MORESTAN 25% Wettable Powder in the spray mixture in order to apply the amount of MORESTAN 25% Wettable Powder per acre equivalent to a full coverage spray.

RESTRICTIONS

Under certain adverse weather conditions, particularly those that create slow drying of spray deposits, injury may occur to foliage of strawberries, deciduous fruit trees, and ornamentals having new and/or tender growth.

Do not use summer oils if MORESTAN 25% Wettable Powder is used in the cover spray program.

Do not use spreader-sticker materials with MORESTAN 25% Wettable Powder.

Do not allow sprays to drift onto other crops, including pastures. Do not graze treated areas.

Do not use on other crops used for food and forage. Use only according to label directions. Applications at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse.

Phytotoxicity has occurred on the foliage and flowers of several varieties of roses, especially during periods of high temperatures. Treat roses only after cutting and before new growth appears. Before treating large plantings for the first time, treat a few plants and observe for 4 or 5 days. Under certain conditions, some injury to other ornamentals may occur.

RE-ENTRY STATEMENTS

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. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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 should include those statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING, area treated with MORESTAN 25% Wettable Powder on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).**

STORAGE AND DISPOSAL

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Do not use container in connection with food, feed, or drinking water. 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.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing of spray mist. Wash thoroughly with soap and warm water after handling.

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If swallowed, administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Get medical attention immediately. If on skin, wash skin immediately with soap and warm water. If irritation occurs, get medical attention. If eyes are contaminated, wash with plenty of water for at least 15 minutes. Get medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth... Get medical attention.

TO PHYSICIAN: No specific antidote is available. Treat symptomatically.

ENVIRONMENTAL HAZARDS

MORESTAN is toxic to fish. Do not apply where runoff is likely to occur. In cleaning of equipment or disposal of wastes, do not contaminate streams, lakes, or ponds with this material.

MORESTAN is a Reg. TM of Bayer AG, Germany.