



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

APR 18 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Karen S. Cain  
MILES INC.  
8400 Hawthorn Road - P.O. Box 4913  
Kansas City, MO 64120-0013

Subject: Label Amendment Submission of 10/12/93 in Response to PR Notice 93-7  
EPA Reg. No. 3125-111  
METASYSTOX-R SPRAY CONCENTRATE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Candla Ink on paper that  
contains at least 50% recycled fiber

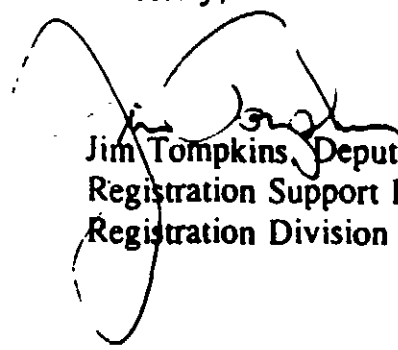
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

Karen S. Cain  
Miles Inc.

Comments for: EPA REG. NO. 3125-111  
METASYSTOX-R SPRAY CONCENTRATE

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The Agricultural Use Requirements section must either be placed in a clearly separate box or printed on the label in a contrasting color from surrounding text.

Change the language in your AGRICULTURAL USE REQUIREMENTS BOX to reflect the following change: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals."

The chemical resistant protective suit or your proposed label should be changed to "coveralls worn over long-sleeved shirt and long pants". If you decide to retain the chemical resistant suit, you will have to include label requirements for a heat stress management program. Add a chemical resistant apron for mixing, loading and cleaning equipment if you delete chemical resistant protective suit.

METASYSTOX-R SPRAY

**Reason to Issue:** To revise in accordance  
with Worker Protection Standard,  
PR Notice 93-7.

Date of Draft: 06/08/93(Pre-Reg)(C)  
Supersedes Drafts Dated: 05/15/92 and 09/02/92

## RESTRICTED USE PESTICIDE

Due to Reproductive Effects

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during mixing, loading, equipment repair, and equipment cleaning. Certified applicators must ensure that all persons involved in these activities under their direct supervision are informed of the precautionary statements.

# METASYSTOX<sup>®</sup>-R

## SPRAY CONCENTRATE

### SYSTEMIC INSECTICIDE

#### FOR EFFECTIVE SYSTEMIC CROP PROTECTION

**ACTIVE INGREDIENT:**

S-[2-(Ethylsulfanyl)ethyl]O,O-dimethyl phosphorothioate ..... 25%

**INERT INGREDIENTS:** ..... 75%

100%

Contains 2 lb S-[2-(Ethylsulfanyl)ethyl]O,O-dimethyl phosphorothioate per U.S. gallon.

(This product contains aromatic petroleum distillates.)

EPA Reg. No. 3125-111

Net Contents: \_\_\_\_ U. S. Gallons

**STOP - READ THE LABEL BEFORE USE**

**KEEP OUT OF REACH OF CHILDREN**

## WARNING AVISO

(See Rear Panel for Statements of Practical Treatment and Additional Precautionary Statements)

~~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.)~~

~~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.)~~

**FLAMMABLE! KEEP AWAY FROM HEAT AND OPEN FLAME**

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

APR 18 1993

**MILES** 

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

3125-111

**BEST AVAILABLE COPY**

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, or 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 wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

## PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and 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). 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.

The 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

PPF 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:

- Chemical-resistant protective suit
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using METASYSTOX-R Spray Concentrate systemic 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. MILES 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 MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

METASYSTOX-R systemic insecticide penetrates by absorption and is translocated in the plant. The best time to apply METASYSTOX-R Spray Concentrate is early morning or evening, especially when crops such as alfalfa and cotton are in bloom. This practice will minimize the possibility of beneficial pollinating insects, including honeybees, coming into contact with the spray.

**MIXING:** METASYSTOX-R Spray Concentrate forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water, pour the required amount of METASYSTOX-R Spray Concentrate into full amount of water and then agitate.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**Agitation:** For application of METASYSTOX-R Spray Concentrate alone, a chemical supply tank is not necessary for premixing since METASYSTOX-R Spray Concentrate mixes well with water in the irrigation line. If a chemical supply tank is used, for application of METASYSTOX-R Spray Concentrate alone or in combination with other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

**Chemical Supply Tank Dilution:** If a chemical supply tank is used, you must determine the required amounts of METASYSTOX-R Spray Concentrate and water to mix in the tank.

The amount of METASYSTOX-R Spray Concentrate needed equals the number of pints of METASYSTOX-R Spray Concentrate to be applied per acre multiplied by the number of acres to be chemigated.

The amount of emulsion needed equals the gallons of emulsion delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

The amount of water needed equals the amount of emulsion needed minus the amount of METASYSTOX-R Spray Concentrate needed.

For example, if you want to apply 1 pint of METASYSTOX-R Spray Concentrate per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 1 pint METASYSTOX-R Spray Concentrate per acre X 130 acres = 130 pints or 16.25 gallons of METASYSTOX-R Spray Concentrate. And, you need: 15 gallons per hour X 20 hours = 300 gallons of emulsion, minus 16.25 gallons of METASYSTOX-R Spray Concentrate = 283.75 gallons of water.

**Cleaning the Chemical Injection System:** In order to accurately apply pesticides, the chemical injection system must be kept clean; free from chemical or fertilizer residues and sediments. Refer to your owners manual or ask your equipment supplier for the cleaning procedure for your injection system.

**Flushing the Irrigation System:** At the end of the application period, allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

#### SPRINKLER IRRIGATION SYSTEMS

All directions and requirements listed under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATIONS SYSTEMS section of this label must be followed for sprinkler irrigation systems.

In addition, the following directions apply to sprinkler irrigation systems.

Do not apply when wind speed favors drift beyond the area intended for treatment.

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

**Center-Pivot and Automatic-Move Linear Systems:** Inject the specified dosage per acre continuously for one complete revolution or move of the system. DO NOT USE END GUNS. The system should be run at maximum speed.

**Solid Set and Manually Controlled Linear Systems:** Injection should be during the last 30 to 60 minutes of a regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. DO NOT USE END GUNS.

**Low Pressure Irrigation Systems (Mini-sprinkler systems only):** All directions and requirements listed under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS section of this label must be followed for low pressure Mini-sprinkler irrigation systems.

In addition, the following directions apply to low pressure irrigation systems.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Injection should be during the last 30 to 60 minutes of a regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation.

For systems which do not wet the entire crop area, apply proportionately less than the specified broadcast rate per acre based on the area wetted. For example, if 50% of the crop area is wetted by the irrigation system, apply one half of the specified broadcast rate per acre.

74B

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS METASYSTOX-R SC	REMARKS
<b>FIELD CROPS</b> (Continued) Sorghum	Greenbugs Corn leaf aphids Yellow Sugarcane aphid	1 to 2	<p>Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than one gallon per acre. Use the higher dosage for control of mites. Do not apply more than 3 times per season nor within 45 days of harvest of grain or 21 days of grazing or cutting for forage. Do not use on sweet sorghum.</p> <p><b>CAUTION:</b> Since certain sorghum varieties may be sensitive to organophosphate insecticides, METASYSTOX-R Spray Concentrate should be applied to a small area of the field and observed for a few days to determine if any crop injury will occur.</p> <p>For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.</p> <p><b>NOTE:</b> Due to greenbug resistance in certain areas, METASYSTOX-R insecticide used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.</p>
	Banks grass mites (Southwest only including Kansas, Oklahoma, Texas, Colorado, New Mexico, and Arizona)		
Sugar beets	Aphids Leafhoppers Mites	1-1/2 to 3	<p>Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than 6 times per season. Do not harvest beets or use beet tops for feed or forage within 30 days of last application.</p> <p>For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.</p>
<b>SEED FIELD CROPS</b> Alfalfa Clover	Aphids Leafhoppers Mites Thrips Lygus bugs (California only)	1-1/2 to 2	<p>Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Repeat as necessary up to 21 days before seed harvest. Chaff from seed crop may be used for feed or forage, but do not cut green crop for these purposes.</p> <p>For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.</p>

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS METASYSTOX-R SC	REMARKS
<b>VEGETABLES</b> Beans (snap and lima)	Leafhoppers Mites	2	Apply specified dosage in at least 4 gallons of water per acre. Three applications may be made per picking season with the last application no later than 21 days before harvest. Do not graze or cut treated vines for feed or forage within 21 days of application.
	Lygus bugs (California only)		For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
Broccoli Brussels Sprouts Cauliflower	Aphids	1-1/2 to 2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than 3 times per season nor within 10 days of harvest for brussels sprouts or 7 days of harvest for broccoli and cauliflower.
			For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
Cabbage (Includes tight-heading varieties of Chinese cabbage)	Aphids	1-1/2 to 3	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than 3 times per season nor within 7 days of harvest.
			For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
Cucumbers	Aphids Mites	1-1/2 to 2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than twice per season.
			For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
Eggplant	Aphids Mites	2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than 3 times per season nor within 7 days of harvest.
			For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.



CROP	INSECT	PINTS METASYSTOX-R SC	REM/ RKS
<b>MELONS</b> Muskmelon (Cantaloupes) Other melons	Aphids Mites	1-1/2 to 2	<p>Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than 3 times per season nor within 14 days of harvest.</p> <p>For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the <b>CHEMIGATION</b> section of this label.</p>
Watermelons	Aphids Mites	1-1/2 to 2	<p>Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Do not apply more than twice per season nor within 7 days of harvest.</p> <p>For application by sprinkler irrigation systems: Apply specified dosage per acre. Follow all directions given under the <b>CHEMIGATION</b> section of this label.</p>
<b>NUTS</b> Filberts (Oregon and Washington only)	Aphids	1 pint per 10 trees (average 4-1/2 inches diameter)	<p>Apply either undiluted or diluted with an equal volume of water. For undiluted application apply 1/3 fluid ounce (2 teaspoonsful) of product per inch of trunk diameter. For diluted application apply 2/3 fluid ounce of mixture per inch of trunk diameter. One pint of product is sufficient to treat 10 trees averaging 4-1/2 inches in diameter when applied diluted or undiluted. Apply specified dosage with a paint brush or low pressure sprayer in a band completely around the trunk. On trees with extremely short trunks it may be necessary to treat bases of scaffold limbs in order to apply the correct dosage. Width of the treated band will vary with trunk diameter. Do not apply more than once per season nor within 105 days of harvest. Do not use on heavily stressed trees or on young trees with trunk diameters less than 2 inches.</p>
Walnuts	Aphids Mites	1-1/2	<p>Apply specified dosage per 100 gallons of water as a full coverage spray*. Do not apply more than once per season nor within 30 days of harvest.</p>
<p>* This dosage of METASYSTOX-R Spray Concentrate 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 METASYSTOX-R Spray Concentrate in the spray mixture in order to apply amount of METASYSTOX-R Spray Concentrate per acre equivalent to a full coverage spray but in no case use less than one gallon of water per acre.</p>			

### ORNAMENTAL USE BY SOIL INJECTION

~~METASYSTOX R~~ insecticide is translocated upward in the plant. Due to this method of movement in the plant, non-target or beneficial insects will be unaffected by the use of ~~METASYSTOX R~~.

**MIXING:** The preparation of the solution to be used in all soil injection equipment must be done only at a central loading site having all appropriate protective equipment. The mixer/loader must wear boots, apron and gloves of rubber or similar impermeable material so that no exposures to ~~METASYSTOX R~~ Spray Concentrate or the solution can occur. The use of a face shield is also required. Mix the recommended amount of ~~METASYSTOX R~~ Spray Concentrate in the solution to be injected in the soil using adequate agitation to ensure a uniform mixing of the product.

Closed systems for mixing and/or loading this product must be capable of removing the pesticide from the chipping container, rinsing the container, and transferring

the pesticide and the rinse into mixing tanks and/or application equipment. Protective clothing and equipment, specified in the pesticide labeling must also be used when mixing and/or loading this pesticide.

**DOSAGE:** Use specified dosage of ~~METASYSTOX R~~ Spray Concentrate in the amount of water necessary to give complete coverage in the area being injected.

**SOIL INJECTION:** When injecting the solution of ~~METASYSTOX R~~ Spray Concentrate in the soil splash guards or similar devices should be used. Do not pressurize or turn on the injector unit prior to placing the injector probe in the soil. Inject only the amount of solution which can be absorbed into the soil.

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

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS METASYSTOX R SPRAY CONCENTRATE	REMARKS
ORNAMENTALS SOIL INJECTION Shade and Nursery Trees Shrubs	Aphids European elm scale Elm leaf beetle Mites Leafminers	1 to 1.5 fl oz per inch of trunk diameter*	Mix product in equal or greater volumes of water as needed for equipment used. Apply using equipment capable of injecting material 6 inches or more below surface, and carefully metering volume used to reach recommended dose. Make two times as many probe insertions as inches of diameter at breast height measurement (DBH). (See Note).
<b>NOTE:</b> Applications to non container trees, shrubs and other ornamentals should be made around the general area of the drip line. Watering of the treated area should follow application to activate and promote uptake of <del>METASYSTOX R</del> insecticide. Watering should be sufficient to reach the roots (12 to 24 hours of slow soaking), but should not cause run off from the treated area. Measurement to determine rate on shrubbery should be obtained by estimating total diameter of individual shrub stems at or near soil level.			
* See MIXING instructions.			

## PROTECTIVE CLOTHING, EQUIPMENT AND WORK SAFETY STATEMENTS FOR ORNAMENTAL SOIL INJECTION

~~REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.~~

Keep all unprotected persons, children, livestock, and pets away from treated areas where pesticide can be contacted.

Do not rub eyes or mouth with hands. If you feel sick in any way, STOP WORK and get help right away. See First Aid (Practical Treatment) section of this label.

If handled indoors, provide mechanical exhaust ventilation.

~~HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT.~~

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. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

~~IF MIXING AND/OR LOADING IN A CLOSED SYSTEM WEAR THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT.~~

# METASYSTOX-R 2

Reason to Issue: To revise per internal comments and remove from the scope of the Worker Protection Standard.

U.S. LABEL

Date of Draft: 10/07/93(Pre-Reg)(C)

Supersedes Drafts Dated: 05/28/92 and 06/08/93

## RESTRICTED USE PESTICIDE

Due to Reproductive Effects

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during mixing, loading, equipment repair, and equipment cleaning. Certified applicators must ensure that all persons involved in these activities under their direct supervision are informed of the precautionary statements.

## METASYSTOX<sup>®</sup>-R 2

### ORNAMENTAL INSECTICIDE

FOR EFFECTIVE SYSTEMIC PROTECTION

#### ACTIVE INGREDIENT:

S-[2-(Ethylsulfinyl)ethyl]O,O-dimethyl phosphorothioate ..... 25%

INERT INGREDIENTS: ..... 75%

100%

Contains 2 lb S-[2-(Ethylsulfinyl)ethyl]O,O-dimethyl phosphorothioate per U.S. gallon.  
(This product contains aromatic petroleum distillates.)

EPA Reg. No. 3125-111

Net Contents: \_\_\_\_ U. S. Gallons

STOP - READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

## WARNING AVISO

(See Rear Panel for Statements of Practical Treatment and Additional Precautionary Statements)

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.

~~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.)~~

FLAMMABLE! KEEP AWAY FROM HEAT AND OPEN FLAME

MILES 

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

APR 18 1994

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

3125-111

BEST AVAILABLE COPY

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, or 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 wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

## PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and 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.

**NOTE:** Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using METASYSTOX-R 2 Ornamental 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. MILES 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 MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

### ORNAMENTAL USE BY SOIL INJECTION

METASYSTOX-R insecticide is translocated upward in the plant. Due to this method of movement in the plant, non-target or beneficial insects will be unaffected by the use of METASYSTOX-R.

**MIXING:** The preparation of the solution to be used in all soil injection equipment must be done only at a central loading site having all appropriate protective equipment. ~~The mixer/loader must wear boots, apron and gloves of rubber or similar impermeable material so that no exposures to METASYSTOX-R 2 Ornamental insecticide or the solution can occur. The use of a face shield is also required.~~ Mix the recommended amount of METASYSTOX-R 2 Ornamental insecticide in the solution to be injected in the soil using adequate agitation to ensure a uniform mixing of the product.

Closed systems for mixing and/or loading this product must be capable of removing the pesticide from the shipping container, rinsing the container, and transferring the pesticide and the rinsate into mixing tanks and/or application equipment. Protective clothing and equipment, specified in the pesticide labeling must also be used when mixing and/or loading this pesticide.

**DOSAGE:** Use specified dosage of METASYSTOX-R 2 Ornamental insecticide in the amount of water necessary to give complete coverage in the area being injected.

**SOIL INJECTION:** When injecting the solution of METASYSTOX-R 2 Ornamental insecticide in the soil splash guards or similar devices should be used. Do not pressurize or turn on the injector unit prior to placing the injector probe in the soil. Inject only the amount of solution which can be absorbed into the soil.

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

**BEST AVAILABLE COPY**

## STORAGE AND DISPOSAL

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

**Pesticide 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:**

**Non-refillable Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by any procedure approved by state and local authorities.

**Non-refillable Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Returnable Refillable Sealed Container:** Do not rinse container. Do not break seals. Replace the dust cover cap and return container intact to point of purchase.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store away from heat and open flame. 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 container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

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