

3125-111

9-21-1977

ACCEPTED

SEP 21 1977

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND ROBOTICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
UNDER NO. 3125-111

# Metasystox-R

## Spray Concentrate systemic insecticide for effective systemic crop protection.

### Aviso.

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.)

### ACTIVE INGREDIENT:

S-[2-(Ethylsulfinyl)ethyl] O,O-  
dimethyl phosphorothioate ..... 25%  
Aromatic Petroleum Distillate ..... 14%

INERT INGREDIENTS: ..... 61%  
100%

EPA Reg. No. 3125-111-AA

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

**WARNING—FLAMMABLE!** Keep  
away from heat and open flame.

**STOP—Read the label before use.**

### WARNING.

Keep out of reach of children.  
(See back side for warning statements.)



Chemagro Agricultural Division  
Möbay Chemical Corporation  
Box 4913, Kansas City, Mo. 64120

### DIRECTIONS FOR USE.

**IMPORTANT:** Read these entire Directions  
and Conditions of Sale before using META-  
SYSTOX-R Spray Concentrate.

### CONDITIONS OF SALE:

The directions on this label were deter-  
mined through research to be the direc-  
tions 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 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 the crop to which the  
product is applied, other crops, animals,  
man, or the environment. Chemagro and  
the seller offer, 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 Chemagro and are, therefore,  
the responsibility of the buyer.

METASYSTOX-R systemic insecticide pen-  
etrates by absorption and is translocated in the  
plant. The best time to apply METASYSTOX-R  
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 honey-  
bees, 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.

### DOSAGE:

Use specified dosage of METASYSTOX-R  
Spray Concentrate in the amount of water  
necessary to give complete coverage of foliage  
but in no case use less than one gallon of  
water per acre. The type equipment used will  
determine the concentration required.

### SPRAYING:

Work to windward. Protect sprayer oper-  
ators from drift or mist. When low volumes of  
spray are applied, complete coverage and  
thorough application are essential for most  
effective results. Schedule applications in  
accordance with local conditions. Consult your  
State Agricultural Experiment Station or Exten-  
sion Service for specific use information and  
for State regulations which may contain addi-  
tional restrictions or requirements.

## RECOMMENDED APPLICATIONS

CROP	INSECT	Plats METASYSTOX-R SC <sub>2</sub>	REMARKS
FIELD CROPS	Aphids Mites	1½ 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 14 days of picking. Do not graze or feed gin trash to dairy or meat animals.
	Lygus bugs (California Only)		
Corn	Aphids Leafhoppers Mites Thrips	1½ 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 once per season nor within 7 days of harvest of corn, or within 7 days of foraging or harvest of corn fodder.
Pepper- mint Sagebrush	Aphids Mites	3	Apply specified dosage in at least 20 gallons of water per acre with ground equipment. For established infestations make 2 applications 10 to 14 days apart. Do not apply within 14 days of harvest.
Sorghum	Greenbugs Corn leaf aphids	1 to 2	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.
	Banks grass mites (Southwest only including Kansas, Oklahoma, Texas, Colorado, New Mexico, and Arizona)		
Super beans	Aphids Leafhoppers Mites	1½ 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 6 times per season. Do not harvest beans or use beet tops for feed or forage within 30 days of last treatment.
SEED FIELD CROPS	Aphids Leafhoppers Mites Thrips	1½ to 2	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.
	Lygus bugs (California Only)		
FRUITS Black- berries Rasp- berries	Aphids Mites	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray* applying not more than 600 gallons of water per acre. Do not apply more than once per season nor within 14 days of harvest.
Grape- fruit Lemons Oranges	Aphids Texas citrus mite	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray*. Do not apply more than twice per season nor within 7 days of harvest.
Pears	Aphids Mites	1	Apply specified dosage in 100 gallons of water as a full coverage spray*. Do not apply more than once per season nor within 30 days of harvest.
Plums Prunes	Aphids Mites	1	Apply specified dosage in 100 gallons of water as a full coverage spray*. Do not apply more than twice per season nor within 35 days of harvest.
Straw- berries	Aphids Mites	1½ 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 twice per season nor within 14 days of harvest.
NON-BEARING FRUITS	Azobes Apricots Cherries Chest- nuts Apples Grapes Nectar- ines Peaches Plums Prunes Quinces	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray* on non-bearing trees. Repeat as necessary. Do not apply to trees that will bear fruit within the next 12 months.
	Aphids Mites		
Citrus	Aphids Texas citrus mite		
VEGETABLES 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)		
Brussels Sprouts Cauli- flower	Aphids	1½ 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 3 days of harvest for brussels sprouts or 7 days of harvest for broccoli and cauliflower.

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## RECOMMENDED APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	REMARKS
Cabbage	Aphids	1½ 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.
Cucumbers	Aphids Mites	1½ 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.
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.
Head Lettuce	Aphids Mites	1½ 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 28 days of harvest.
Peas (North Central)	Aphids	1½	Apply specified dosage in at least 4 gallons of water per acre. Up to 3 applications may be made per 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.
Peppers	Aphids	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.
Potatoes	Aphids Flea beetle Leafhoppers	1½ to 2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Repeat as necessary. Do not apply within 7 days of harvest.
Pumpkin Squash (Winter & Summer)	Aphids	1½ 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 once per season. Do not apply within 14 days of harvest of pumpkins or winter squash nor within 1 day of harvest of summer squash.
Turnips	Aphids Mites	1½ 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 nor within 28 days of harvest if tops are to be used for food nor within 7 days of harvest if tops are not to be utilized.
MELONS Muskmelon (Cantaloupe) Other melons	Aphids Mites	1½ 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 14 days of harvest.
Water-melons	Aphids Mites	1½ 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 nor within 7 days of harvest.
NUTS Walnuts	Aphids Mites	1½	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.
ORNAMENTALS FOLIAR SPRAY Flowers, Shrubs, & Trees	Aphids Birch leaf miner Holly leaf miner Leafhoppers Mites Thrips Whiteflies	1½	Apply specified dosage in 100 gallons (1½ teaspoons per gallon) of water as a full coverage spray. Repeat as necessary. Do not handle treated plants until spray deposit has dried. Injury has occurred in greenhouses on chrysanthemum varieties: Hurricane, Iceberg, Whitetop, and Poem and on Easter lilies. When large plantings of Chrysanthemums or Easter lilies are to be sprayed, treat only a few plants and observe for varietal sensitivity before treating the entire planting.
Shade & Nursery Trees (Including Christmas trees grown under cultivation)	Aphids Birch leaf miner Holly leaf miner Leafhoppers Mites Thrips	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray, using approximately 200 to 300 gallons per acre. Repeat as necessary.  NOTE: This dosage is calculated for conventional sprayers. When lower volumes of spray are applied per acre, as with low-pressure low-volume equipment, increase the concentration of METASYSTOX-R in the spray mixture in order to apply amount of METASYSTOX-R per acre equivalent to a full coverage spray but in no case use less than one gallon of water per acre. Do not apply by aircraft or mist-type ground equipment.
	Pine Needle scale	2	
	Sitka Spruce weevil White Pine weevil	8 (1 gallon)	Mix specified amount in 24 gallons of water. This is equivalent to 1.0% concentrate. Apply 2 to 4 gallons of water emulsion per acre using ground equipment only that will provide uniform coverage. Repeat as necessary. Do not apply by aircraft or mist-type ground equipment.

## RECOMMENDED APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	REMARKS
SOL. DRENCH Chrysanthemum	Aphids Mites Thrips	¼	Potted plants: Mix specified dosage in 50 gallons (1½ tsp. per gallon) of water to form an emulsion. For potted plants apply ½ cup (4 fluid ounces) of the emulsion per 6 to 8 inch pot. Repeat as necessary to maintain insect control.
Dahlia	Mites		
Roses	Aphids		
Cuban laurel	Cuban laurel thrips	½	For plants in nursery cans, boxes or other containers: Mix specified dosage in 50 gallons (1 tsp. per gallon) of water to form an emulsion. Use 1 quart of emulsion for each 5 gallons of plant container capacity.
		1½	For established trees: (Street trees, trees in parks, etc. where basin method of irrigation is used). Mix specified dosage in 50 gallons (2½ tsp. per gallon) of water to form an emulsion. Use 4 gallons of emulsion per inch of trunk diameter. Keep children and pets away from basin until material has soaked into soil. Penetration may be aided by drilling holes in the soil.

\*This METASYSTOX-R dosage 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 in the spray mixture in order to apply amount of METASYSTOX-R per acre equivalent to a full coverage spray but in no case use less than one gallon of water per acre.

## RESTRICTIONS.

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

## ENVIRONMENTAL HAZARDS.

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. This product is toxic to bees and should not be applied when bees are actively visiting the area. Keep out of lakes, streams, ponds, tidal marshes and estuaries. 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.

## CONTAINER DISPOSAL.

**DO NOT REUSE THE CONTAINER—** Completely empty the contents and bury the unused chemical at least 18 inches deep in an isolated location away from water supplies. Rinse empty container by filling with water and adding 2 tablespoonfuls of household lye. Bury rinse solution and container at least 18 inches deep in an isolated area away from water supply. Break empty container and bury deeply in an isolated location.

Do not use container in any connection with feed, food, and drinking water.

## WARNING

Causes eye irritation. May be fatal if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Wash thoroughly with soap and warm water after handling. Wash clothing with soap and hot water before reuse.

Avoid contamination of feed or food. Keep out of reach of children.

If splashed in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment, call a physician.

If swallowed, administer milk or water freely

and induce vomiting by giving one dose (½ oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 30 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Professional medical assistance should be secured immediately.

If poisoning occurs, obtain prompt medical aid.

**Note to Physician:** May cause cholinesterase depression. Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

RED BLUE

# Metasystox-R

Spray Concentrate Systemic Insecticide

For effective  
systemic crop protection.

**ACTIVE INGREDIENT:**

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

Aromatic Petroleum Distillate ..... 14%

**INERT INGREDIENTS:** ..... 61%

EPA Reg. No. 3125-111-AA ..... 100%

EPA Est. 3125-MO-1

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

**STOP—Read the label before use.**

**WARNING.**

Keep out of reach of children.  
(See rear panel for warning statements.)

**WARNING—FLAMMABLE!**

Keep away from heat and open flame.

**NET CONTENTS 2 U.S. GALLONS**



Chemagro Agricultural Division  
Mobay Chemical Corporation  
Box 4913, Kansas City, Missouri 64120



**INSECTICIDE LIQUID, N.O.S.**

**Aviso.**

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 En-  
glish, do not use this product until the label has been fully  
explained to you.)

3/4

8-15-77

3459. CENTRAL CAN CO.

2,5 OH-1202

# Metasystox-R

Spray Concentrate Systemic Insecticide

Instructions for use.

## FOR COMPLETE DIRECTIONS FOR USE REFER TO SUPPLEMENTAL LABELING ACCOMPANYING THIS CONTAINER.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using METASYSTOX-R Spray Concentrate.

**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 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 the crop to which the product is applied, other crops, animals, man, or the environment. Chemagro and the seller offer, 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 Chemagro and are, therefore, the responsibility of the buyer.

## Restrictions.

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

## Environmental Hazards.

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. This product is toxic to bees and should not be applied when bees are actively visiting the area. Keep out of lakes, streams, ponds, tidal marshes and estuaries. 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.

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Avoid contamination of feed or food. Keep out of reach of children.

If splashed in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment, call a physician.

If swallowed, administer milk or water freely and induce vomiting by giving one dose (¼ oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 30 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Professional medical assistance should be secured immediately.

If poisoning occurs, obtain prompt medical aid.

**Note to Physician:** May cause cholinesterase depression. Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

METASYSTOX is a Reg. TM of the Parent Company of Farbentzentrin Bayer GmbH, Leverkusen

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# 111 113

REVISIONS ARE COSTLY in time and money					
CUSTOMER		CHEMAGRO #30321			
LABEL		METASYSTOX R			
COLORS		PRT. RED, BLUE ON WHITE			
STYLE		2 1/2 GAL. CLOSED TOP SIZE C.E. 7 1/4 X 3 1/2"			
LEGAL	SEPARATION	SPELLING	PUNCTUATION	TEXT	DESIGN
PLEASE SIGN HERE WHEN JOB IS APPROVED		DATE		INITIALS	CHECKED
				my	
				DATE COMPLETED	
				8-9-77	

The customer whose signature appears at the left hereafter certifies that it has examined the attached proof and it meets with its final approval. CENTRAL CAN COMPANY shall have no responsibility for any design, sketch or label.

101 Does not infringe any state or Federal law or regulation. 102 Does not infringe any patent, copyright, trademark, or other property rights of any person or company. In approving this label, including the design and text portions thereof, the customer acknowledges and affirms that it has checked such label against all applicable laws and regulations. The customer assumes full responsibility for preparation of this label and expressly agrees that it has not relied on CENTRAL CAN COMPANY to furnish or confirm any approval thereof. Since Central does

not furnish instructions, labels, or labeling advice, of its own accord, and since Central has no way of knowing the ultimate use or destination of these containers, the customer agrees to hold CENTRAL CAN COMPANY harmless from and indemnify it from any liability of any kind or claim of liability, and any cost of defending such claim or liability, arising from (1) violation of law or regulation, (2) from direct or indirect injury to person or property, or from any other liability, liability or damage resulting from improper, illegal, or misleading labeling (3) failure to label or otherwise give notice required or permitted under any applicable law or regulation.

The customer is aware that proof colors are not identical to production run colors and approves normal variances which shall be deemed in compliance with the approved proof.

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