

3125-111

8-4-1978

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Metasystox-R

909418

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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-(Ethylsulfanyl)ethyl] O,O-
dimethyl phosphorothioate 25%
Aromatic Petroleum Distillate 14%

INERT INGREDIENTS: 61%

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

Contains 2 lbs. S-[2-(Ethylsulfanyl)
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
Mobay Chemical Corporation
Box 4913, Kansas City, Mo. 64120

ACCEPTED

AUG 4 1978

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 3125-111

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 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.

METASYSTOX-R systemic insecticide penetrates 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 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.

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 operators 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 Extension Service for specific use information and for State regulations which may contain additional restrictions or requirements.

McFarland

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	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 Spearmint	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.
Safflower	Aphids	2	Apply specified dosage per acre in sufficient water for complete coverage, but not less than ten gallons per acre. Do not apply more than 3 times per season nor within 7 days of harvest.
	Lygus bugs	4	
Sorghum	Greenbugs Corn leaf aphids Yellow sugarcane aphid	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. CAUTION: 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. NOTE: Due to greenbug resistance in certain areas, METASYSTOX-R used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.
	Banks grass mites (Southwest only including Kansas, Oklahoma, Texas, Colorado, New Mexico, and Arizona)		
Sugar Beets	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 beets or use beet tops for feed or forage within 30 days of last treatment.
SEED FIELD CROPS			
Alfalfa Clover	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 dilute spray per acre. Do not apply more than once per season nor within 7 days of harvest.
Grapes	Aphids Leafhoppers Mites	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 300 gallons per acre. Do not apply more than 2 times per season nor within 90 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 3 days of harvest.
NON-BEARING FRUITS			
Apples Apricots Cherries Crab Apples Grapes Peaches Plums Prunes Quinces Citrus	Aphids Mites Aphids Texas citrus mite	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.

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	REMARKS
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)		
Broccoli 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.
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.
Cucum- bers	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. In California and Arizona do not apply within 28 days of harvest. In other states do not apply within 21 days of harvest.
Spanish Onions (bulb) (West of the Missis- sippi River only)	Thrips (Population suppression only)	3	Apply specified dosage per acre in sufficient water for complete coverage but not less than ten gallons per acre. For best results make 3 applications at 10 to 14 day intervals with the last application no later than 30 days before 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. Do not apply within 21 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 Musk- melon (Canta- loupe) 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 Filberts (Oregon and Washing- ton only)	Aphids	1 pint per 10 trees (average 4½ inches diameter)	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 4½ 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.
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.

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RECOMMENDED APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	REMARKS
ORNAMENTALS			
FOLIAR SPRAY	Aphids Birch leaf miner Holly leaf miner Leafhoppers Mites Thrips Whiteflies	1 1/2	Apply specified dosage in 100 gallons (1 1/2 teaspoonfuls 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 Pennant 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 1 1/2	Apply specified dosage in 100 gallons of water as a full coverage spray, using approximately 200 to 300 gallons per acre. Repeat as necessary.
	Pine Needle scale	2	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.
	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.
SOIL DRENCH			
Chrysanthemum	Aphids Mites Thrips	3/4	Potted plants: Mix specified dosage in 50 gallons (1 1/2 tsp. per gallon) of water to form an emulsion. For potted plants apply 1/2 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	1/2	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.
		1 1/4	For established trees: (Street trees, trees in parks, etc. where basin method of irrigation is used). Mix specified dosage in 50 gallons (2 1/2 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 (1/2 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.