



METASYSTOX-R

SPRAY CONCENTRATE

SYSTEMIC INSECTICIDE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

GUARANTEE: Contains 2.0 lbs. S-[2-(ethyl-sulfinyl)ethyl] O,O-dimethyl phosphorothioate per U.S. gallon.

NET CONTENTS 5 U.S. GALLONS

WARNING

KEEP OUT OF REACH OF CHILDREN

(See the rear panel for warning statements)

ACTIVE INGREDIENT:

S-[2-(ethylsulfinyl)-ethyl] O,O-dimethyl phosphorothioate 25%
Aromatic Petroleum Distillate 14%
INERT INGREDIENTS: 61%
100%

U.S. Patent No. 2,791,599
Canadian Patent No. 534,370

EPA Reg. No. 3125-111-AA

WARNING—FLAMMABLE! KEEP AWAY FROM
HEAT AND OPEN FLAME

Chemicals for Agriculture

Chemagro

Division Of Baychem Corporation
Box 4913, Kansas City, Missouri 64120

RECOMMENDED METASYSTOX-R 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)		
Cotton			
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.
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 3 times per season. Do not harvest beets or use beet tops for feed or forage within 30 days of treatment.
SEED FIELD CROPS	Aphids Leafhoppers 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 alfalfa and clover seed may be used for feed or forage. Do not cut green crop for hay or forage within 21 days of treatment.
	Lygus bugs (California Only)		
Alfalfa Clover			
FRUITS	Blackberries Raspberries	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 14 days of harvest.
Grapefruit 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.
Strawberries	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	Apples Apricots Cherries Crab Apples Grapes Nectarines 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.
Citrus	Aphids Texas citrus mite		
VEGETABLES	Broccoli Brussels Sprouts Cauliflower	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.
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 14 days of harvest.

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RECOMMENDED METASYSTOX-R APPLICATIONS

CROP	INSECT	Pints METASYSTOX-R SC	REMARKS
VEGETABLES (Cont'd)			
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.
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, within 7 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 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.
Watermelons	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			
Shade & Nursery Trees (including Christmas trees grown under culti- vation)	Aphids Birch leaf miner Holly leaf miner Mites Maple leaf miner Mites Pine Needle Sawfly White Pine Weevil	1 to 1½ 1½ 2 8 (1 gallon)	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 the same amount of active ingredient. For example, a full gallon of water per acre would require 1½ pints of METASYSTOX-R. Do not apply by air craft or mist-type ground equipment. Do not apply by air craft or mist-type ground equipment. 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 Dahlia Roses	Aphids, Mites Thrips Mites Aphids	2, 1½	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. For plants in nursery cans, boxes or other containers: Mix specified dosage in 50 gallons (1½ tsp. per gallon) of water to form an emulsion. Use 1 quart of emulsion for each 5 gallons of plant container capacity.
Cuban laurel	Cuban laurel thrips	1½	For established trees: (Sweet 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.

*The METASYSTOX-R 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 the same amount of active ingredient. For example, a full gallon of water per acre would require 1½ pints of METASYSTOX-R. Do not apply by air craft or mist-type ground equipment.

DIRECTIONS FOR USE

IMPORTANT. Read these entire Directions and Conditions of Sale, including the Warranty and Limitation of Damages provision, before using METASYSTOX-R Spray Concentrate.

CONDITIONS OF SALE. These Directions for Use reflect the opinion of experts based on tests of effectiveness, of toxicity to plants and laboratory animals and of residues on or in food and feed under normal conditions of use. However, because of the wide range of conditions under which this product may be used, even though label directions are followed, it is impossible to eliminate all risks associated with its use because of abnormal conditions beyond the control of the seller. Chemagro and the Seller offer, and the Buyer uses, this product subject to the understanding that the Buyer assumes all such risks.

METASYSTOX-R, a 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. By observing this practice, beneficial pollinating insects, including honey bees, will not be contacted with spray and so are not adversely affected.

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.

DOSEAGE. 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 of 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 additional use information consistent with label directions and cautions.

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.

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Keep out of streams, lakes, or ponds. Do not apply when weather conditions favor drift of spray from treatment area.

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 tablepoonsful 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

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 swallowed, induce vomiting by giving a tablespoonful of salt in a glass of warm water. Administer milk or water freely and again induce vomiting until vomit fluid is clear.

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.

WARRANTY AND LIMITATION OF DAMAGES

Chemagro warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the risks referred to therein. CHEMAGRO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, and no agent of Chemagro is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this Warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or values, etc.

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