

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints SYSTOX 6	REMARKS
FIELD CROPS			
Barley Oats Wheat	Aphids	1/6 to 1/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary but do not apply more than twice per season nor within 14 days of previous application. Do not apply within 45 days of harvest for grain. Do not graze treated fields.
	Mites	1/3	
Cotton	Thrips	1/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of picking. Do not graze dairy or meat animals on treated fields. Do not feed gin waste to livestock.
	Aphids Mites	1/2	
Sorghum	Aphids Mites	1/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than once per season nor within 35 days of harvest of grain or of grazing or cutting for forage.
Sugar Beets	Aphids Mites	2/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary but not more than 3 times per season nor within 30 days of harvest.
Hops	Aphids	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray*, using not more than 200 gallons of dilute spray per acre. Do not apply within 21 days of harvest.
SEED FIELD CROPS			
Alfalfa Clover	Aphids Mites	1/3 to 2/3	Apply specified dosage per acre using a minimum of 10 gallons of water per acre when applying with ground equipment, or a minimum of 2 gallons per acre for aerial applications. Repeat as necessary up to 15 days before harvest. Chaff from seed crop may be used for feed or forage, however, do not cut green crop for these purposes.
FRUITS			
Apples	Aphids	1/6 to 2/3	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1200 gallons of finished spray per acre.* Do not apply the 2/3-pint rate more than once nor the lower rates more than 3 times per season. Do not apply within 21 days of harvest. Lower rates are effective when used in regular preventive spray programs. To control established mite or aphid populations, use the high rate.
	Mites	1/4 to 2/3	
	Unspotted tentiform leaf miner	1/3	
	White apple leafhopper	1/6 to 1/3	
Apricots Nectarines Peaches	Aphids Mites	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Do not apply more than 3 times per season nor within 30 days of harvest.
Pears	Aphids Mites	1/4	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 900 gallons of finished spray per acre. Do not apply more than 3 times per season nor within 21 days of harvest.
	Unspotted tentiform leaf miners	1/3	
Blackberries Dewberries Gooseberries Loganberries Raspberries	Aphids Leafhoppers Mites	1/3 to 2/3	Apply as a post-harvest treatment, in the late summer or fall months only, for reduction of insect infestation and to permit further plant growth. Use specified dosage in 100 gallons of water as a full coverage spray*, applying not more than 600 gallons dilute spray per

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Grapes	Leafhoppers Mites	1/2	Apply specified dosage per acre in sufficient water for complete coverage. Where ground conditions dictate an air application, use specified rate in a minimum of 1 gallon of water per acre. Do not apply within 21 days of harvest.
Strawberries	Aphids Mites (except cyclamen mite)	1/2	
Plums Prunes (Fresh)	Aphids Mites	1/3 to 1/2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Do not apply more than three times per season or within 30 days of harvest at the low rate nor more than twice per season or within 60 days of harvest at the high rate.
NON-BEARING FRUITS			
Stone Fruits	Aphids Mites	1/3 to 2/3	Apply specified dosage in 100 gallons of water as a full coverage spray* on non-bearing stone fruits. Repeat as necessary.
Pineapple	Mites	(See Remarks)	For temporary protection of pineapple planting stock, dip stock in emulsion containing 2/3 pint of SYSTOX 6 per 100 gallons of water. Do not handle treated stock with bare hands.
NUTS			
Almonds Walnuts	Aphids Mites	1	Apply specified dosage per acre, once a season in sufficient water for complete coverage. When ground conditions indicate an air application, use specified rate in a minimum of 1 gallon of water per acre. May be combined with codling moth spray. Do not apply within 21 days of harvest.
Filberts	Aphids	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray*, using not more than 1,000 gallons dilute spray per acre on filberts or 400 gallons on pecans. Repeat as necessary. Do not apply within 40 days of harvest for filberts nor 21 days of harvest for pecans.
Pecans	Aphids Mites	1/3	
VEGETABLES			
Beans	Aphids Mites	1/2 to 2/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest.
Broccoli Brussels Sprouts Cabbage Cauliflower	Aphids	2/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest. First application may be made at specified dosage per 100 gallons of transplant water.
Celery	Aphids Mites	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray*, using not more than 200 gallons of dilute spray per acre at the 1/3-pint rate nor more than 100 gallons per acre at the 2/3-pint rate. Do not apply within 21 days of harvest for lettuce and peas nor within 28 days of harvest for celery.
Lettuce	Aphids	1/3 to 2/3	
Peas	Aphids	1/3	
Eggplant	Aphids	1/3 to 1/2	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than twice per season.

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CROP	INSECT	Pints SYSTOX 6	REMARKS
Potatoes	Aphids Leafhoppers	1/4 to 2/3	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
Tomatoes	Aphids Mites	1/3 to 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
MELONS			
Muskmelons	Aphids Beet leafhopper Mites	1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
ORNAMENTALS: FOR USE BY COMMERCIAL APPLICATORS			
COMMERCIAL GROWERS ONLY			
Flowers Shrubs, & Trees	Aphids Mealybugs Whiteflies Mites	1/6 to 1/4	FOLIAGE: Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
	Birch leaf miner Boxwood leaf miner Holly leaf miner Lace bugs	1/4 to 1/3	SOIL: Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
Chrysanthemums Daffodils Lilies Primroses	Camellia scale Rhododendron scale Soft brown scale Tea scale	1/3	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.
	Foliar nematodes (<i>Ditylenchus</i> sp.) (<i>Aphelenchoides</i> sp.)	1/3 to 2/3	Mix and wet with water. Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 21 days of harvest.

Peaches			Do not apply more than 3 times per season nor within 30 days of harvest.
Pears	Aphids Mites	1/4	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 900 gallons of finished spray per acre. Do not apply more than 3 times per season nor within 21 days of harvest.
	Unspotted tentiform leaf miners	1/3	
Blackberries Dewberries Gooseberries Loganberries Raspberries	Aphids Leafhoppers Mites	1/3 to 2/3	Apply as a post-harvest treatment, in the late summer or fall months only, for reduction of insect infestation and to permit further plant growth. Use specified dosage in 100 gallons of water as a full coverage spray*, applying not more than 600 gallons dilute spray per acre at the 1/3-pint rate nor more than 300 gallons per acre at the 2/3-pint rate.
Grapefruit Lemons Oranges	Aphids Citrus red mite	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1000 gallons of finished spray per acre. Do not apply within 21 days of harvest.

Cauliflower			Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 900 gallons of finished spray per acre. Do not apply more than 3 times per season nor within 30 days of harvest.
Celery	Aphids Mites	1/3	Apply specified dosage in 100 gallons of water as a full coverage spray*, using not more than 200 gallons of dilute spray per acre at the 1/3-pint rate nor more than 100 gallons per acre at the 2/3-pint rate. Do not apply within 21 days of harvest for lettuce and peas nor within 28 days of harvest for celery.
Lettuce	Aphids	1/3 to 2/3	
Peas	Aphids	1/3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than twice per season nor within 7 days of harvest.
Eggplant	Aphids	1/3 to 1/2	
Peppers	Aphids	1/2	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 3 days of harvest.

Chrysanthemums Daffodils Lilies Primroses	Foliar nematodes (<i>Ditylenchus</i> sp.) (<i>Aphelenchoides</i> sp.)	1/3 to 2/3
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*This concentration is calculated for conventional volumes of spray are applied per acre with a concentration of SYSTOX 5 in the spray mixture in 100 gallons per acre. Repeat as necessary. Do not apply more than twice per season nor within 7 days of harvest.

IONS

ARKS

per acre in sufficient
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air application, use
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apply within 21 days

e in 100 gallons of
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than twice per season
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rage spray* on non-
peat as necessary.

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100 gallons of water.
stock with bare hands

per acre, once a sea-
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First application may
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less than 1 gallon per
re than twice per sea-
of harvest.

RECOMMENDED APPLICATIONS

CROP	INSECT	Pints SYSTOX 6	REMARKS
Potatoes	Aphids Leafhoppers	1 4 to 2, 3	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest.
Tomatoes	Aphids Mites	1/3 to 1/2	Apply specified dosage in 100 gallons of water as a full coverage spray*, using not more than 150 gallons of dilute spray per acre at the 1/3-pint rate nor more than 100 gallons per acre at the 1/2-pint rate. Do not apply within 3 days of harvest.
MELONS			
Muskmelons	Aphids Beet leafhopper Mites	1/2	Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. If band spray applications are used, reduce the specified dosage in proportion to the amount of acreage actually sprayed. Repeat as necessary. Do not apply within 21 days of harvest.

ORNAMENTALS: FOR USE BY COMMERCIAL APPLICATORS AND

COMMERCIAL GROWERS ONLY

Flowers Shrubs, & Trees	Aphids Mealybugs Whiteflies Mites	1/6 to 1/4	FOLIAR SPRAY: Mix specified dosage in 50 gallons of water and spray plants until they are thoroughly wet.
	Birch leaf miner Boxwood leaf miner Holly leaf miner Lace bugs	1/4 to 1/3	SOIL DRENCH: Mix specified dosage in 50 gallons of water to form an emulsion (1/3 pint SYSTOX 6 per 50 gallons is equivalent to 2/3 teaspoonful per gallon of water). Apply 1 pint of this emulsion per each square foot of bench or bed area to be treated. For potted plants apply 1/4 pint of emulsion per 6-inch pot. For treatment of shrubs and trees up to 6 feet in height, apply 1 to 2 gallons of the water emulsion around the base of each plant. Use proportionately more for taller plants. Repeat applications as required. Do not apply within 5 days of hand-picking, pruning, transplanting, or other handling. Caution: Phytotoxicity has occurred on African violets, cibotium ferns, and Croft lilies. Caution should be exercised when treating these plants.
	Camellia scale Rhodo- dendron scale Soft brown scale Tea scale	1/3	
Chrysanthemums Daffodils Lilies Primroses	Foliar nematodes (<i>Dity- lenchus sp.</i>) (<i>Aphelen- choides sp.</i>)	1/3 to 2/3	Mix specified dosage in 50 gallons of water and spray plants until they are thoroughly wet (1/3 pint SYSTOX 6 per 50 gallons is equivalent to 2/3 teaspoonful per gallon of water). For use as a soil drench, prepare a SYSTOX emulsion as above and apply 1 pint of the emulsion to each square foot of bench or bed area to be treated. For potted plants, apply 1/4 pint of the water emulsion per 6-inch pot. Apply foliar sprays or soil drenches at 1 to 2-week intervals. Three applications may be required for maximum control of nematodes. The intervals between applications may be extended to 2 to 3 weeks at the 2/3-pint rate. Do not apply within 5 days of hand-picking, pruning, transplanting, or other handling. Caution: Phytotoxicity has occurred on Croft lilies. Caution should be exercised when treating these plants.

DIRECTIONS

IMPORTANT Read these entire Directions and Warranty and Limitation of Damages provision, before using this insecticide.

CONDITIONS OF SALE: These Directions for use are based on tests of effectiveness, or toxicity to plants or on or in food and feed under normal conditions of use. No guarantee is made that this product will perform under all conditions. If the above directions are followed, it is impossible to eliminate all abnormal conditions beyond the control of the user and the Buyer uses, this product subject to all such risks.

SYSTOX 6 emulsifiable systemic insecticide, per acre in the plant. The best time to apply SYSTOX 6 is when crops such as alfalfa and cotton are in full bloom and free of official pollinating insects, including honey bees and so not adversely affected.

MIXING: SYSTOX 6 forms an emulsion when mixed in all power-operated ground sprayers and aerial applicators. The required amount of SYSTOX 6 into full coverage ground application, apply in sufficient water for use the recommended per acre rate in at least 100 gallons of water.

DOSAGE: Use specified dosage of SYSTOX 6 to give complete coverage of foliage. The type of application required.

SPRAYING Work to windward. Protect sprayer and low volumes of spray are applied, complete coverage is essential for most effective results. Schedule applications according to local conditions. Consult your State Agricultural Experiment Station for specific use information consistent with label.

RESTRICTED

Do not use on other crops used for food or forage. Application at rates above those shown may be injurious to livestock in treated orchards or groves. Do not use in or near waterways, streams, rivers, ponds, or tidal marshes and estuaries. Do not use when weather conditions favor drift. Do not apply when weather conditions favor drift. Clean water by cleaning of equipment, or disposal of equipment as specified on this label.

This product is toxic to bees and should not be applied to the area.

CONTAINER

DO NOT RE-USE THE CONTAINER — Complete disposal of unused chemical at least 18 inches deep in an earthen hole. Rinse empty drum by filling with water and 100 gallons of water. Bury rinse solution at least 18 inches from water supply. Punch holes in the top and bottom of the drum and bury deeply in an isolated location.

Do not use container in any connection with other chemicals.

DANGEROUS

Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Wear protective clothing and goggles.

Do not breathe fumes or spray mist. Wear a respirator against demeton insecticide. Information as to availability from the U.S. Bureau of Mines.

Do not contaminate or store near feed or food. Keep all unprotected persons out of the open area. Do not be danger of drift. Vacated areas should not be used until and volatile residues have dissipated. Wash hands and warm water before eating or smoking. Do not use hot water before reuse.

SYMPTOMS OF POISONING: A sense of "tightness" in the chest, nausea, vomiting, and diarrhea.



SYSTOX 6

EMULSIFIABLE SYSTEMIC INSECTICIDE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

GUARANTEE. Contains 6 lbs. demeton per gallon.

**NET CONTENTS
1 GALLON**



POISON

DANGER

**KEEP OUT OF REACH
OF CHILDREN**

ACTIVE INGREDIENTS:

Demeton
O,O-Diethyl; O-[2-(ethylthio)
ethyl] phosphorothioate
mixture with O,O-diethyl
S-[2-(ethylthio)ethyl] phos-
phorothioate 66%

Aromatic Petroleum Distillate 26%

INERT INGREDIENTS: 8%
100%

	Birch leaf miner Boxwood leaf miner Holly leaf miner Lace bugs	1/4 to 1/3	SOIL DRENCH: Mix specified dosage in 50 gallons of water to form an emulsion (1/3 pint SYSTOX 6 per 50 gallons is equivalent to 2/3 teaspoonful per gallon of water). Apply 1 pint of this emulsion per each square foot of bench or bed area to be treated. For potted plants apply 1/4 pint of emulsion per 6-inch pot. For treatment of shrubs and trees up to 6 feet in height, apply 1 to 2 gallons of the water emulsion around the base of each plant. Use proportionately more for taller plants. Repeat applications as required. Do not apply within 5 days of hand-picking, pruning, transplanting, or other handling. Caution: Phytotoxicity has occurred on African violets, cibotium ferns, and Croft lilies. Caution should be exercised when treating these plants.
	Camellia scale Rhododendron scale Soft brown scale Tea scale	1/3	
Nums	Foliar nematodes (<i>Ditylenchus</i> sp.) (<i>Aphelenchoides</i> sp.)	1/3 to 2/3	Mix specified dosage in 50 gallons of water and spray plants until they are thoroughly wet (1/3 pint SYSTOX 6 per 50 gallons is equivalent to 2/3 teaspoonful per gallon of water). For use as a soil drench, prepare a SYSTOX emulsion as above and apply 1 pint of the emulsion to each square foot of bench or bed area to be treated. For potted plants, apply 1/4 pint of the water emulsion per 6-inch pot. Apply foliar sprays or soil drenches at 1 to 2-week intervals. Three applications may be required for maximum control of nematodes. The interval between applications may be extended to 2 to 3 weeks at the 2/3-pint rate. Do not apply within 5 days of hand-picking, pruning, transplanting, or other handling. Caution: Phytotoxicity has occurred on Croft lilies. Caution should be exercised when treating these plants.

Application rate is calculated for conventional hydraulic-type sprayers. When lower spray rates are applied per acre with concentrate sprayers, increase the concentration of SYSTOX 6 in the spray mixture in order to apply amount of active ingredient equivalent to a full coverage spray. Where conditions dictate an air application, the amount of active ingredient per acre equivalent to a full coverage ground spray is not less than one ounce per acre.



SYSTOX 6

EMULSIFIABLE SYSTEMIC INSECTICIDE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

GUARANTEE: Contains 6 lbs. demeton per gallon.

**NET CONTENTS
1 GALLON**

 **POISON** 

DANGER

KEEP OUT OF REACH OF CHILDREN

(See rear panel for antidote and danger statements)

**DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME
DO NOT STORE IN OR AROUND THE HOME ENVIRONMENT**

ACTIVE INGREDIENTS:

Demeton
O,O-Diethyl *O*-[2-(ethylthio)ethyl] phosphorothioate mixture with *O,O*-diethyl *S*-[2-(ethylthio)ethyl] phosphorothioate 66%

Aromatic Petroleum Distillate 26%

INERT INGREDIENTS: 8%

100%

EPA Reg. No. 3125-221-ZA

Do not use on other crops used for food or forage. Application at rates above those shown may result in injury to livestock in treated orchards or groves. Do not use in or near water. This product is toxic to fish, shrimp, birds, and other animals. Do not apply to ponds, tidal marshes and estuaries. Do not apply when weather conditions favor drift of water by cleaning of equipment, or disposal of equipment as specified on this label. This product is toxic to bees and should not be applied to the area.

CONTAINER DISPOSAL

DO NOT RE-USE THE CONTAINER — Complete disposal of unused chemical at least 18 inches deep in an isolated area. Rinse empty drum by filling with water and at least 18 gallons of water. Bury rinse solution at least 18 inches from water supply. Punch holes in the top and bury deeply in an isolated location.

Do not use container in any connection with feed.

DANGER

Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Wear protective clothing and goggles.

Do not breathe fumes or spray mist. Wear a mask against demeton insecticide. Information as to mask type available from the U.S. Bureau of Mines.

Do not contaminate or store near feed or food. Keep all unprotected persons out of the operating area. Be aware of danger of drift. Vacated areas should not be used until volatile residues have dissipated. Wash hands and warm water before eating or smoking. Wash with hot water before reuse.

SYMPTOMS OF POISONING: A sense of tightness in chest, pupils, stomach pains, vomiting and diarrhea.

TREATMENT: In case of poisoning call a physician. If swallowed, induce vomiting in a glass of warm water. Administer milk or water until vomit fluid is clear. If on skin, remove contaminated clothing immediately with soap and warm water. If eyes are contaminated, flush with water for at least 15 minutes.

"Chemicals for Agriculture"

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

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