



**SYMPTOMS OF POISONING:** A sense of "lightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

**TREATMENT:** In case of poisoning call a physician immediately. Have patient lie down and keep quiet. 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 on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes.



**TO PHYSICIAN:**

**ANTIDOTE**—Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

**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.

SYSTOX is a Reg. TM. of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

EPA Est. 3125-MO-1 471080

# SYSTOX 2

## EMULSIFIABLE SYSTEMIC INSECTICIDE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

**GUARANTEE:** Contains 2.0 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 ..... 25%  
 Aromatic Petroleum Distillate ..... 68%

**INERT INGREDIENTS:** ..... 7%  
 100%

EPA Reg. No. 3125-4-ZA

MANUFACTURED BY

**Chemagro**

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

**DIRECTIONS FOR USE**

**IMPORTANT:** Read these entire Directions and Conditions of Sale, including the Warranty and Limitation of Damages provision, before using SYSTOX 2. **CONDITIONS OF SALE:** These Directions for Use reflect the opinion of experts based on tests of effectiveness, of toxicity to plants and laboratory animals. 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 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 the SYSTOX 2 emulsifiable systemic insecticide penetrates by absorption and is translocated in the plant. The best time to apply SYSTOX 2 is early morning bloom. By observing this practice, beneficial pollinating insects, including honey bees, will not be brought into contact with spray and so not adversely affected. **MIXING:** SYSTOX 2 forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. **DOSAGE:** Use specified dosage of SYSTOX 2 in the amount of water necessary to give complete coverage of foliage. The type of equipment used will vary. **SPRAYING:** Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied, complete coverage and thorough penetration of the plant parts may require the use of a fine spray nozzle. Consult your State Agricultural Experiment Station or Extension Service for specific use information consistent with local conditions.

**RECOMMENDED APPLICATIONS**

CROP	INSECT	REMARKS
FIELD CROPS -Barley -Oats -Wheat	Aphids -Mites	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 spray treated fields.
VIGOROUS -Beans	Aphids -Mites	Apply specified dosage per acre by air or ground equipment in sufficient water for
	Thrips	Apply specified dosage per acre by air or ground equipment in sufficient water for

CUST. CHEMAGRO DESIGN  
 ENG. 1442-4 S.O. 239-00052 SIZE 402 x 410 x 902 C.E. 956  
 READ BEFORE SIGNING: Customer agrees that (1) Continental Can Company, Inc. shall not be liable for (a) any error in the attached failure of any part of the attached to comply with any local, state or Federal law or regulation, (c) any part of the attached which infringe copyright, letters patent or otherwise and (d) production colors not being exactly the same as the hand proved colors, if any, in the attached shall indemnify and hold Continental harmless against the liability described in (1) above, including attorney fees and court costs or for changes in the attached shall not exceed the actual cost of the containers bearing the noted error. (Changes increase cost)

CHANGE AS DETAILED  APPROVED AS SUBMITTED  CUSTOMER SIGNATURE \_\_\_\_\_

**IMPORTANT:** Read these entire **CONDITIONS OF SALE;** These D However, because of the wide r beyond the control of the seller. SYSTOX 2 emulsifiable systemic bloom. By observing this practic MIXING: SYSTOX 2 forms an en of water and then agitate. For g **DOSAGE:** Use specified dosage **SPRAYING:** Work to windward. I accordance with local condition:

CROP	INSECT
FIELD CROPS Barley Oats Wheat	Aphids Mites
Cotton	Thrips Aphids Mites
Sorghum	Aphids Mites
Sugar Beets	Aphids Mites
Hops	Aphids
SEED FIELD CROPS Alfalfa Clover	Aphids Mites
FRUITS	Aphids
Apples	Mites Unspotted Tentiform leaf miner White apple leafhopper
Almonds Nectarines Peaches	Aphids Mites

DESIGN *SYSTOX 2*

2052 SIZE *402 x 610 x 907* C.E. *9562 x 20.400* B.P. DATE *7-1*

Continental Can Company, Inc. shall not be liable for (a) any error in the attached unless this proof is returned to Continental with such error plainly noted in state or Federal law or regulation, (c) any part of the attached which infringes the property rights of others acquired, without limitation thereof, by users not being exactly the same as the hand proved colors, if any, in the attached, although Continental will duplicate the colors as closely as possible to the ability described in (1) above, including attorney fees and court costs or for consequential damages; and (3) the liability of Continental for uncorrected errors on the containers bearing the noted error. • Changes increase costs and delay production. • CONTINENTAL CAN COMPANY, IN

RECEIVED  
AS  
SUBMITTED

CUSTOMER

SIGNATURE:

DATE

**SYSTOX 2 emulsifiable system**  
 bloom. By observing this practi  
**MIXING: SYSTOX 2 forms an e**  
 of water and then agitate. For  
**DOSAGE: Use specified dosag**  
**SPRAYING: Work to windward.**  
 accordance with local conditio

CROP	INSECT
<u>FIELD CROPS</u>	<u>Aphids</u>
<u>Barley</u>	<u>Mites</u>
<u>Oats</u>	<u>Thrips</u>
<u>Wheat</u>	<u>Aphids</u>
<u>Cotton</u>	<u>Mites</u>
<u>Sorghum</u>	<u>Aphids</u>
<u>Sugar Beets</u>	<u>Mites</u>
<u>Hops</u>	<u>Aphids</u>
<u>SEED FIELD CROPS</u>	<u>Aphids</u>
<u>Alfalfa</u>	<u>Mites</u>
<u>Clover</u>	<u>Mites</u>
<u>FRUITS</u>	<u>Aphids</u>
<u>Apples</u>	<u>Mites</u>
	<u>Unspotted</u>
	<u>lentiform</u>
	<u>leaf miner</u>
	<u>White apple</u>
	<u>leafhopper</u>
<u>Almonds</u>	<u>Aphids</u>
<u>Nectarines</u>	<u>Mites</u>
<u>Peaches</u>	<u>Mites</u>
<u>Pears</u>	<u>Aphids</u>
	<u>Mites</u>
	<u>Unspotted</u>
	<u>lentiform</u>
	<u>leaf miners</u>
<u>Blackberries</u>	<u>Aphids</u>
<u>Dewberries</u>	<u>Leafhoppers</u>
<u>Gooseberries</u>	<u>Mites</u>

**DESIGN**

*SYSTOX 2*

**SIZE** *402 x 610 x 907*

**C.E.** *9.562 x 20.400*

**B.P.**

**DATE** *7-19-74*

Inc. shall not be liable for (a) any error in the attached unless this proof is returned to Continental with such error plainly noted in writing, (b) the  
 v or regulation, (c) any part of the attached which infringes the property rights of others acquired, without limitation thereof, by usage, registration,  
 ty the same as the hand proved colors, if any, in the attached, although Continental will duplicate the colors as closely as possible; (2) Customer  
 (1) above, including attorney fees and court costs or for consequential damages; and (3) the liability of Continental for uncorrected errors plainly  
 ing the noted error. • Changes increase costs and delay production • CONTINENTAL CAN COMPANY, INC.

**CUSTOMER**

**SIGNATURE:**

**DATE**

## DIRECTIONS FOR USE

**IMPORTANT:** Read these entire Directions and Conditions of Sale, including the Warranty and Limitation of Damages provision, before using SYSTOX 2.

**CONDITIONS OF SALE:** These Directions for Use reflect the opinion of experts based on tests of effectiveness, of toxicity to plants and laboratory animals. 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 guarantee that the product will be effective under all conditions. Chemagro and the Seller offer, and the Buyer uses, this product subject to the understanding that the Buyer assumes all responsibility for the results obtained. SYSTOX 2 emulsifiable systemic insecticide penetrates by absorption and is translocated in the plant. The best time to apply SYSTOX 2 is early morning or late afternoon. By observing this practice, beneficial pollinating insects, including honey bees, will not be brought into contact with spray and so not adversely affected.

**MIXING:** SYSTOX 2 forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers of water and then agitate. For ground application, apply in sufficient water for good coverage. For airplane application, use the recommended per acre dosage.

**DOSAGE:** Use specified dosage of SYSTOX 2 in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the amount of water to be used.

**SPRAYING:** Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied, complete coverage and thoroughness are essential. Consult your State Agricultural Experiment Station or Extension Service for specific use information consistent with local conditions.

## RECOMMENDED APPLICATIONS

CROP	INSECT	PINTS SYSTOX 2	REMARKS
<u>FIELD CROPS</u> <u>Barley</u> <u>Oats</u> <u>Wheat</u>	<u>Aphids</u>	½ to 1	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.
	<u>Mites</u>	1	
<u>Cotton</u>	<u>Thrips</u>	1	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.
	<u>Aphids</u> <u>Mites</u>	1½	
<u>Sorghum</u>	<u>Aphids</u> <u>Mites</u>	1	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.
<u>Sugar Beets</u>	<u>Aphids</u> <u>Mites</u>	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 but not more than 3 times per season nor within 30 days of harvest.
<u>Hops</u>	<u>Aphids</u>	1	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.
<u>SEED FIELD CROPS</u> <u>Alfalfa</u> <u>Clover</u>	<u>Aphids</u> <u>Mites</u>	1 to 2	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.
<u>FRUITS</u>  <u>Apples</u>	<u>Aphids</u>	½ to 2	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-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.
	<u>Mites</u>	¼ to 2	
	<u>Unspotted tentiform leaf miner</u>	1	
	<u>White apple leafhopper</u>	½ to 1	
<u>Apricots</u> <u>Nectarines</u> <u>Peaches</u>	<u>Aphids</u> <u>Mites</u>	1	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.

CROP	INSECT
<u>VEGETABLES</u> <u>Beans</u>	<u>Aphids</u> <u>Mites</u>
<u>Broccoli</u> <u>Brussels Sprouts</u> <u>Cabbage</u> <u>Cauliflower</u>	<u>Aphids</u>
<u>Celery</u>	<u>Aphids</u> <u>Mites</u>
<u>Lettuce</u>	<u>Aphids</u>
<u>Peas</u>	<u>Aphids</u>
<u>Eggplant</u>	<u>Aphids</u>
<u>Peppers</u>	<u>Aphids</u>
<u>Potatoes</u>	<u>Aphids</u> <u>Leafhoppers</u>
<u>Tomatoes</u>	<u>Aphids</u> <u>Mites</u>

39-00052  
 SIZE 402 x 610 x 902  
 C.F. 9562 x 20400  
 B.P.  
 DATE 7-13

DESIGN SYSTOX 2

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## FOR USE

es provision, before using SYSTOX 2 emulsifiable systemic insecticide.

toxicity to plants and laboratory animals and of residues on or in food and feed under normal conditions of use. If directions are followed, it is impossible to eliminate all risks associated with its use because of abnormal conditions. Understanding that the Buyer assumes all such risks.

Best time to apply SYSTOX 2 is early morning or evening, especially when crops such as alfalfa and cotton are in contact with spray and so not adversely affected.

Use ground sprayers and aircraft sprayers. To mix with water, pour the required amount of SYSTOX 2 into full amount of water. Use the recommended per acre rate in at least 1 gallon of water.

Concentration. The type of equipment used will determine the concentration required.

For best results, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with specific use information consistent with label directions and cautions.

## APPLICATIONS

CROP	INSECT	PINTS SYSTOX 2	REMARKS
<u>VEGETABLES</u> <u>Beans</u>	<u>Aphids</u> <u>Mites</u>	1½ to 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 21 days of harvest.
<u>Broccoli</u> <u>Brussels Sprouts</u> <u>Cabbage</u> <u>Cauliflower</u>	<u>Aphids</u>	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 21 days of harvest. First application may be made at specified dosage per 100 gallons of transplant water.
<u>Celery</u>	<u>Aphids</u> <u>Mites</u>	1	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 pint rate nor more than 100 gallons per acre at the 2-pint rate. Do not apply within 21 days of harvest for lettuce and peas nor within 28 days of harvest for celery.
<u>Lettuce</u>	<u>Aphids</u>	1 to 2	
<u>Peas</u>	<u>Aphids</u>	1	
<u>Eggplant</u>	<u>Aphids</u>	1 to 1½	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.
<u>Peppers</u>	<u>Aphids</u>	1½	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.
<u>Potatoes</u>	<u>Aphids</u> <u>Leafhoppers</u>	¾ to 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 21 days of harvest.
<u>Tomatoes</u>	<u>Aphids</u> <u>Mites</u>	1 to 1½	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 pint rate nor more than 100 gallons per acre at the 1½ pint rate. Do not apply within 3 days of harvest.



DATE 7-19-74

PROOF DATE 8-7-74

NO. PROOFS 12

SEED FIELD CROPS			
<u>Alfalfa</u> <u>Clover</u>	<u>Aphids</u> <u>Mites</u>	1 to 2	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.
<u>FRUITS</u>  <u>Apples</u>	<u>Aphids</u>	½ to 2	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 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.
	<u>Mites</u>	¼ to 2	
	<u>Unspotted tentiform leaf miner</u>	1	
	<u>White apple leafhopper</u>	½ to 1	
<u>Apricots</u> <u>Nectarines</u> <u>Peaches</u>	<u>Aphids</u> <u>Mites</u>	1	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.
<u>Pears</u>	<u>Aphids</u> <u>Mites</u>	¾	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.
	<u>Unspotted tentiform leaf miners</u>	1	
<u>Blackberries</u> <u>Dewberries</u> <u>Gooseberries</u> <u>Loganberries</u> <u>Raspberries</u>	<u>Aphids</u> <u>Leafhoppers</u> <u>Mites</u>	1 to 2	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-pint rate nor more than 300 gallons per acre at the 2-pint rate.
<u>Grapefruit</u> <u>Lemons</u> <u>Oranges</u>	<u>Aphids</u> <u>Citrus red mite</u>	1	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.
<u>Grapes</u>	<u>Leafhoppers</u> <u>Mites</u>	1½	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.
<u>Strawberries</u>	<u>Aphids</u> <u>Mites (except cyclamen mite)</u>	1½	
<u>Plums</u> <u>Prunes</u> (Fresh)	<u>Aphids</u> <u>Mites</u>	1 to 1½	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.
<u>NON BEARING FRUITS</u> <u>Stone Fruits</u>	<u>Aphids</u> <u>Mites</u>	1 to 2	Apply specified dosage in 100 gallons of water as a full coverage spray* on non-bearing stone fruits. Repeat as necessary.
<u>Pineapple</u>	<u>Mites</u>	(See Remarks)	For temporary protection of pineapple planting stock, dip stock in emulsion containing 2 pints of SYSTOX 2 per 100 gallons of water. Do not handle treated stock with bare hands.
<u>NUTS</u> <u>Almonds</u> <u>Walnuts</u>	<u>Aphids</u> <u>Mites</u>	3	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.
<u>Filberts</u>	<u>Aphids</u>	1	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 per acre on pecans. Repeat as necessary. Do not apply within 40 days of harvest for filberts nor 21 days of harvest for pecans.
<u>Pecans</u>	<u>Aphids</u> <u>Mites</u>	1	

<u>Eggplant</u>	<u>Aphids</u>	1 to 1½
<u>Peppers</u>	<u>Aphids</u>	1½
<u>Potatoes</u>	<u>Aphids</u> <u>Leafhoppers</u>	¾ to 1
<u>Tomatoes</u>	<u>Aphids</u> <u>Mites</u>	1 to 1½
<u>MELONS</u> <u>Muskmelons</u>	<u>Aphids</u> <u>Beet leafhopper</u> <u>Mites</u>	1½

ORNAMENTALS: FOR USE BY COMMERCIAL APPLICATORS

<u>Flowers, Shrubs, &amp; Trees</u>	<u>Aphids</u> <u>Mealybugs</u> <u>Mites</u> <u>Whiteflies</u>	½ to ¾
	<u>Birch leaf miner</u> <u>Boxwood leaf miner</u> <u>Holly leaf miner</u> <u>Lace bugs</u>	¾ to 1
	<u>Camellia scale</u> <u>Rhododendron scale</u> <u>Soft brown scale</u> <u>Tea scale</u>	1
<u>Chrysanthemums</u> <u>Daffodils</u> <u>Lilies</u> <u>Primroses</u>	<u>Foliar nematodes (Ditylenchus sp.)</u> <u>(Aphelenchoides sp.)</u>	1 to 2

\*This concentration is calculated for conventional concentrate sprayers, increase the concentration of dilute spray equivalent to a full coverage spray. Where conditions require, spray in not less than one gallon of water per acre.

RESTRICTIONS

<u>Eggplant</u>	<u>Aphids</u>	1 to 1½	complete coverage but not less than 1 gallon per acre. Do not apply more than twice per season nor within 7 days of harvest.
<u>Peppers</u>	<u>Aphids</u>	1½	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.
<u>Potatoes</u>	<u>Aphids</u> <u>Leafhoppers</u>	¾ to 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 21 days of harvest.
<u>Tomatoes</u>	<u>Aphids</u> <u>Mites</u>	1 to 1½	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 pint rate nor more than 100 gallons per acre at the 1½ pint rate. Do not apply within 3 days of harvest.
<u>MELONS</u> <u>Muskmelons</u>	<u>Aphids</u> <u>Beet leafhopper</u> <u>Mites</u>	1½	Apply specified dosage per acre in sufficient water for complete coverage. 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**

<u>Flowers</u> <u>Shrubs &amp;</u> <u>Trees</u>	<u>Aphids</u> <u>Mealybugs</u> <u>Mites</u> <u>Whiteflies</u>	½ to ¾	<p>FOLIAR SPRAY: Mix specified dosage in 50 gallons of water and spray plants until they are thoroughly wet.</p> <p>SOIL DRENCH: Mix specified dosage in 50 gallons of water to form an emulsion (1 pint SYSTOX 2 per 50 gallons is equivalent to 2 teaspoonfuls 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 ¼ 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.</p>
	<u>Birch leaf miner</u> <u>Boxwood leaf miner</u> <u>Holly leaf miner</u> <u>Lace bugs</u>	¾ to 1	
	<u>Camellia scale</u> <u>Rhododendron scale</u> <u>Soft brown scale</u> <u>Tea scale</u>	1	
<u>Chrysanthemums</u> <u>Daffodils</u> <u>Lilies</u> <u>Primroses</u>	<u>Foliar nematodes</u> <u>(Ditylenchus sp.)</u> <u>(Aphelenchoides sp.)</u>	1 to 2	<p>Mix specified dosage in 50 gallons of water and spray plants until they are thoroughly wet (1 pint SYSTOX 2 per 50 gallons is equivalent to 2 teaspoonfuls per gallon of water). For use as a soil drench, prepare an 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 ¼ 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-pint rate. Do not apply within 5 days of handpicking, pruning, transplanting, or other handling. Caution. Phytotoxicity has occurred on Croft lilies. Caution should be exercised when treating these plants.</p>

\*This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of SYSTOX 2 in the spray mixture in order to apply amount of active ingredient per acre equivalent to a full coverage spray. Where conditions dictate an air application, apply dosage per acre equivalent to a full coverage ground spray in not less than one gallon of water per acre.