

2023-6001  
2025-03-18

GROUP	27	HERBICIDE
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## MST 4 SC Herbicide

A herbicide for use in MON 94313 soybean, mesotrione tolerant soybean, field-, seed-, and sweet-corn, cranberry, asparagus (established), blueberry, rhubarb, sorghum and turf for control of annual broadleaf weeds.

### COMMERCIAL (AGRICULTURAL) SUSPENSION

ACTIVE INGREDIENT: Mesotrione 480.0 g/L

Contains 1,2-benzisothiazolin-3-one at 0.01% as a preservative. OR  
Contains 1,2-benzisothiazolin-3-one at 0.002 % as a preservative.

REGISTRATION NO. 35442 PEST CONTROL PRODUCTS ACT

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

NET CONTENTS: 0.947 L –Bulk

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. SE  
Calgary, AB T2C 3G3

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies,  
call: 1-800-334-7577 (24 hours a day)

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

## FIRST AID

**In case of poisoning**, contact a physician or a poison control centre immediately. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing**, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes**, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## TOXICOLOGICAL INFORMATION

Treat symptomatically if ingested or in contact with eyes or skin. If gastric lavage is considered necessary, prevent aspiration of gastric material. Administration of activated charcoal may also be considered.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Potential skin sensitizer.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), socks and shoes during mixing, loading, application, clean-up and repair. Gloves and protective eyewear are not required during application within a closed cab.

Wash the outside of the gloves before removing.

Wash splashes from skin and eyes immediately with plenty of water.

Avoid working in spray mist. Avoid all drift or contact with other vegetation. After spraying, wash hands and shower thoroughly with soap and water. While using product, do not eat, drink or smoke. Wash hands and exposed skin with soap and water thoroughly before eating, drinking, smoking, applying cosmetics or using the toilet. Keep product away from food, drink and animal feed. Store product in original container, tightly closed and in a safe place.

**DO NOT** use or store product near heat or open flame.

**DO NOT** apply beyond the field boundary.

**DO NOT** apply by air

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours after application.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

### **STORAGE**

Always store product in original container with top closed in a cool, dry place. Store this product away from food or feed. MST 4 SC Herbicide can be stored in freezing conditions. If frozen, allow to thaw and agitate thoroughly prior to use.

### **DISPOSAL**

#### **Recyclable containers**

Disposal of container: **DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

#### **Refillable containers (containers that can be refilled for the user by the distributor/dealer)**

Disposal of container: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. **DO NOT** reuse this container for any other purpose.

Bulk container refilling:

1. The container is to be refilled by the distributor/dealer only with MST 4 SC Herbicide. **DO NOT** reuse this container for any other purpose.

2. Reseal and return to an authorized Bulk Site.
3. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.
4. Check for leaks after refilling and before transportation.
5. DO NOT refill or transport damaged or leaking containers.
6. If the container is not being refilled, return to the point of purchase (distributor/dealer) for disposal.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

Booklet

GROUP 27 HERBICIDE

# MST 4 SC Herbicide

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**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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## TOXICOLOGICAL INFORMATION

Treat symptomatically if ingested or in contact with eyes or skin. If gastric lavage is considered necessary, prevent aspiration of gastric material. Administration of activated charcoal may also be considered.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Potential skin sensitizer.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), socks and shoes during mixing, loading, application, clean-up, and repair. Gloves and protective eyewear are not required during application within a closed cab.

Wash the outside of the gloves before removing.

Wash splashes from skin and eyes immediately with plenty of water.

Avoid working in spray mist. Avoid all drift or contact with other vegetation. After spraying, wash hands and shower thoroughly with soap and water. While using product, do not eat, drink, or smoke. Wash hands and exposed skin with soap and water thoroughly before eating, drinking, smoking, applying cosmetics or using the toilet. Keep product away from food, drink, and animal feed. Store product in original container, tightly closed and in a safe place.

**DO NOT** use or store product near heat or open flame.

**DO NOT** apply beyond the field boundary.

**DO NOT** apply by air.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours after application.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

## **STORAGE**

Always store product in original container with top closed in a cool, dry place. Store this product away from food or feed. MST 4 SC Herbicide can be stored in freezing conditions. If frozen, allow to thaw and agitate thoroughly prior to use.

## **DISPOSAL**

### **Recyclable containers**

Disposal of container: **DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

### **Refillable containers (containers that can be refilled for the user by the distributor/dealer)**

Disposal of container: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. **DO NOT** reuse this container for any other purpose.

Bulk container refilling:

1. The container is to be refilled by the distributor/dealer only with MST 4 SC Herbicide. DO NOT reuse this container for any other purpose.
2. Reseal and return to an authorized Bulk Site.
3. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.
4. Check for leaks after refilling and before transportation.
5. DO NOT refill or transport damaged or leaking containers.
6. If the container is not being refilled, return to the point of purchase (distributor/dealer) for disposal.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

## GENERAL INFORMATION

MST 4 SC Herbicide is a suspension concentrate herbicide that has soil residual activity and provides selective control or suppression of annual broadleaf weeds in listed crops. MST 4 SC Herbicide has a high level of crop safety to allow for flexibility in application timing and tank mixes with a range of herbicides as part of a one pass broad-spectrum weed control program.

## ENVIRONMENTAL PRECAUTIONS

Toxic to small wild mammals, aquatic organisms and to non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

**DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## DIRECTIONS FOR USE

### MON 94313 SOYBEAN (Eastern Canada Only)

MST 4 SC Herbicide can be applied surface pre-plant, pre-emergent or post-emergent (up to first flower [R1 growth stage] to MON 94313 soybean. Applications to soybean varieties that are not designated as MON 94313 will result in significant crop injury including yield

loss or soybean death. For a list of MON 94313 soybean varieties, contact a Bayer CropScience technical representative.

MST 4 SC Herbicide can be applied from 7 days prior to planting up through and including the R1 growth stage for control of weeds in soybeans. Under some environmental conditions, post-emergence applications of MST 4 SC Herbicide can result in temporary crop whitening. When these symptoms occur following application, new soybean growth is unaffected, and plants fully recover.

Harvest MON 94313 soybean seed at normal maturity, DO NOT graze or harvest treated forage or hay for livestock feed.

### Restrictions

1. Apply no more than 0.30 L/ha MST 4 SC Herbicide per MON 94313 soybean crop per year.
2. Do not apply MST 4 SC Herbicide to more than 140 ha of MON 94313 soybean per day.
3. Do not apply MST 4 SC Herbicide after early flowering (R1 growth stage) of MON 94313 soybean.
4. Do not harvest MON 94313 soybean for at least 45 days following application.

### Surface Pre-plant or Pre-emergent Application:

Apply MST 4 SC Herbicide prior to planting, or after planting, prior to emergence of MON 94313 soybean at 0.30 L per hectare in a spray volume of 100-200 L of water and a minimum pressure of 206 kPa (refer to the “MIXING AND SPRAYING INSTRUCTIONS” section of this label). MST 4 SC Herbicide will control the weeds listed in the table below (pre-emergence and up to the 2-leaf stage).

### Use Rates for Pre-emergent Application to MON 94313 soybean

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE
Redroot pigweed, velvetleaf, common ragweed (suppression only), lambs-quarters and wild mustard	0.30 L

### Early Post-emergent Application - MON 94313 soybean emerged up to the second trifoliolate leaf (V2 growth stage) and up to the 2-8-leaf stage of broadleaf weeds:

Apply MST 4 SC Herbicide at 0.30 L per hectare in a spray volume of 100-200 L of water and a minimum pressure of 206 kPa (refer to the “MIXING AND SPRAYING INSTRUCTIONS” section of this label).

For best results, apply MST 4 SC Herbicide to actively growing weeds. Weeds that emerge after an application of MST 4 SC Herbicide will be controlled after they absorb the herbicide from the soil provided there is sufficient moisture for uptake.

If weeds are beyond the 2-leaf stage, then add a spray surfactant. Use a non-ionic surfactant (e.g., AGRAL<sup>®</sup> 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.20% v/v.

MST 4 SC Herbicide will control the weeds in the table below up to the 8-leaf stage.

**Use Rates for Early Post-emergent Application (MON 94313 soybean emerged up to the second trifoliolate leaf (V2 growth stage) and up to the 2-8-leaf stage of broadleaf weeds)**

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE
Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed (suppression only), lamb's quarters <sup>1</sup> and wild mustard <sup>1</sup>	0.21 - 0.30 <sup>1</sup> L

<sup>1</sup> Use the 0.30 L/ha rate to control lamb's quarters and wild mustard.

**Late Post-emergent Application - MON 94313 soybean from the third trifoliolate leaf (V3 growth stage) up to first flower (R1 growth stage) and emerged broadleaf weeds up to the 8-leaf stage:**

Apply MST 4 SC Herbicide at 0.21 L per hectare in a spray volume of 100-200 L of water and a minimum pressure of 206 kPa (refer to the "*MIXING AND SPRAYING INSTRUCTIONS*" section of this label).

Always add a spray surfactant. Use a non-ionic surfactant (e.g., AGRAL® 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.20% v/v.

For best results, apply MST 4 SC Herbicide to actively growing weeds. Weeds that emerge after an application of MST 4 SC Herbicide will be controlled after they absorb the herbicide from the soil provided there is sufficient moisture for uptake.

MST 4 SC Herbicide will control the weeds listed in the table below up to the 8-leaf stage:

**Use Rates for Late Post-emergent Application (MON 94313 soybean from the third trifoliolate leaf (V3 growth stage) up to first flower (R1 growth stage) and emerged broadleaf weeds up to the 8-leaf stage)**

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE
Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed (suppression only)	0.21 L

**MESOTRIONE TOLERANT SOYBEAN (Eastern Canada Only)**

MST 4 SC Herbicide can be applied surface pre-plant (up to 7 days prior to planting) or post-plant, pre-emergence to soybean varieties that are identified as mesotrione tolerant. Applications to soybean varieties that are not mesotrione tolerant will result in significant crop injury. Applications to mesotrione tolerant soybean may result in significant early visual crop injury/bleaching with no adverse effects on maturity or crop yield. For a list of mesotrione tolerant soybean varieties, contact a Bayer CropScience technical representative. Harvest mesotrione tolerant soybean seed at normal maturity, DO NOT graze or harvest treated forage or hay for livestock feed.

### Surface Pre-plant (Up to 7 Days Prior to Planting) or Post-plant Pre-emergent Application

Apply MST 4 SC Herbicide prior to mesotrione tolerant soybean emergence at 0.30 L per hectare in a spray volume of 200 L and a minimum pressure of 206 kPa (refer to the “MIXING AND SPRAYING INSTRUCTIONS” section of this label).

MST 4 SC Herbicide will control the weeds below (pre-emergence and up to the 2-leaf stage):

lamb’s quarters  
wild mustard  
redroot pigweed  
common ragweed (suppression)  
velvetleaf

If other annual or perennial weeds are emerged at application, MST 4 SC Herbicide may be tank mixed with other registered soybean herbicides listed in the table below.

#### Restrictions

1. Apply no more than 0.30 L/ha MST 4 SC Herbicide per year. One application per year.
2. Do not apply MST 4 SC Herbicide to emerged mesotrione tolerant soybean.
3. Do not apply MST 4 SC Herbicide to more than 140 ha of mesotrione tolerant soybean per day.

#### Use Rates for Tank Mixtures for Surface Pre-plant Application Up to 7 Days Prior to Planting Mesotrione Tolerant Soybean

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE	RATE/HA TANK MIX PARTNER <sup>1</sup>
Broadleaf Weeds	0.30 L	1.15 - 1.75 L DUAL MAGNUM Herbicide
Broadleaf Weeds and Annual Grasses	0.30 L	1.15 - 1.75 L DUAL II MAGNUM Herbicide
Broadleaf Weeds plus emerged Annual and Perennial Weeds	0.30 L	1.8 L TOUCHDOWN TOTAL Herbicide <sup>2</sup> or for other glyphosate products, consult the label to deliver the equivalent of 850- 900 g a.e./ha
Broadleaf Weeds and Annual Grasses, plus emerged Annual and Perennial Weeds	0.30 L	+ 1.8 L TOUCHDOWN TOTAL Herbicide <sup>2</sup> + 1.15 – 1.75 L DUAL II MAGNUM Herbicide

<sup>1</sup> Consult the label of the product(s) tank mixed with MST 4 SC Herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Some perennial weeds may not be controlled with this rate of TOUCHDOWN TOTAL or other glyphosate herbicides. Consult the TOUCHDOWN TOTAL or other glyphosate herbicide labels regarding perennial weeds controlled.

### Use Rates for a Tank Mix with DUAL II MAGNUM Herbicide for Post-plant Pre-emergent Application to Mesotrione Tolerant Soybean

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE	RATE/HA TANK MIX PARTNER <sup>1</sup>
Broadleaf Weeds and Annual Grasses	0.30 L	+ 1.15 - 1.75 L DUAL II MAGNUM Herbicide

<sup>1</sup> Consult the label of the product(s) tank mixed with MST 4 SC Herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

## CORN

### Pre-emergent Application: (Field Corn, Production Seed Corn and Sweet Corn) – Eastern Canada Only:

Apply MST 4 SC Herbicide at 0.30 L per hectare in a spray volume of 200 L and a minimum pressure of 206 kPa (refer to the “*MIXING AND SPRAYING INSTRUCTIONS*” section of this label).

MST 4 SC Herbicide will control:

lamb’s quarters  
wild mustard  
redroot pigweed  
common ragweed (suppression)  
velvetleaf

MST 4 SC Herbicide tank mixed with DUAL II MAGNUM® Herbicide, PRIMEXTRA® II MAGNUM Herbicide, DUAL II MAGNUM Herbicide plus AATREX® LIQUID 480 Herbicide will provide broad-spectrum control of annual broadleaf and grass weeds. Consult the tank mix partner label for precautions, use rates and weeds controlled.

### Use Rates for Tank Mixtures for Pre-emergent Application

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE	RATE/HATANK MIX PARTNER <sup>1</sup>
Broadleaf Weeds and Annual Grasses	0.30 L	1.25 – 1.75 L DUAL II MAGNUM Herbicide
		3.0 – 4.0 L PRIMEXTRA II MAGNUM Herbicide
		1.25 – 1.75 L DUAL II MAGNUM Herbicide + 2.1 - 3.1 L AATREX Liquid 480 Herbicide

<sup>1</sup> Consult the label of the product(s) tank mixed with MST 4 SC Herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

### Early Post-emergent Application: (Field Corn only) - Eastern Canada only:

Apply MST 4 SC Herbicide at 0.30 L per hectare in a spray volume of 200 L and a minimum pressure of 206 kPa (refer to the “*MIXING AND SPRAYING INSTRUCTIONS*” section of this label).

MST 4 SC Herbicide will control:

lamb’s quarters

wild mustard  
 redroot pigweed common  
 ragweed (suppression)  
 velvetleaf

MST 4 SC Herbicide tank mixed with DUAL II MAGNUM Herbicide, PRIMEXTRA II MAGNUM Herbicide, DUAL II MAGNUM Herbicide plus AATREX Liquid 480 Herbicide will provide broad-spectrum control of annual broadleaf and grass weeds. Consult the tank mix partner labels for precautions, use rates and weeds controlled.

**Use Rates for Tank Mixtures for Early Post-emergence Application (Spike to 2-leaf stage of corn and cotyledon to 2-leaf stage of weeds)**

WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE	RATE/HA TANK MIX PARTNER <sup>1</sup>
Broadleaf Weeds and Annual Grasses	0.30 L	1.25 – 1.75 L DUAL II MAGNUM Herbicide
		3.0 – 4.0 L PRIMEXTRA II MAGNUM Herbicide
		1.25 – 1.75 L DUAL II MAGNUM Herbicide + 2.1 - 3.1 L AATREX Liquid 480 Herbicide

<sup>1</sup> Consult the label of the product(s) tank mixed with MST 4 SC Herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

**Late Post-emergent Application: (Field Corn only) - Eastern Canada only:**

Apply MST 4 SC Herbicide at 0.21 L per hectare in a spray volume of 100-200 L of water and a minimum pressure of 206 kPa (refer to the “*MIXING AND SPRAYING INSTRUCTIONS*” section of this label).

Always add a spray surfactant. Use a non-ionic surfactant (e.g., AGRAL<sup>®</sup> 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.20% v/v.

For best results, apply MST 4 SC Herbicide to actively growing weeds. Weeds that emerge after an application of MST 4 SC Herbicide will be controlled after they absorb the herbicide from the soil provided there is sufficient moisture for uptake. MST 4 SC Herbicide will control the following weeds up to the 8-leaf stage:

Eastern black nightshade  
 redroot pigweed  
 velvetleaf  
 common ragweed (suppression only)

MST 4 SC Herbicide tank mixed with AATREX Liquid 480 Herbicide will provide control of all four weeds listed above.

MST 4 SC Herbicide tank mixed with AATREX Liquid 480 Herbicide and a glyphosate containing product will provide control of all four weeds listed above plus emerged annual and perennial weeds for use ONLY on glyphosate tolerant corn. MST 4 SC Herbicide tank mixed with Ultim<sup>®</sup> Herbicide or Accent<sup>™</sup> Herbicide or Accent Herbicide + AATREX

Liquid 480 Herbicide or Ultim Herbicide + AATREX Liquid 480 Herbicide will provide broad-spectrum control of annual broadleaf and grass weeds. Consult tank mix partner labels for precautions. Consult Ultim Herbicide and Accent Herbicide labels for use rates and weeds controlled.

**Use Rates for Tank Mixtures for Post-emergent Application (3 to 8-leaf stage of corn and up to 8-leaf stage of broadleaf weeds)**

<b>WEEDS CONTROLLED</b>	<b>RATE/HA MST 4 SC HERBICIDE<sup>1</sup></b>	<b>RATE/HA TANK MIX PARTNER<sup>2</sup></b>
Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed	0.21 L	0.58 L AATREX Liquid 480 Herbicide
Weeds controlled by MST 4 SC Herbicide plus weeds controlled by Ultim Herbicide	0.21 L	33.7 g Ultim Herbicide <sup>3</sup>
Weeds controlled by tank mixture of MST 4 SC Herbicide + AATREX Liquid 480 Herbicide plus weeds controlled by Ultim Herbicide	0.21 L	0.58 L AATREX Liquid 480 Herbicide + 33.7 g Ultim Herbicide <sup>3</sup>
Weeds controlled by MST 4 SC Herbicide plus weeds controlled by Accent Herbicide	0.21 L	33.4 g Accent Herbicide
Weeds controlled by tank mixture of MST 4 SC Herbicide + AATREX Liquid 480 Herbicide plus weeds controlled by Accent Herbicide	0.21 L	0.58 L AATREX Liquid 480 Herbicide + 33.4 g Accent Herbicide
Weeds controlled by MST 4 SC Herbicide plus emerged annual and perennial weeds <b>For use ONLY on glyphosate tolerant corn</b>	0.21 L	1.67 L glyphosate (of a 540 g a.e./L formulation) <sup>4</sup>
Weeds controlled by tank mixture of MST 4 SC Herbicide + AATREX Liquid 480 Herbicide plus emerged annual and perennial weeds <b>For use ONLY on glyphosate tolerant corn</b>	0.21 L	0.58 L AATREX Liquid 480 Herbicide + 1.67 L glyphosate (of a 540 g a.e./L formulation) <sup>4</sup>

<sup>1</sup>Add a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.

<sup>2</sup>Consult the label of the product(s) tank mixed with MST 4 SC Herbicide for specific instructions regarding soil-type variations, and rotational crop, grazing or other restrictions.

<sup>3</sup>Tank mixes containing Ultim Herbicide can only be applied up to the 6-leaf stage of corn.

<sup>4</sup>Some perennial weeds may not be controlled with this rate of glyphosate. Consult the glyphosate product label regarding perennial weeds controlled. For glyphosate formulations that are not 540 g a.e./L, refer to the product label to determine the appropriate rate for the target weeds.

**Pre-Harvest Interval**

<b>Crops</b>	<b>PHI (days)</b>
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Field corn grain/stover	100
Field corn forage	45
Sweet corn	50
Soybean	45

### USE PRECAUTIONS:

- MST 4 SC Herbicide may be used pre-plant, pre-emergent or post-emergent to the crops listed above in accordance with their respective use directions. Not all varieties of the listed crops have been tested; the use of MST 4 SC Herbicide must be approved by the seed company and comply with the directions given by the seed company for listed crops.
- Although MST 4 SC Herbicide has a flexible recropping profile, certain crops may be sensitive to low concentrations in the soil. Therefore, careful consideration should be given to crop rotation plans prior to using MST 4 SC Herbicide (refer to "*RECROPPING GUIDELINES*").
- Dry conditions following application may reduce the pre-emergent activity of MST 4 SC Herbicide. If an activating rain (12 mm) is not received within 7-10 days after a pre-emergent application, rotary hoeing is suggested to activate the herbicide.
- Do not apply to soils that contain less than 1% or more than 10% organic matter.
- When applied post-emergent, thorough coverage of emerged weeds is essential for effective control with MST 4 SC Herbicide. Although weed competition is quickly halted, visual symptoms of dying weeds (discolouration) may take up to 2 weeks to appear depending on the weed species and growing conditions.
- Optimum control of emerged weeds will be obtained when weeds are actively growing. Under unfavourable conditions, such as drought, heat, flooding, prolonged cool temperatures or insufficient fertility, adequate control may not be achieved, and re-growth may occur.
- Temporary crop injury (bleaching) may occur under extreme weather conditions or when the crop is under stress due to inadequate or abnormally high moisture levels or extreme temperatures. The symptoms are most visible where excessive rates have been applied, such as sprayer overlaps. Listed crops quickly outgrow these effects and continue to grow normally.
- Do not make a foliar post-emergent application of any organophosphate or carbamate insecticide within 7 days before or 7 days after a MST 4 SC Herbicide application or severe injury may occur to the listed crops. Bayer CropScience will not be held responsible for losses or damage resulting from such use.
- MST 4 SC Herbicide may be applied prior to or following a pyrethroid-type insecticide, such as FORCE® EVO Insecticide or MATADOR® 120EC Insecticide.
- Do not cultivate corn within 7 days before or after a post-emergent MST 4 SC Herbicide application.
- Make only one application of MST 4 SC Herbicide per year.

## MIXING AND SPRAYING INSTRUCTIONS

Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

## SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer zone (meters) required for the protection of:	
		Aquatic habitat	Terrestrial habitat
Field sprayer	MON 94313 soybean, mesotrione tolerant soybean, field corn, seed corn, sweet corn, asparagus (established), rhubarb, sorghum, highbush and lowbush blueberry, and turf	1	4
	Cranberry	1	10

This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca) for information before applying any tank mix that is not specifically recommended on this label.

Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Do not apply any tank mixes with products containing glufosinate.

### **APPLICATION IN LIQUID FERTILIZERS**

Nitrogen solutions (such as 28-0-0 UAN), excluding suspension fertilizers, may replace water as a carrier for pre-emergence application in corn. Do not use nitrogen solutions as a carrier to corn that has emerged. Constant agitation is necessary to maintain a uniform mixture during application.

### **GROUND APPLICATION ONLY**

**Water Volume:** Apply in 100 – 200 litres per hectare.

**Spray Pressure:** 206 – 300 kPa

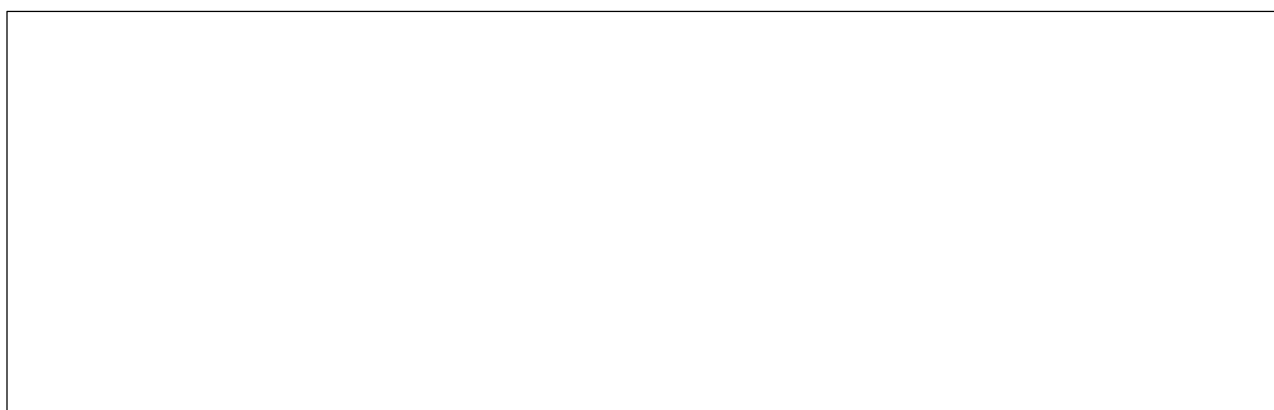
**Spray Nozzles:** Flat Fan with 50 mesh or larger screens. For uniform coverage and increased penetration of the crop canopy, set the nozzles at a downward angle of 90 degrees (90°).

**Surfactant:** Post-emergent applications of MST 4 SC Herbicide must be applied with a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v (2.0 L for each 1000 L of spray mixture).

#### **Mixing Procedure:**

1. Ensure that the sprayer is totally clean.
2. Fill the sprayer half full with water. Engage gentle agitation.
3. Ensure that the agitation system is working properly and that it creates a rippling or rolling action on the water surface.
4. If required, add Ultim Herbicide or Accent Herbicide slowly and agitate until completely dispersed.
5. Add MST 4 SC Herbicide and PRIMEXTRA II MAGNUM Herbicide or AATREX Liquid 480 herbicide (if an applicable tank mix) slowly and agitate until completely dispersed. To ensure complete dispersion, wait 2 or 3 minutes after the last of the herbicide has been added to the tank.
6. Fill the tank to three quarters full with water.
7. Add DUAL II MAGNUM Herbicide if required.
8. Add the non-ionic surfactant if applicable (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.
9. Add glyphosate-containing product if required Refer to the label of the tank mix partner and the surfactant for the specific mixing instructions.
10. Continue agitation while completing the filling of the sprayer with water.

11. Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time.
12. If agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying. **MST 4 SC Herbicide must be sprayed the same day as mixing.**
13. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.



The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**FIELD CORN (EASTERN CANADA ONLY)**

TIMING	WEEDS CONTROLLED	RATE/HA MST 4 SC HERBICIDE	RATE <sup>2</sup> /HA TANK MIX PARTNER	REMARKS
Pre-emergent	tall waterhemp	0.30 L	3 – 4 L PRIMEXTRA II MAGNUM Herbicide <sup>3</sup> in 200 L water/ha	Make only one application per year.
Post-emergent <sup>1,4</sup>	volunteer adzuki bean ( <i>Vigna angularis</i> ), large crabgrass ( <i>Digitaria sanguinalis</i> ), giant ragweed <sup>5</sup> and tall waterhemp, common	0.21 L	0.58 L AATREX Liquid 480 Herbicide + a non-ionic surfactant (e.g., Agral 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v in 100 - 200 L water/ha	Make only one application per year.

	cocklebur <sup>5</sup>		
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- <sup>1</sup> Apply at the 3- to 8-leaf stage of corn.  
<sup>2</sup> Consult tank mix partner label for precautions.  
<sup>3</sup> Use higher rate of PRIMEXTRA II MAGNUM Herbicide for heavier weed problems.  
<sup>4</sup> Apply at the unifoliate to trifoliate leaf stage of adzuki bean, at the 1-6-leaf stage of large crabgrass, when giant ragweed is at the cotyledon-10 leaf stage and up to the 8-leaf stage of tall waterhemp and when common cocklebur is up to the cotyledon – 6-leaf stage.  
<sup>5</sup> Suppression only.

**SEED AND SWEET CORN (EASTERN CANADA AND BRITISH COLUMBIA ONLY)<sup>1</sup>**

<b>TIMING</b>	<b>RATE/HA MST 4 SC HERBICIDE</b>	<b>RATE<sup>2</sup>/HA TANK MIX PARTNER</b>	<b>REMARKS</b>
Post-emergent <sup>3</sup>	0.21 L	a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v	<p>Make only one application per year. Apply in 100-200 L water/ha at 205-300 kPa.</p> <p>DO NOT harvest sweet corn treated with MST 4 SC Herbicide within 50 days of treatment. Harvest seed corn at the normal interval.</p> <p>Seed corn inbreds and sweet corn varieties may vary in their tolerance to herbicides, including MST 4 SC Herbicide. Since not all seed corn inbreds or sweet corn varieties have been tested for tolerance to MST 4 SC Herbicide, first use of MST 4 SC Herbicide should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.</p> <p>Additionally, consult your seed supplier for information on the tolerance of specific seed corn inbreds to MST 4 SC Herbicide.</p> <p>DO NOT apply on Delmonte 2038 as unacceptable crop injury</p>

			will occur.
<p><sup>1</sup> Refer to field corn sections of the label for a list of controlled and suppressed weeds following post-emergence application of 0.21 L/ha.</p> <p><sup>2</sup> Consult tank mix partner label for precautions.</p> <p><sup>3</sup> Late post-emergence (3- to 6-leaf stage).</p>			
<b>ESTABLISHED CRANBERRY BEDS</b>			
<b>TIMING</b>	<b>RATE/HA MST 4 SC HERBICIDE</b>	<b>WEEDS CONTROLLED</b>	<b>REMARKS</b>
Pre-emergent <sup>1</sup> and early Post-emergent <sup>1</sup>	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>2</sup> , vetch <sup>2</sup> and creeping buttercup <sup>2</sup>	Make only one application per year.  Apply in 200 L water/ha for pre- emergence application and in 100 - 200 L water/ha at 206 - 300 kPa for post-emergence application.
<b>OR</b>			
Late Post- emergent <sup>3</sup>	0.21 L <sup>4</sup>	Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed <sup>2</sup> , vetch <sup>2</sup> and creeping buttercup <sup>2</sup>	DO NOT apply by hand.  Use only ground boom equipment when applying this product.
<b>OR</b>			
Post-emergent to the weeds <sup>3</sup>	2 applications of 0.21 L <sup>4</sup>	weeds controlled with a single application of 0.21 L plus cinquefoil ( <i>Potentilla</i> spp.) <sup>2</sup> , goldenrod, rushes ( <i>Juncus Canadensis</i> , <i>J. effuses</i> , <i>J. bufonlus</i> , <i>J. tenuis</i> ) <sup>2</sup> , and sedges ( <i>Carex</i> spp.) <sup>2</sup>	Do not apply MST 4 SC Herbicide through any type of irrigation equipment.  <b>Bearing Beds</b> – Apply between bud break and fruit set. Do not harvest within 60 days of treatment.  <b>Non-Bearing Beds</b> – Apply between bud break and 60 days prior to fall or winter flooding. Do not harvest within 365 days of treatment.  Do not flood within 60 days of treatment.  Do not apply directly to water or

			<p>areas where surface water is present.</p> <p>Do not spray to runoff.</p> <p>Do not apply if rainfall or sprinkler irrigation for frost protection is expected within 48 hours.</p> <p>Wait at least 18 months after the last MST 4 SC Herbicide application in cranberries before replanting cranberries.</p> <p>Maximum 2 applications per year Allow for a minimum of 14 days between applications.</p>
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<sup>1</sup> Up to the 2-leaf weed stage.

<sup>2</sup> Suppression only.

<sup>3</sup> 3- to 8-leaf weed stage.

<sup>4</sup> Add a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.

**ASPARAGUS (ESTABLISHED)**

<b>TIMING</b>	<b>RATE/HA MST 4 SC HERBICIDE</b>	<b>WEEDS CONTROLLED</b>	<b>REMARKS</b>
Pre-emergent to asparagus (established)	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed (suppression only)	<p>Can be applied by broadcast or banded application. For banded applications, the application must be made to account for band width (i.e., to deliver desired rate per hectare).</p> <p>Apply after fern mowing, disking, or other tillage operation but prior to spear emergence.</p> <p>Apply in 100 – 200 L/ha of water at 206 – 300 kPa.</p> <p>Make only 1 application per season.</p> <p>If weeds are emerged at the time of MST 4 SC Herbicide application, the addition of a non-ionic surfactant (e.g., AGRAL 90 Non-</p>

			<p>ionic Liquid Wetting &amp; Spreading Agent) at the rate of 0.2% v/v is recommended. If weeds have not emerged, no adjuvant is recommended.</p> <p>Use of MST 4 SC Herbicide on asparagus (established) may cause bleaching and may even lead to yield reduction.</p>
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### HIGHBUSH BLUEBERRY (BEARING AND NON-BEARING YEARS)

TIMING	RATE/HA MST 4 SC HERBICIDE	WEEDS CONTROLLED	REMARKS
Pre-emergent to weeds <sup>1</sup>	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>4</sup>	<p>Make only one application per year.</p> <p>Apply MST 4 SC Herbicide up to 8-leaf stage to weeds and pre-bloom to crop.</p>
<b>OR</b>			
Post-emergent to weeds <sup>2</sup>	0.30 L <sup>3</sup>	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed <sup>4</sup>	<p>Apply broadcast (directed spray to the base of the plant) ground application.</p> <p>Apply in 100-200 L/ha water at 206-300 kPa.</p>

<sup>1</sup> Up to 2-leaf weed stage.

<sup>2</sup> 3- to 8-leaf weed stage.

<sup>3</sup> Add a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.

<sup>4</sup> Suppression

### LOWBUSH BLUEBERRY (BEARING AND NON-BEARING YEARS)

TIMING	RATE/HA MST 4 SC HERBICIDE	WEEDS CONTROLLED	REMARKS
Pre-emergent to weeds <sup>1</sup>	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>4</sup>	<p>Make only one application per year.</p> <p>Apply MST 4 SC Herbicide up to 8-leaf stage to weeds.</p>
<b>OR</b>			

Post-emergent to weeds <sup>2</sup>	0.30 L <sup>3</sup>	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed <sup>4</sup>	Do not harvest crop within 60 days of application.  Apply broadcast (over the top of the blueberries) ground application.  Apply in 100-200 L/ha water at 206-300 kPa.
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<sup>1</sup> Up to 2-leaf weed stage.

<sup>2</sup> 3- to 8-leaf weed stage.

<sup>3</sup> Add a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.

<sup>4</sup> Suppression

### SOD (PRODUCTION ONLY)

TIMING	RATE/HA MST 4 SC HERBICIDE	WEEDS CONTROLLED	REMARKS
Pre-emergent to weeds <sup>1</sup>	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>4</sup>	Make only one application per year.  Apply MST 4 SC Herbicide pre-emergence to weeds in established sod OR prior to, or post-seeding and prior to emergence of weeds OR post-emergence to weeds (regardless of whether prior to, or post-seeding).
<b>OR</b>			
Post-emergent to weeds <sup>2</sup>	0.21 L <sup>3</sup>	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed <sup>4</sup>	Cool season turf species and varieties may vary in their tolerance to herbicides, including MST 4 SC Herbicide. Since not all cool-season turf varieties have been tested for tolerance to MST 4 SC Herbicide, first use of MST 4 SC Herbicide should be limited to a small area of each variety or mixture to confirm tolerance prior to adoption as a general field practice.  Additionally, consult your seed supplier for information on the tolerance of specific cool-season turf varieties to MST 4 SC

			<p>Herbicide. Do not apply MST 4 SC Herbicide to creeping bentgrass.</p> <p>Apply in 250 L/ha of water.</p> <p>Make application close to anticipated weed seed germination. Apply at grass seeding or close to seeding for best performance. Weed control is most effective on young, actively growing weeds.</p> <p>Avoid spraying on newly germinated turfgrass plants. Efficacy will be reduced under moisture stress or from applications to mature weeds.</p> <p>MST 4 SC Herbicide may reduce density of fine fescue seedings. MST4 SC Herbicide can be used on grass seed blends that contain less than 20% by weight of hard or fine fescue.</p> <p>Wait until the newly germinated turf has been mowed two times or four weeks after emergence (whichever is longer) before making a post-emergence application.</p> <p>DO NOT apply by hand.</p> <p>Use only ground boom equipment when applying this product.</p> <p>Do not apply MST 4 SC Herbicide through any type of irrigation equipment.</p> <p>Do not apply directly to water or areas where surface water is present. Do not spray to runoff.</p>
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<sup>1</sup> Up to 2-leaf weed stage.

<sup>2</sup> 3- to 8-leaf weed stage.

<sup>3</sup> Add a non-ionic surfactant (e.g., AGRAL 90 Non-ionic Liquid Wetting & Spreading Agent) at 0.2% v/v.

<sup>4</sup> Suppression**SORGHUM – EASTERN CANADA ONLY**

<b>TIMING</b>	<b>RATE/HA MST 4 SC HERBICIDE</b>	<b>WEEDS CONTROLLED</b>	<b>REMARKS</b>
Pre-plant	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>1</sup>	<p>Make only one application of MST 4 SC Herbicide per year.</p> <p>Apply in 100-200 L water/ha at 205-300 kPa.</p> <p>Do not apply to sorghum grown in course textured soils nor to sudangrass, or sorghum- sudangrass hybrids.</p> <p>Do not apply more than 0.30 L/ha per crop <b>or</b> per year.</p> <p>Apply 7-14 days before planting sorghum.</p> <p>Apply at up to the 2-leaf stage of weeds.</p> <p><b>Application to emerged sorghum can result in severe crop injury.</b></p>

<sup>1</sup> Suppression only**RHUBARB (ESTABLISHED)**

<b>TIMING</b>	<b>RATE/HA MST 4 SC HERBICIDE</b>	<b>WEEDS CONTROLLED</b>	<b>REMARKS</b>
Pre-emergent to crop, preemergent up to 2-leaf stage of weeds	0.30 L	lamb's-quarters, redroot pigweed, velvetleaf, wild mustard, common ragweed <sup>1</sup>	<p>Make only one application of MST 4 SC Herbicide per year.</p> <p>Do not harvest within 42 days of application.</p> <p>Apply in 200 L/ha water at 206- 300 kPa.</p>

		<p>CAUTION: Apply to dormant (prior to spring greenup) rhubarb. Applications of MST 4 SC Herbicide to rhubarb that is not dormant will result in crop injury. Rainfall or irrigation after the MST 4 SC Herbicide application may increase the risk of injury to emerging rhubarb. Repeated use of MST 4 SC Herbicide in low pH soils may cause injury to rhubarb plants. Wait at least 18 months after the last MST 4 SC Herbicide application in rhubarb before replanting rhubarb.</p>
<p><sup>1</sup> Suppression only</p>		

### RESISTANCE-MANAGEMENT RECOMMENDATIONS

MST 4 SC Herbicide is a Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to MST 4 SC Herbicide and other Group 27 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

#### To delay herbicide resistance:

- Where possible, rotate the use of MST 4 SC Herbicide or other Group 27 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner. Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed- competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development. (For example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible, by an alternative herbicide from a different group.

- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
  - Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
  - For further information and to report suspected resistance, contact company representatives at 1-888-283-6847.

## RECROPPING GUIDELINES

Certain crops have been shown to be sensitive to low residues of MST 4 SC Herbicide in the soil. The minimum recropping interval is the time between the last application of MST 4 SC Herbicide and the anticipated date of planting of the next crop.

To avoid injury to subsequent crops after an application at the recommended rate of MST 4 SC Herbicide, the following recropping intervals should be observed.

<b>CROP</b>	<b>MINIMAL RECROPPING INTERVAL</b>
Winter Wheat	3 months
Spring Wheat, Field Corn (grain or silage), Seed Corn, Sweet, Corn	10 months
Alfalfa, Potato, Soybean, Transplanted Tomato, White Beans	11 months
All Other Crops	Bioassay

Observe the recropping guidelines of any product(s) to be tank mixed with MST 4 SC Herbicide.

In the event of crop failure, only field corn (grain or silage), seed corn, or sweet corn can be planted as a salvage crop in the same fields in which the failed crop was treated with MST 4 SC Herbicide. An application of MST 4 SC Herbicide must NOT be made to the salvage crop.

Land treated with MST 4 SC Herbicide CAN ONLY BE PLANTED TO A CROP NOT LISTED IN THE PREVIOUS TABLE if a field bioassay can be successfully performed. The bioassay must indicate normal growth with no yield reductions.

A bioassay may be conducted in any year following the year of application to assess the tolerance of the tested crop intended for planting in the year following the bioassay. Do not conduct a bioassay in the year of application. When conducting a field bioassay, it is very important to select a representative area(s) of the field previously treated with MST 4 SC Herbicide to plant the test crop(s).

## FIELD BIOASSAY

### 1. Representative Sample:

Ensure that soil parameters such as soil texture, depth of topsoil layer, soil pH and drainage of the test area selected are representative of the remainder of the field.

### 2. Sample Size:

The seeded area of each selected bioassay crop must be large enough to ensure that reliable results are obtained. The seedbed preparations and seeding of the bioassay crop(s) should be conducted the same way as when the entire field would be planted.

### 3. Other Residual Herbicides:

It is important that other herbicide products which are known to have residual activity were not applied to the field between the last application of MST 4 SC Herbicide and the bioassay testing period. Avoid the use of other pesticides during the duration of the bioassay as they may damage the indicator crop(s).

### 4. Comparisons:

Ideally, an untreated check strip in a neighbouring field should be established and monitored for comparison since growing conditions can vary greatly from year to year and may result in erroneous results.

### 5. Assessment:

The site should be monitored regularly throughout the growing season. Watch for any damage to the crop such as thinning, yellowing or stunting. A yield sample should be taken and compared to an adjacent untreated field.

***DO NOT ROTATE TO OTHER CROPS UNTIL THE BIOASSAY INDICATES NORMAL GROWTH WITH NO YIELD REDUCTIONS.***

***Failure to follow these recropping guidelines could result in injury to seeded crop(s).*** ADHERE TO THESE PRODUCT LABELS FOR BROADLEAF WEEDS CONTROLLED, PRECAUTIONS, WARNINGS, RESTRICTIONS, TANK MIXING AND SPRAYING INSTRUCTIONS, ROTATIONAL CROPS AND DETAILED DIRECTIONS FOR USE REGARDING DOSAGE VARIATIONS ACCORDING TO SOIL TYPE.

## SPRAYER CLEANUP

To avoid subsequent injury to other crops, thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following procedures are recommended:

1. Drain and flush tank, boom and all hoses for several minutes with clean water containing a household detergent. **Do not** clean the sprayer near desirable vegetation, wells or other water sources.
2. Fill the sprayer tank with clean water and add one litre of household ammonia (containing 3% ammonia) per 100 litres of water. Allow the solution to agitate for 15 minutes prior to flushing the solution through the boom and nozzles. Drain the system.
3. Remove the nozzles and screens and wash separately in a bucket containing the ammonia solution.

4. Thoroughly rinse the tank, hoses, booms, nozzles and screens with clean water for a minimum of 5 minutes to remove all traces of ammonia.
5. Dispose of all rinsings in accordance with provincial regulations.

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