

GROUP	<b>27</b>	HERBICIDE
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## CALLISTO<sup>®</sup> 480SC Herbicide

AGRICULTURAL

SUSPENSION

A Herbicide for Preemergence use in Field, Seed, and Sweet Corn, and Cranberry and Postemergence use in Field Corn and Cranberry for Control of Annual Broadleaf Weeds

FOR SALE FOR USE ON CORN IN EASTERN CANADA AND BRITISH COLUMBIA ONLY AND ON CRANBERRY IN CANADA

**GUARANTEE:**

Mesotrione ..... 480 g/L

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

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**CAUTION: EYE IRRITANT  
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO.: **27833**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L - Bulk**

**Syngenta Crop Protection Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario  
N1G 4Z3  
Telephone: 1-877-964-3682

## 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. The user assumes the risk to persons or property that arises from any such use of this product.

## 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.

May irritate eyes. Avoid contact with eyes. Potential skin sensitizer.

When handling the concentrate, wear a long sleeve shirt and long pants, chemical-resistant gloves and eye protection. Wash the outside of the gloves before removing. Wash splashes from skin and eyes **IMMEDIATELY** with plenty of water. While spraying, wear a long sleeve shirt and long pants. Wear chemical-resistant gloves if contact with spray nozzles is necessary. 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** contaminate food and feed, irrigation and drinking water supplies, and aquatic habitat (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) by cleaning of equipment or disposal of wastes. The attached pamphlet must be consulted for mixing and spraying instructions.

**DO NOT** apply more than 0.30 L product/ha per season.

**DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), and estuarine/marine habitats.

For tank mixes, consult the label(s) of the tank mix partner(s), and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

#### **DO NOT APPLY BY AIR.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

#### **STORAGE CONDITIONS**

Always store product in original container with top closed in a cool, dry place. Avoid contamination of seed, feed and foodstuffs. CALLISTO 480SC herbicide can be stored in freezing conditions. If frozen, allow to thaw and agitate thoroughly prior to use.

#### **DECONTAMINATION AND DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

#### **CONTAINER DISPOSAL:**

##### **FOR DISPOSAL OF PLASTIC JUGS:**

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 requirements.

**FOR REFILLABLE CONTAINERS:**

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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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PAMPHLET

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**DO NOT** use or store product near heat or open flame. **DO NOT** apply beyond the field boundary.

**DO NOT** contaminate food and feed, irrigation and drinking water supplies, and aquatic habitat (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) by cleaning of equipment or disposal of wastes. Consult Mixing and Spraying instructions.

**DO NOT** apply more than 0.30 L product/ha per season.

**DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), and estuarine/marine habitats.

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**IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-327-8633 (FASTMED)**

**GENERAL INFORMATION**

CALLISTO 480SC is a suspension concentrate herbicide that provides selective control of annual broadleaf weeds in corn. CALLISTO 480SC herbicide has a high level of crop safety to allow for flexibility in application timing in corn. CALLISTO 480SC herbicide may be applied at preemergence and early and late post-emergence to control a wide range of broadleaf weeds in corn.

CALLISTO 480SC herbicide may be tank mixed with a range of herbicides as part of a one pass broad-spectrum weed control program in corn.

In post-emergent applications, CALLISTO 480SC herbicide is absorbed through the leaves and is rapidly translocated to the plant's growing points.

CALLISTO 480SC Herbicide may also be tank mixed with a post-emergent grass herbicide for broader spectrum post-emergent weed control in corn.

**USE DIRECTIONS - CORN:**

**1.) Preemergent Application: (Field Corn, Production Seed Corn and Sweet Corn)**

Apply CALLISTO 480SC 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).

CALLISTO 480SC herbicide will control:

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

CALLISTO 480SC herbicide tank-mixed with DUAL<sup>®</sup> II Magnum<sup>®</sup>, PRIMEX TRA<sup>®</sup> II Magnum, DUAL II Magnum plus AATREX<sup>®</sup> Liquid 480 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 Preemergent Application:**

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

<sup>1</sup> Consult the label of the product(s) tank mixed with CALLISTO 480SC herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

**2.) Early Postemergent Application: (Field Corn only)**

Apply CALLISTO 480SC 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).

CALLISTO 480SC herbicide will control:

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

CALLISTO 480SC herbicide tank-mixed with DUAL II Magnum, PRIMEXTRA II Magnum, DUAL II Magnum plus AATREX Liquid 480 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 Early Postemergence Application**

**(Spike to 2 leaf stage of corn and cotyledon to 2 leaf stage of weeds):**

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

<sup>1</sup> Consult the label of the product(s) tank mixed with CALLISTO 480SC herbicide for specific instructions regarding grass and broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

**3.) Late Post-emergent Application: (Field Corn only)**

Apply CALLISTO 480SC 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 the non-ionic surfactant AGRAL<sup>®</sup> 90 at 0.20% v/v.

For best results, apply CALLISTO 480SC herbicide to actively growing weeds. Weeds that emerge after an application of CALLISTO 480SC herbicide will be controlled after they absorb the herbicide from the soil provided there is sufficient moisture for uptake.

CALLISTO 480SC herbicide will control:

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

up to the 8 leaf weed stage.

CALLISTO 480SC herbicide tank-mixed with AATREX will provide control of all four weeds listed above. CALLISTO 480SC herbicide tank-mixed with AATREX 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. CALLISTO 480SC herbicide tank-mixed with Ultim<sup>†</sup> or Accent<sup>†</sup> or Accent + AATREX or Ultim + AATREX will provide broad-spectrum control of annual broadleaf and grass weeds. Consult tank mix partner labels for precautions. Consult Ultim and Accent labels for use rates and weeds controlled.

### Use Rates for Post Emergent Application

(3 to 8 leaf stage of corn and up to 8 leaf stage of broadleaf weeds):

WEED CONTROLLED	RATE/HA CALLISTO 480SC <sup>1</sup>	RATE/HA TANK MIX PARTNER <sup>2</sup>
Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed (suppression only)	0.21 L	
Eastern black nightshade, redroot pigweed, velvetleaf, common ragweed	0.21 L	0.58 L AATREX Liquid 480
Weeds controlled by CALLISTO 480SC plus weeds controlled by Ultim 75DF	0.21 L	33.7 g Ultim 75DF <sup>3</sup>
Weeds controlled by tank mixture of CALLISTO 480SC + AATREX plus weeds controlled by Ultim 75DF	0.21 L	33.7 g Ultim 75DF <sup>3</sup> + 0.58 L AATREX Liquid 480
Weeds controlled by CALLISTO 480SC plus weeds controlled by Accent 75DF	0.21 L	33.4 g Accent 75DF
Weeds controlled by tank mixture of CALLISTO 480SC + AATREX plus weeds controlled by Accent 75DF	0.21 L	33.4 g Accent 75DF + 0.58 L AATREX Liquid 480
Weeds controlled by CALLISTO 480SC plus emerged annual and perennial weeds <b>For use ONLY on glyphosate tolerant corn</b>	0.21 L	2.5 L TOUCHDOWN iQ <sup>4</sup> or 1.8 L TOUCHDOWN TOTAL <sup>4</sup> or 1.67 L Roundup <sup>†</sup> Weathermax <sup>4</sup> or 2.5 L Roundup Original <sup>4</sup> or 2.5 L Roundup Transorb <sup>4</sup> or 2.5 L Glyphos <sup>†4</sup> or 2.5 L Credit Plus <sup>†4</sup> or 2.5 L Vantage <sup>†4</sup> or 2.5 L Vantage Plus <sup>4</sup> or 2.5 L Renegade <sup>†4</sup>

<b>WEED CONTROLLED</b>	<b>RATE/HA CALLISTO 480SC<sup>1</sup></b>	<b>RATE/HA TANK MIX PARTNER<sup>2</sup></b>
Weeds controlled by tank mixture of CALLISTO 480SC + AATREX plus emerged annual and perennial weeds <b>For use ONLY on glyphosate tolerant corn</b>	0.21 L	0.58 L AATREX Liquid 480 + 2.5 L TOUCHDOWN iQ <sup>4</sup> or 1.8 L TOUCHDOWN TOTAL <sup>4</sup> or 1.67 L Roundup Weathermax <sup>4</sup> or 2.5 L Roundup Original <sup>4</sup> or 2.5 L Roundup Transorb <sup>4</sup> or 2.5 L Glyphos <sup>4</sup> or 2.5 L Credit Plus <sup>4</sup> or 2.5 L Vantage <sup>4</sup> or 2.5 L Vantage Plus <sup>4</sup> or 2.5 L Renegade <sup>4</sup>

<sup>1</sup>Add AGRAL 90 at 0.2% v/v.

<sup>2</sup>Consult the label of the product(s) tank mixed with CALLISTO 480SC herbicide for specific instructions regarding soil-type variations, and rotational crop, grazing or other restrictions.

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

<sup>4</sup> Some perennial weeds may not be controlled with these rates of TOUCHDOWN iQ, TOUCHDOWN TOTAL, Roundup Weathermax, Roundup Original, Roundup Transorb, Glyphos, Credit Plus, Vantage, Vantage Plus or Renegade Herbicide. Consult the TOUCHDOWN iQ, TOUCHDOWN TOTAL, Roundup Weathermax, Roundup Original, Roundup Transorb, Glyphos, Credit Plus, Vantage, Vantage Plus or Renegade herbicide label regarding perennial weeds controlled.

#### **Pre-Harvest Intervals:**

<b>Crops PHI</b>	<b>(days)</b>
Field corn grain/stover	100
Field corn forage	90
Sweet corn	50

#### **USE PRECAUTIONS:**

CALLISTO 480SC herbicide may be used preemergent on Field Corn, Production Seed Corn, and Sweet Corn. Postemergent applications may be made on Field Corn only. Not all seed corn inbreds and sweet corn varieties have been tested; the use of CALLISTO 480SC herbicide must be approved by the seed company and comply with the directions given by the seed corn company.

Although CALLISTO 480SC 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 CALLISTO 480SC herbicide (refer to "RECROPPING GUIDELINES").

Do not apply when weather conditions may cause drift to non-target areas. To avoid spray drift, do not apply when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet sizes will also reduce spray drift.

Dry conditions following application may reduce the preemergent activity of CALLISTO 480SC herbicide. If an activating rain (12 mm) is not received within 7-10 days after a preemergent 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 CALLISTO 480SC 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. Corn quickly outgrows these effects and continues to grow normally.

Do not make a foliar postemergent application of any organophosphate or carbamate insecticide within 7 days before or 7 days after a CALLISTO 480SC herbicide application or severe corn injury may occur. Syngenta Crop Protection Canada, Inc. will not be held responsible for losses or damage resulting from such use.

Severe corn injury and crop yield loss may occur if CALLISTO 480SC herbicide is applied to corn crops that are treated with Lorsban<sup>†</sup>.

CALLISTO 480SC herbicide may be applied prior to or following a pyrethroid-type insecticide such as FORCE<sup>®</sup> or MATADOR<sup>®</sup>.

Do not cultivate corn within 7 days before or after a postemergent CALLISTO 480SC herbicide application.

Make only one application of CALLISTO 480SC herbicide per year.

#### **MIXING AND SPRAYING INSTRUCTIONS:**

**DO NOT** apply during periods of dead calm or when winds are gusty.

#### **Buffer zones:**

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

Method of application	Buffer zone (metres) required for the protection of:	
	Freshwater habitat	Terrestrial habitat
Field sprayer	10	15

#### **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:**

Postemergent applications of CALLISTO 480SC herbicide must be applied with the non-ionic surfactant AGRAL 90 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 or Accent slowly and agitate until completely dispersed.
5. Add CALLISTO 480SC herbicide and PRIMEX TRA II Magnum 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 if required.
8. Add TOUCHDOWN iQ Liquid, TOUCHDOWN TOTAL, Roundup Weathermax, Roundup Original, Roundup Transorb, Glyphos, Credit Plus, Vantage, Vantage Plus, or Renegade if required. Refer to the label of the tankmix partner and the surfactant for the specific mixing instructions.
9. Add the non-ionic surfactant if applicable (e.g., AGRAL 90) at 0.2% v/v.
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. **CALLISTO 480SC 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.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

**FIELD CORN (EASTERN CANADA ONLY):**

TIMING <sup>1</sup>	WEEDS CONTROLLED	RATE/HA CALLISTO 480SC HERBICIDE	RATE <sup>2</sup> PER HECTARE/TANK MIX PARTNER	REMARKS
Pre-emergent	Tall Waterhemp	0.30 L	3 – 4 L PRIMEXTRA II MAGNUM <sup>3</sup> in 200 L carrier/ha.	Make only one application per year. Apply by ground equipment only.
Post-emergent <sup>4</sup>	Volunteer Adzuki Bean ( <i>Vigna angularis</i> ), Giant Ragweed <sup>5</sup> and Tall Waterhemp	0.21 L	0.58 L AATREX Liquid 480 Herbicide + 0.2% v/v AGRAL 90 in 100-200 L water/ha.	Make only one application per year. Apply by ground equipment only.

<sup>1</sup> Apply at 3-8 leaf stage of corn.

<sup>2</sup> Consult tank mix partner label for precautions.

<sup>3</sup> Use the higher rate of PRIMEXTRA II Magnum Herbicide for heavier weed problems.

<sup>4</sup> Apply at the unifoliate to fourth trifoliate leaf stage of adzuki bean, when giant ragweed is at the cotyledon-10 leaf stage and up to 8 leaf stage of Tall Waterhemp.

<sup>5</sup> Suppression only.

**SEED AND SWEET CORN (EASTERN CANADA AND BRITISH COLUMBIA ONLY):**

TIMING	RATE/HA CALLISTO 480SC HERBICIDE	RATE <sup>1</sup> /HA TANK MIX PARTNER	REMARKS
Post-emergent <sup>2</sup>	0.21 L	0.2% v/v AGRAL 90	<p>Make only one application per year. Apply in 100-200 L water/ha at 205-300 kPa.</p> <p>DO NOT APPLY BY AIR.</p> <p>Do not harvest sweet corn treated with CALLISTO 480SC 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 CALLISTO 480SC. Since not all seed corn inbreds or sweet corn varieties have been tested for tolerance to CALLISTO 480SC, first use of CALLISTO 480SC should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific seed corn inbreds to CALLISTO 480SC.</p> <p>Do NOT apply on Delmonte 2038 as unacceptable crop injury will occur.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p>

<sup>1</sup> Consult tank mix partner label for precautions<sup>2</sup> Late post-emergence (3-6 leaf stage)

**ESTABLISHED CRANBERRY BEDS:**

TIMING RATE/HA	CALLISTO 480SC HERBICIDE	WEEDS CONTROLLED	REMARKS
Pre-emergent <sup>1</sup> and early post-emergent	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>	<p>Make only one application per year.</p> <p>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.</p> <p>DO NOT APPLY BY AIR.</p> <p>DO NOT apply by hand.</p> <p>Use only ground boom equipment when applying this product.</p>
<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>	<p>Do not apply CALLISTO 480SC herbicide through any type of irrigation equipment.</p> <p><b><u>Bearing Beds</u></b> – Apply between bud break and fruit set. Do not harvest within 60 days of treatment.</p> <p><b><u>Non-Bearing Beds</u></b> – Apply between bud break and 60 days prior to fall or winter flooding. Do not harvest within 365 days of treatment.</p> <p>Do not flood within 60 days of treatment.</p> <p>Do not apply directly to water or 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 CALLISTO 480SC herbicide application in cranberries before replanting cranberries.</p>

<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 AGRAL 90 at 0.2% v/v.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, CALLISTO 480SC is a Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to CALLISTO 480SC 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 CALLISTO 480SC or other Group 27 herbicides 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.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

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 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

### RECROPPING GUIDELINES:

Certain crops have been shown to be sensitive to low residues of CALLISTO 480SC herbicide in the soil. The minimum recropping interval is the time between the last application of CALLISTO 480SC 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 CALLISTO 480SC herbicide, the following recropping intervals should be observed.

CROP	MINIMAL RECROPPING INTERVAL
Winter Wheat	4 months
Spring Wheat	10 months
Alfalfa, Potato, Soybeans, Transplanted Tomato, White Beans	11 months
All Other Crops	Bioassay

Observe the recropping guidelines of any product(s) to be tank mixed with CALLISTO 480SC 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 CALLISTO 480SC herbicide. An application of CALLISTO 480SC herbicide must NOT be made to the salvage crop.

Land treated with CALLISTO 480SC 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 CALLISTO 480SC 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 CALLISTO 480SC 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.

Product names marked ® or ™ are registered trademarks of a Syngenta Group Company  
All other products listed are trademarks of their respective companies.

GROUP **27** HERBICIDE

FOR EMERGENCY USE ONLY

## CALLISTO<sup>®</sup> 480SC Herbicide

### AGRICULTURAL

FOR SALE AND USE IN NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND AND LABRADOR TO CONTROL WEEDS IN ESTABLISHED NON-BEARING LOWBUSH BLUEBERRIES UNTIL DECEMBER 31, 2009

### GUARANTEE:

Mesotrione ..... 480 g/L

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

**READ THE ENTIRE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**CAUTION: EYE IRRITANT  
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO. **27833**  
PEST CONTROL PRODUCTS ACT

CONTAINER SIZE: **1 L- Bulk**

**Syngenta Crop Protection Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario  
N1G 4Z3  
Telephone: 1-877-964-3682

## 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. The user assumes the risk to persons or property that arises from any such use of this product.

## 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.

May irritate eyes. Avoid contact with eyes. Potential skin sensitizer.

When handling the concentrate, wear a long sleeve shirt and long pants, chemical-resistant gloves and eye protection. Wash the outside of the gloves before removing. Wash splashes from skin and eyes **IMMEDIATELY** with plenty of water. While spraying, wear a long sleeve shirt and long pants. Wear chemical-resistant gloves if contact with spray nozzles is necessary. 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** contaminate food and feed, irrigation and drinking water supplies, and aquatic habitat (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) by cleaning of equipment or disposal of wastes. Consult Mixing and Spraying instructions.

**DO NOT** apply more than 0.30 L product/ha per season.

**DO NOT APPLY BY AIR.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

**STORAGE CONDITIONS**

Always store product in original container with top closed in a cool, dry place. Avoid contamination of seed, feed and foodstuffs. CALLISTO 480SC herbicide can be stored in freezing conditions. If frozen, allow to thaw and agitate thoroughly prior to use.

**DECONTAMINATION AND DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

**CONTAINER DISPOSAL:**

**FOR DISPOSAL OF PLASTIC JUGS:**

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 requirements.

**FOR REFILLABLE CONTAINERS:**

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 use this container for any other purpose.

**IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-327-8633 (FASTMED)**

**NOTE TO BUYER/USER**

The DIRECTIONS FOR USE for this product for the control of weeds in established lowbush blueberries were developed by persons other than Syngenta Crop Protection Canada, Inc. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) crop tolerance (phytotoxicity) or carryover claims for this product when used to control weeds in established non-bearing lowbush blueberries.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Crop Protection Canada Inc. harmless, from any claims based on efficacy, phytotoxicity or carryover in connection with the use in blueberries described below.

**DIRECTIONS FOR USE**

CALLISTO 480SC Herbicide can be applied, once per year, in established non-bearing lowbush blueberries to control weeds listed below. Do not harvest within 365 days of application.

**Pre- and Early Post-Emergence to the Weeds (up to 2 leaf weed stage):**

Apply CALLISTO 480SC herbicide at 0.30 L per hectare in a spray volume of 200 L of water and a minimum pressure of 206 kPa (refer to the "MIXING AND SPRAYING INSTRUCTIONS" section of this label) for the control of lamb's-quarter, redroot pigweed, velvetleaf, wild mustard and common ragweed (suppression).

**OR**

**Late Post-Emergence to the Weeds (3 to 8 leaf weed stage):**

Apply CALLISTO 480SC 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) for the control of eastern black nightshade, velvetleaf, redroot pigweed and common ragweed (suppression). Always add a spray surfactant. Use the non-ionic surfactant AGRAL<sup>®</sup> 90 at 0.20% v/v.

For best results, apply CALLISTO 480SC herbicide to actively growing weeds. Weeds that emerge after an application of CALLISTO 480SC herbicide will be controlled after they absorb the herbicide from the soil provided there is sufficient moisture for uptake.

## **USE PRECAUTIONS:**

Although CALLISTO 480SC 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/replanting plans prior to using CALLISTO 480SC herbicide.

Do not apply when weather conditions may cause drift to non-target areas. To avoid spray drift, do not apply when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet sizes will also reduce spray drift.

Dry conditions following application may reduce the preemergent activity of CALLISTO 480SC herbicide. If an activating rain (12 mm) is not received within 7-10 days after a pre-emergent application, irrigation 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 CALLISTO 480SC 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.

Do not make a foliar postemergent application of any organophosphate or carbamate insecticide within 7 days before or 7 days after a CALLISTO 480SC herbicide application or severe crop injury may occur. Syngenta Crop Protection Canada, Inc. will not be held responsible for losses or damage resulting from such use.

CALLISTO 480SC herbicide may be applied prior to or following a pyrethroid-type insecticide such as FORCE<sup>®</sup> or MATADOR<sup>®</sup>.

Make only one application of CALLISTO 480SC herbicide per year.

## **MIXING AND SPRAYING INSTRUCTIONS:**

**DO NOT** apply during periods of dead calm or when winds are gusty.

### **Buffer zones:**

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

Method of application	Buffer zone (metres) required for the protection of:	
	Freshwater habitat	Terrestrial habitat
Field sprayer	10	15

### **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:**

Postemergent applications of CALLISTO 480SC herbicide must be applied with the non-ionic surfactant AGRAL 90 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. Add CALLISTO 480SC herbicide 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.
5. Fill the tank to three quarters full with water.
6. Add the non-ionic surfactant if applicable (e.g., AGRAL 90) at 0.2% v/v.
7. Continue agitation while completing the filling of the sprayer with water.
8. Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time.
9. If agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying. **CALLISTO 480SC herbicide must be sprayed the same day as mixing.**
10. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, CALLISTO 480SC is a Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to CALLISTO 480SC 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 CALLISTO 480SC or other Group 27 herbicides 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.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

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 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

**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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