

PMRA Approved  
May 6, 2010  
Sub. No. 2009-1807

**GROUP 1 HERBICIDE**

**MPOWER® Aurora™ Clodinafop Herbicide**  
Emulsifiable Concentrate

AGRICULTURAL

**FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER, OKANAGAN AND CRESTON FLATS REGIONS OF BRITISH COLUMBIA ONLY.**

A post emergence herbicide for control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian darnel and volunteer canary seed in Spring wheat and Durum wheat.

**GUARANTEE:**

Clodinafop-propargyl..... 240 g/L

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

**CAUTION**



**POISON**

**WARNING: EYE & SKIN IRRITANT**

Warning, contains the allergen epoxidized soybean oil

REGISTRATION NO.: **29711** PEST CONTROL PRODUCTS ACT

**Manufacturer:**

New Agco Inc.  
CGE International Insurance Services Ltd.  
"Orena" St. Lawrence Main Rd.  
Christ Church, Barbados BB15029

**Distributed by:**

AgraCity Crop & Nutrition Ltd.  
# 318-111 Research Drive  
Saskatoon, Saskatchewan  
Canada  
S7N 3R2

Contact number: 1-877-362-3276

NET CONTENTS: **1.84L, 3.68L, 4.7L, 14L, 15L, 55L, 200L, 450L, 1100L, Bulk**

## **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 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 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.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**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.

## **TOXICOLOGICAL INFORMATION**

This product contains a PETROLEUM DISTILLATE. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Treat symptomatically for ingestion and/or skin and eye contact.

## **PRECAUTIONS**

- CAUTION – POISON
- WARNING – EYE AND SKIN IRRITANT
- KEEP OUT OF THE REACH OF CHILDREN.
- Harmful if swallowed.
- May irritate eyes. Do not wear contact lenses when using.
- DO NOT get in eyes or on skin. Avoid contact with clothing. Wear coveralls or long sleeved shirt and long pants, chemical resistant gloves, and goggles when mixing, loading or during equipment clean up or repair.
- Wash gloves thoroughly with soap and water before removing them during any operation.
- Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label.
- Do not eat, drink or smoke while mixing, loading or during application.
- Do not enter or allow worker entry during the restricted entry interval (REI) of 12 hours after application.

## **ENVIRONMENTAL HAZARDS**

This product contains aromatic petroleum distillates which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic material such as clay).

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

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 U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

## **STORAGE**

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. Store separate from food, feed, and fertilizer.

## **DISPOSAL OF UNUSED, UNWANTED PRODUCT**

For information on disposal of unused, unwanted product, contact the provincial regulatory authorities, manufacturer or AgraCity Crop & Nutrition Ltd. at 1-877-362-3276. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills or call collect (CANUTEC) 1-613-996-6666 or \*666 from a cell phone.

## **CONTAINER DISPOSAL:**

### **For recyclable containers:**

Do not reuse this container for any purpose. This is a recyclable container, and may be disposed of at a container collection site. For details on collection and disposal of containers contact Agra City and Nutrition Ltd. at 1-877-362-3276. 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 OR POISONING, CALL  
613-996-6666 (collect) OR \*666 (cell).**

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**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.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**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.

## **TOXICOLOGICAL INFORMATION**

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- WARNING – EYE AND SKIN IRRITANT
- KEEP OUT OF THE REACH OF CHILDREN.
- Harmful if swallowed.
- May irritate eyes. Do not wear contact lenses when using.
- DO NOT get in eyes or on skin. Avoid contact with clothing. Wear coveralls or long sleeved shirt and long pants, chemical resistant gloves, and goggles when mixing, loading or during equipment clean up or repair.
- Wash gloves thoroughly with soap and water before removing them during any operation.
- Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap

- and water after handling. Handle and apply only as recommended on this label.
- Do not eat, drink or smoke while mixing, loading or during application.
  - Do not enter or allow worker entry during the restricted entry interval (REI) of 12 hours after application.

## **ENVIRONMENTAL HAZARDS**

This product contains aromatic petroleum distillates which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic material such as clay).

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

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 U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

## **STORAGE**

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. Store separate from food, feed, and fertilizer.

## **DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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- 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 OR POISONING, CALL 613-996-6666 (collect) OR \*666 (cell).

## **PRODUCT INFORMATION**

MPOWER Aurora Clodinafop Herbicide is a systemic, post-emergence herbicide for the selective control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian dandelion and volunteer canary seed in all types of Spring wheat and Durum wheat. Do not use MPOWER Aurora Clodinafop Herbicide on barley, as crop injury will occur. Do not apply this product using aerial application equipment except under conditions specified on this label.

MPOWER Aurora Clodinafop Herbicide is absorbed by the leaves and is rapidly translocated to the growing points of leaves and stems. Thorough coverage of the plants is essential for consistent control. Actively growing susceptible grasses stop growing within 48 hours of treatment. Depending on species, growing conditions and crop competition, leaves and growing points turn yellow within one to three weeks after application. Further colour changes and loss of vigour will be observed, followed by a browning and complete control three to five weeks after application.

Although MPOWER Aurora Clodinafop Herbicide does not control broadleaf weeds, MPOWER Aurora Clodinafop Herbicide can be tank-mixed with a wide range of broadleaf herbicides to provide broad spectrum weed control in wheat. See section entitled "TANK MIXES of MPOWER AURORA CLODINAPOP HERBICIDE WITH BROADLEAF WEED HERBICIDES" and refer to the appropriate Tank Mix section for ground and aerial application.

## **DIRECTIONS FOR USE**

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.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay.)

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

**CROPS:** Spring Wheat and Durum Wheat

MPOWER Aurora Clodinafop Herbicide can be used on all varieties of spring wheat and Durum wheat. Observe minimum interval to harvest of 60 days after treatment.



Do not apply on barley or any crop other than Spring Wheat or Durum wheat, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or Durum wheat.

Do not treat wheat underseeded to forages. Observe a minimum of three (3) days before grazing livestock on crops treated with MPOWER Aurora Clodinafop Herbicide.

For use directions specific to application by air, please refer to sections on aerial application. For aerial application precautions, please refer to the precautions section.

**WEEDS CONTROLLED:** Wild Oats, Volunteer (Tame) Oats, Green Foxtail, Yellow Foxtail, Barnyard grass, Persian Darnel and Volunteer Canary Seed

**TIMING OF APPLICATION:**

TIMING	GROWTH STAGE	ADDITIONAL REMARKS
WILD OATS	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
VOLUNTEER (TAME) OATS	3 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
GREEN FOXTAIL AND YELLOW FOXTAIL (wild millet, pigeon grass)	1 to 5 leaf stage on main stem	For optimum control apply prior to emergence of the 3 <sup>rd</sup> tiller and while foxtail is actively growing
BARNYARD GRASS	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while barnyard grass is actively growing
PERSIAN DARNEL	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while Persian darnel is actively growing
VOLUNTEER CANARY SEED	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
SPRING WHEAT AND DURUM WHEAT	Prior to emergence of 4th tiller	When tank-mixing with a broadleaf herbicide, always refer to the label of the broadleaf partner prior to use.

- For optimum results, apply MPOWER Aurora Clodinafop Herbicide to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of MPOWER Aurora Clodinafop Herbicide will not be controlled.
- Weed control following application of MPOWER Aurora Clodinafop Herbicide alone, or in combination with broadleaf weed herbicides, can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding or prolonged cool temperatures. Grass escapes or re-tillering may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of MPOWER Aurora Clodinafop Herbicide is delayed until the stress conditions have ended and weeds are once again actively growing.
- MPOWER Aurora Clodinafop Herbicide alone can be used 30 minutes before rainfall.
- Do not apply to crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

## RATE OF USE FOR GROUND APPLICATION:

Apply the recommended rate of MPOWER Aurora Clodinafop Herbicide and the recommended rate of an adjuvant of either SCORE, ASSIST, or Chem Spray Crop Oil Concentrate in a minimum of 50 to 100 L of water per hectare.

<p><b>To control:</b></p> <p>WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED</p>	<p><b>To control:</b></p> <p>WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED PERSIAN DARNEL</p>
<p><b>Rates for use with 50 L/ha water</b></p>	
<p><b>Apply:</b></p> <p>230 mL/ha of MPOWER Aurora Clodinafop Herbicide + 400 mL/ha of (SCORE, ASSIST, or Chem Spray Crop Oil Concentrate) with 50 L/ha of water (0.8% volume/volume)</p>	<p><b>Apply:</b></p> <p>290 mL/ha of MPOWER Aurora Clodinafop Herbicide + 500 mL/ha of (SCORE or ASSIST, or Chem Spray Crop Oil Concentrate) with 50 L/ha of water (1.0% volume/volume)</p>
<p><b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 3.2/6.4/6.96/8.16/14.0 L of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) treats 8 ha (20 acres)/16 ha (40 acres)/17.4 ha (43 acres)/20.4 ha (50.4 acres)/35 ha (86.4 acres) with 400/800/870/1020/1750 3.68 L of water.</p>	<p><b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 3.2/6.4/6.96/8.16/14.0 L of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) treats 6.4 ha (15.8 acres)/12.8 ha (31.4 acres)/13.9 ha (34.3 acres)/16.3 ha (40.2 acres)/28 ha (69 acres) with 320/640/695/815/1400 L of water.</p>
<p><b>Rates for use with 100 L/ha water</b></p>	
<p><b>Apply:</b></p> <p>230 mL/ha of MPOWER Aurora Clodinafop Herbicide + 800 mL/ha of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) with 100 L/ha of water (0.8% volume/volume)</p>	<p><b>Apply:</b></p> <p>290 mL/ha of MPOWER Aurora Clodinafop Herbicide + 1 L/ha of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) with 100 L/ha of water (1.0% volume/volume)</p>
<p><b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 6.4/12.8/13.9/16.3/28.0 L of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) treats 8 ha (20 acres)/16 ha (40 acres)/17.4 ha (43 acres)/20.4 ha (50.4 acres)/35 ha (86.4 acres) with 800/1600/1740/2040/3500 L of water.</p>	<p><b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 6.4/12.8/13.9/16.3/28.0 L of (SCORE, ASSIST or Chem Spray Crop Oil Concentrate) treats 6.4 ha (15.8 acres)/12.8 ha (31.4 acres)/13.9 ha (34.3 acres)/16.3 ha (40.2 acres)/28 ha (69 acres) with 640/1280/1390/1630/2800 L of water.</p>

**NOTE: Always use an adjuvant of either SCORE, ASSIST or CHEM SPRAY Crop Oil Concentrate with MPOWER Aurora Clodinafop Herbicide.**

## RATE OF USE FOR AERIAL APPLICATION:

Apply the recommended rate of MPOWER Aurora Clodinafop Herbicide and the recommended rate of an adjuvant of either SCORE, ASSIST, or Chem Spray Crop Oil Concentrate in a minimum of 30 L of water per hectare according to the following table:

To Control: WILD OATS	To Control: WILD OATS GREEN FOXTAIL YELLOW FOXTAIL PERSIAN DARNEL
<b>Apply:</b> 230 mL/ha of MPOWER Aurora Clodinafop Herbicide + 240 mL/ha of SCORE, ASSIST, or Chem Spray Crop Oil Concentrate with 30 L/ha of water (0.8% volume/volume)	<b>Apply:</b> 290 mL/ha of MPOWER Aurora Clodinafop Herbicide + 300 mL/ha of SCORE, ASSIST, or Chem Spray Crop Oil Concentrate with 30 L/ha of water (1.0% volume/volume)
<b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 1.92/3.84/4.18/4.9/8.4 L SCORE, ASSIST or Chem Spray Crop Oil Concentrate treats 8 ha (20 acres)/16 ha (40 acres)/17.4 ha (43 acres)/20.4 ha (50.4 acres)/35 ha (86.4 acres) with 240/480/522/612/1050 L of water.	<b>NOTE:</b> One 1.84/3.68/4.0/4.7/8.0 L jug of MPOWER Aurora Clodinafop Herbicide + 1.92/3.84/4.17/4.9/8.4 L SCORE, ASSIST or Chem Spray Crop Oil Concentrate treats 6.4 ha (15.8 acres)/12.8 ha (31.4 acres)/13.9 ha (34.3 acres)/16.3 ha (40.2 acres)/28 ha (69 acres) with 192/384/417/490/840 L of water.

**NOTE: Always use adjuvants of either SCORE, ASSIST or Chem Spray Crop Oil Concentrate with MPOWER Aurora Clodinafop Herbicide.**

## TANK MIXES of MPOWER AURORA CLODINAFOP HERBICIDE WITH BROADLEAF WEED HERBICIDES – GROUND APPLICATION:

**CROP:** SPRING and DURUM WHEAT

## TANK MIXES WITH BROADLEAF WEED HERBICIDES, IN SPRING WHEAT and DURUM WHEAT:

**For broad spectrum control of wild oats, green foxtail, barnyard grass, Persian Darnel and broadleaf weeds, MPOWER Aurora Clodinafop Herbicide can be tank-mixed with broadleaf herbicides as described in the following tables. Consult the label of the tank-mix partner for a list of broadleaf weeds controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific weeds, directions for use and precautions and follow the more restrictive label. When tank-mixing always add the broadleaf herbicide(s) to the spray tank first; followed by MPOWER Aurora Clodinafop Herbicide, with SCORE or ASSIST Adjuvant, or Chem Spray Crop Oil Concentrate added last. For the appropriate rate of MPOWER Aurora Clodinafop Herbicide with SCORE, ASSIST or Chem Spray Crop Oil Concentrate, refer to the 'Rate of Use' section of the label.**

<b>Tank-Mix Partner</b>	<b>Product Rates</b>	<b>Crop Stage<sup>1</sup></b>
Targe® Liquid Systemic Herbicide	1.0 to 1.5 L/ha	2 to 5 leaf
Dyvel®	1.25 L/ha	2 to 5 leaf
Refine Extra® <sup>2</sup>	20 g/ha	2 leaf to flag leaf
Buctril® M	1.0 L/ha	2 leaf to flag leaf
Estaprop®	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Turboprop® 600	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Dichlorprop® -D	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Unity™ <sup>2</sup>	1 carton/16 ha	2 leaf to flag leaf
Lontrel 360 EC tank mixed with MCPA Ester (assume 500 series)	280 to 420 mL/ha tank mixed with 1.1 L/ha	3 leaf to flag leaf
Curtail™ M	2.0 L/ha	3 leaf to just before flag leaf
Thumper® EC	1.0 L/ha	2 leaf to early flag leaf
2,4-D Amine (assume 500 series) <sup>3</sup>	840 mL to 1.1 L/ha	3 leaf to flag leaf
MCPA Amine (assume 500 series) <sup>3</sup>	840 mL to 1.1 L/ha	3 leaf to flag leaf
MCPA Ester (assume 500 series)	840 mL to 1.1 L/ha	3 leaf to flag leaf
Pardner®	1.0 L/ha	2 leaf to flag leaf
Ally® <sup>2</sup>	7.5 g/ha	2 leaf to flag leaf
Attain® Herbicide Tank Mix	600 mL/ha of Attain A + 1.0 L/ha of Attain B	4 leaf to flag leaf

<sup>1</sup> Always consult the label of the broadleaf herbicide prior to use.

<sup>2</sup> Addition of surfactants other than Score, ASSIST or Chem Spray Crop Oil Concentrate is not required.

<sup>3</sup> A reduction in control of green foxtail and wild oats may be observed when MPOWER Aurora Clodinafop Herbicide is tank mixed with 2,4-D Amine and MCPA Amine.

Temporary crop injury may occur with tank-mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture level or extreme temperatures.

Do not tank-mix with any chemical additives, pesticides, or fertilizers that are not recommended on this label.

## **TANK MIXES OF MPOWER AURORA CLODINAFOP HERBICIDE WITH BROADLEAF WEED HERBICIDES - AERIAL APPLICATION:**

### **CROP: SPRING WHEAT and DURUM WHEAT**

For broad spectrum control of wild oats, green foxtail and broadleaf weeds, MPOWER Aurora Clodinafop Herbicide can be tank-mixed with Buctril M. Consult the label of the tank-mix partner for a list of broadleaf weeds controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific weeds, directions for use and precautions and follow the more restrictive label. Use in a minimum of 30L of water per hectare.

Tank-mixes of MPOWER Aurora Clodinafop Herbicide with broadleaf weed herbicides - Aerial application: When tank-mixing always add the broadleaf herbicide (Buctril M) to the spray tank first; followed by MPOWER Aurora Clodinafop Herbicide, with an adjuvant of either SCORE, ASSIST or Chem Spray Crop Oil Concentrate added last. For the appropriate rate of MPOWER Aurora Clodinafop Herbicide with an adjuvant of either SCORE, ASSIST or Chem Spray Crop Oil Concentrate refer to the 'Rate of Use For Aerial Application' section of the label.

Tank-Mix Partner	Product Rates	Crop Stage <sup>1</sup>
Buctril M	1.0 L/ha	2 leaf to flag leaf

<sup>1</sup> Always consult the label of the broadleaf partner prior to use.

## BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The 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 Zones (metres) Required for the Protection of:	
		Aquatic Habitat	Terrestrial habitat
Field sprayer*	Spring wheat and durum wheat	15	0
Aerial	Spring wheat and durum wheat	72	76

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

## MIXING INSTRUCTIONS - GROUND APPLICATION:

- 1 Clean spray tank and half fill with clean water. Start agitation or bypass system
- 2 If a broadleaf herbicide, insecticide or fungicide is to be used, add the product **FIRST** prior to adding MPOWER Aurora Clodinafop Herbicide and agitate for 2-3 minutes.
- 3 Add correct amount of MPOWER Aurora Clodinafop Herbicide.
- 4 Agitate for 2-3 minutes.
- 5 Add correct amount of either SCORE, ASSIST or Chem Spray Crop Oil Concentrate.
- 6 Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
- 7 After any break in spraying operations, agitate thoroughly before spraying again.
- 8 **Use the spray suspension as soon as it is prepared.**
- 9 If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

## SPRAYING INSTRUCTIONS - GROUND APPLICATION:

- 1 MPOWER Aurora Clodinafop Herbicide can be applied by ground or air. For aerial application instructions, refer to the section entitled "SPRAYING INSTRUCTIONS - AERIAL APPLICATION" which follows this section.

- 2 Water Volume: 50 to 100 litres per hectare when applied alone and a minimum of 100L/ha when tank-mixed with broadleaf herbicides
- 3 Spray Nozzles: 80° or 110° flat fan stainless steel nozzles are recommended for optimal spray coverage. Application of the spray mixture at a 45° angle in the direction of travel will result in improved spray coverage. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
- 4 Pressure: 275-310 kPa.
- 5 Apply uniformly at 6-8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an over application.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

## **AERIAL APPLICATION**

### **Generic Aerial Application Label Instructions - Directions for Use**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

## **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call AGRACITY CROP & NUTRITION LTD. at 1-877-362-3276 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

### **MIXING INSTRUCTIONS - AERIAL APPLICATION:**

1. Fill the mixing tank 1/2 full with clean water. Start gentle agitation.
2. If a broadleaf herbicide is to be used, add the product FIRST prior to adding MPOWER Aurora Clodinafop Herbicide and agitate for 2-3 minutes then add correct amount of MPOWER Aurora Clodinafop Herbicide.
3. Agitate for 2-3 minutes.
4. Add correct amount of an adjuvant of either Score, Assist or Chem Spray Crop Oil Concentrate.
5. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
6. Fill aircraft spray tank and maintain gentle agitation while spraying.
7. After any break in spraying operations, agitate thoroughly before spraying again. Do not let contents stand without agitation.
8. **Use the spray suspension as soon as it is prepared.**
9. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

### **SPRAYING INSTRUCTIONS - AERIAL APPLICATION:**

- 1 MPOWER Aurora Clodinafop Herbicide can be applied by ground or by air. For ground application instructions, refer to the section entitled "SPRAYING INSTRUCTIONS - GROUND APPLICATION" which precedes this section.
- 2 Water Volume - Aerial application: Minimum of 30 litres per hectare when applied alone or when tank mixed with Buctril M.
- 3 Ensure uniform application. To avoid uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification, with a volume medium diameter (VMD) greater than 350 microns. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotor-span.

### **SPRAYER CLEAN-UP:**

- 1 Thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following recommendations are provided:
- 2 Drain and flush tank walls, boom and all hoses for ten minutes with clean water. Do not

- clean the sprayer near desirable vegetation, wells, or other water sources.
- 3 Remove the nozzles and screens and wash separately.
  - 4 Dispose of all rinsings in accordance with provincial regulations.
  - 5 If a broadleaf tank-mix partner is used, always check tank-mix partner label for any additional clean up procedures.

### **Resistance-Management Recommendations**

For resistance management, MPOWER Aurora Clodinafop Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to MPOWER Aurora Clodinafop Herbicide and other Group 1 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 MPOWER Aurora Clodinafop Herbicide or other Group 1 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 or to report suspected resistance, contact company AGRACITY CROP & NUTRITION LTD. at 1-877-362-3276 or at [www.fna.ca](http://www.fna.ca).

#### **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 use described below were developed by persons other than NewAgco, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. NewAgco, 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 crop listed below.



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

**DIRECTIONS FOR USE IN THE OKANAGAN AND CRESTON FLATS REGION OF BC:**

MPOWER Aurora Clodinafop Herbicide can be used for the control of wild oats, green foxtail and yellow foxtail in spring wheat and durum wheat in the Okanagan and Creston Flats Regions of British Columbia. For information on crop and weed stages, rates of application, mixing and spraying instructions and precautions see the appropriate sections elsewhere on this label.

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