

**[Carton Label]**

GROUP	<b>2</b>	HERBICIDE
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## **MPOWER R**

**75% Water Dispersible Granules**

FOR SALE FOR USE ON WHEAT (SPRING, WINTER OR DURUM), SPRING BARLEY AND OATS, AND SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION ONLY

### **AGRICULTURAL**

**GUARANTEE:** Thifensulfuron-methyl 50%  
Tribenuron-methyl 25%

**Warning: contains the allergens milk and sulfites**

REGISTRATION NO.: **30945**  
PEST CONTROL PRODUCTS ACT

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

<p><b>IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 613-996-6666 (collect)</b></p>
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**NewAgco Inc.**  
Orena, St. Lawrence Main Road  
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:**

MPOWER R is a registered trademark of NewAgco Inc.

**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- Avoid contact with skin, eyes and clothing. Wear goggles or face shield, coveralls, and suitable chemical resistant gloves during mixing and loading.
- Do not contaminate any body of water.
- May be harmful if swallowed, inhaled or absorbed through skin.
- Causes eye and skin irritation.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before re-use.
- Do not enter or allow worker re-entry treated fields for 12 hours after treatment.
- Do not apply by air.

NOTE: 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 website at [www.croplife.ca](http://www.croplife.ca).

**FIRST AID**

**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 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 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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. For medical emergencies call 613-996-6666.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**STORAGE:**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed

**DISPOSAL:**

1. Make the empty container unsuitable for further use.
2. Dispose of the container in accordance with provincial requirements.
3. For information on the 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.

**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.

[Booklet]

GROUP

2

HERBICIDE

## MPOWER R

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FOR SALE FOR USE ON WHEAT (SPRING, WINTER OR DURUM), SPRING BARLEY AND OATS, AND SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION ONLY

### AGRICULTURAL

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DAY OR NIGHT: 613-966-6666 (collect)**

**NewAgco Inc.**  
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Saskatoon, Saskatchewan  
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S7N 3R2  
Contact number: 1-877-362-3276

**NET CONTENTS:**

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**PRECAUTIONS:****• KEEP OUT OF REACH OF CHILDREN.**

- Avoid contact with skin, eyes and clothing. Wear goggles or face shield, coveralls, and suitable chemical resistant gloves during mixing and loading.
- Do not contaminate any body of water.
- May be harmful if swallowed, inhaled or absorbed through skin.
- Causes eye and skin irritation.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before re-use.
- Do not enter or allow worker re-entry treated fields for 12 hours after treatment.
- Do not apply by air.

NOTE: 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 website at [www.croplife.ca](http://www.croplife.ca).

**FIRST AID**

**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 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 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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. For medical emergencies call 613-996-6666.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**ENVIRONMENTAL PRECAUTIONS:**

- Overspray or drift to important wildlife habits such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided. Leave a 15-meter buffer zone between the last spray swath and the edge of any of these habitats.
- Do not use on highly variable soils that have large gravelly or sand areas, eroded knolls, or calcium deposits.
- Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- Do not contaminate irrigation water. Do not apply to land where tail water will be used to irrigate cropland.
- Do not apply more than 20 g per hectare of **MPOWER R** per crop year.

**IMPORTANT**

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, recreational grounds or similar

areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on other crops.

DO NOT APPLY BY AIR.

Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat, barley or oats.

APPLY WITH A SURFACTANT REGISTERED FOR USE WITH **MPOWER R**.

#### **GENERAL INFORMATION**

**MPOWER R** is recommended for selective postemergence control or suppression of broadleaf weeds in wheat (spring, winter or durum), spring barley and oats not underseeded to legumes or grasses. **MPOWER R** is a 75% active ingredient herbicide formulated as a water dispersible granule. **MPOWER R** is to be mixed with water and a recommended surfactant and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile and does not freeze.

**MPOWER R** MUST be applied with a recommended surfactant, early postemergence, to the main flush of actively growing broadleaf weeds. Recommended surfactants are AGRAL\* 90, AG-SURF\*, CITOWETT\* PLUS and LIBERATE.

Warm, moist growing conditions promote active weed growth and enhance the activity of **MPOWER R** by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details. **MPOWER R** stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

Canola, flax, lentils and alfalfa may be planted two months after an application of **MPOWER R**. Any crop may be planted in the year following the use of **MPOWER R**. One 320 g container of **MPOWER R** treats 16 ha.

#### **IMPORTANT INFORMATION: READ BEFORE USING**

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, recreational grounds or similar areas.
- Prevent drift of spray to desirable plants.
- Do not contaminate any body of water, including irrigation water that may be used on other crops.
- Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat, spring barley or oats.

#### **REPLANTING TO OTHER CROPS:**

##### **Minimum Crop Rotation Guidelines:**

<b>Minimum Interval</b>	<b>Crop</b>
2 months	Canola, Flax, Lentils, Alfalfa
Next crop year	All crops

#### **GRAZING/HARVEST RESTRICTIONS:**

Wheat, spring barley or oats may not be grazed or fed to livestock within 7 days of application.

**VARIETY RESTRICTIONS:**

Limit use of **MPOWER R** to currently licensed varieties of wheat (spring, durum, winter), spring barley and oats. Consult AgraCity Crop & Nutrition Ltd., prior to use on unlicensed varieties for crop tolerance information. **DO NOT USE ON LEGER SPRING BARLEY OR BELVEDERE WHEAT VARIETIES.**

**APPLICATION INFORMATION:**

**APPLICATION PRECAUTIONS:**

- DO NOT APPLY BY AIR.
- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.
- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided. Leave a 15-meter buffer zone between the last spray swath and the edge of any of these habitats.
- Apply with an adjuvant registered for use with **MPOWER R**.
- Use only water as a carrier. Other carriers may accelerate breakdown of **MPOWER R** and reduce its effectiveness.
- Do not apply to crops underseeded to legumes or grasses as injury to forage may result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Under certain conditions, such as heavy rainfall, prolonged cool weather, frost or wide fluctuations in day/night temperatures, temporary lightening in crop colour, and occasionally, a slight reduction in crop height may occur.
- Do not apply more than 20 grams/hectare of **MPOWER R** per year.

**APPLICATION INSTRUCTIONS:**

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh or larger filter screens (metal or nylon). A spray pressure of 210-275 kPa is recommended.

Continuous agitation is required to keep **MPOWER R** in suspension. Apply uniformly. Avoid overlapping and shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

**DIRECTIONS FOR USE**

**WHEAT (SPRING, DURUM, WINTER), SPRING BARLEY AND OATS**

<b>MPOWER R</b>	
<b>LOCATION: Not restricted</b>	
<b>CROP(S): wheat (spring, durum, winter), spring barley and oats only</b>	
<b>TIMING:</b> Post-emergent application from 2-leaf to flag leaf (shot blade) growth stage of crop, prior to head emergence, but before the crop canopy will prevent thorough coverage of target weeds. For best results apply to young, actively growing weeds that are less than 10 cm in height or diameter. Thorough coverage of target weeds is essential.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	<b>20 grams/hectare</b>

<b>Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS, LIBERATE or NUFARM ENHANCE</b>	<b>2 litres/1000 litres of spray solution</b>
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then adjuvant. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
annual smartweed (green smartweed, lady's thumb)/ball mustard/chickweed <sup>1</sup> /corn spurry/cow cockle/flixweed/groundsel (common)/hemp-nettle/kochia/lamb's quarters/narrow-leaved hawk's beard/redroot pigweed/Russian thistle/shepherd's purse/stinkweed/tartary buckwheat/volunteer rapeseed <sup>2</sup> /volunteer sunflower/wild buckwheat <sup>3</sup> /wild mustard	
<b>Notes</b>	
<sup>1</sup> Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough herbicide coverage of weeds. Chickweed emerging after application will not be controlled.	
<sup>2</sup> <b>MPOWER R</b> alone will not control imazamox and imazethapyr tolerant canola (e.g., Clearfield* canola).	
<sup>3</sup> Apply to actively growing wild buckwheat in the cotyledon 1-3 leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.	
<b>WEEDS SUPPRESSED</b>	
Canada thistle <sup>4</sup> /cleavers (1-3 whorls)/round leaved mallow <sup>5</sup> /scentless chamomile/Sow thistle <sup>4</sup> /stork's bill (2-6 leaf)/toadflax <sup>6</sup>	
<b>Notes</b>	
<sup>4</sup> Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be suppressed	
<sup>5</sup> Apply to actively growing round leaved mallow from the 2-6 leaf stage (10-12 cm in height). <b>MPOWER R</b> will keep mallow stunted, but may not reduce overall populations.	
<sup>6</sup> Apply to toadflax that is no larger than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.	
<b>NOTE:</b> Rainfall within 4 hours of application of <b>MPOWER R</b> will result in reduced weed control.	

<b>MPOWER R + MCPA</b>	
<b>LOCATION: Not restricted</b>	
<b>CROP(S): wheat (spring, durum, winter), spring barley and oats only</b>	
<b>TIMING:</b> Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	<b>20 grams/hectare</b>
MCPA Amine or Ester 500	0.7-1.1 litres/hectare (350-560 grams acid equivalent/hectare)
OR	
MCPA Ester 500	0.56 litres/hectare (280 grams acid equivalent/hectare)
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then MCPA to the tank while maintaining agitation, then adjuvant. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED BY MPOWER R+ MCPA AT 0.7-1.1 L/HA</b>	

annual smartweed (green smartweed, lady's thumb)/ball mustard/burdocks (seedling)/chickweed<sup>1</sup>/cocklebur<sup>2</sup>/corn spurry/cow cockle/false ragweed<sup>2</sup>/flixweed/giant ragweed<sup>2</sup>/hare's-ear mustard/hemp-nettle/Indian mustard/kochia<sup>2</sup>/lamb's quarters/plantain (common)/prickly lettuce/ragweed<sup>2</sup>/redroot pigweed/Russian pigweed<sup>2</sup>/Russian thistle/shepherd's purse/stinkweed/tartary buckwheat/tumble mustard/volunteer rapeseed/wild buckwheat<sup>3</sup>/wild mustard/wild radish/wormseed mustard

**WEEDS CONTROLLED MPOWER R+ MCPA  
ESTER 500 AT 0.56 L/HA**

Weeds controlled by **MPOWER R** as well as volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield\* canola)(2-4 leaf stage)

**Notes**

<sup>1</sup> Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough herbicide coverage of weeds. Chickweed emerging after application will not be controlled.

<sup>2</sup> Use minimum of 400 grams MCPA active ingredient per hectare.

<sup>3</sup> Apply to actively growing wild buckwheat in the cotyledon 1-3 leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.

**WEEDS SUPPRESSED**

Canada thistle<sup>4</sup>/round leaved mallow<sup>5</sup>/scentless chamomile/sow thistle<sup>4</sup>/stork's bill (2-6 leaf)  
(MCPA Ester only)

**Notes**

<sup>4</sup> Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be suppressed.

<sup>5</sup> Apply to actively growing round leaved mallow from the 2-6 leaf stage (10-12 cm in height).

**MPOWER R + MCPA** will keep mallow stunted, but may not reduce overall populations.

**NOTES:** Ensure that **MPOWER R** is completely in suspension before adding MCPA. Consult the MCPA label for additional application instructions and use precautions.

**WHEAT (SPRING, DURUM, WINTER) AND SPRING BARLEY**

<b>MPOWER R + 2,4-D AMINE or ESTER</b>	
<b>LOCATION: Not restricted</b>	
<b>CROP(S):</b> wheat (spring, durum, winter) and spring barley only. <b>DO NOT USE ON OATS</b>	
<b>TIMING:</b> Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	<b>20 grams/hectare</b>
Choose one of the following:	
1) 2,4-D Amine 500	0.84-1.1 litres/hectare
2) 2,4-D Ester LV700	0.6-0.8 litres/hectare
3) 2,4-D Ester LV600	0.7-0.9 litres/hectare
4) Acid equivalent.	



=420 – 550 gms active/ha.	
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then 2,4-D to the tank while maintaining agitation, then adjuvant. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
annual smartweed (green smartweed, lady's thumb)/ball mustard/burdocks (seedling)/chickweed <sup>1</sup> /cocklebur/common ragweed/corn spurry/cow cockle/false ragweed/flixweed/giant ragweed/hare's-ear mustard/hemp-nettle/Indian mustard/kochia/lamb's quarters/plantain (common)/prickly lettuce/redroot pigweed/Russian pigweed/Russian thistle/shepherd's purse/stinkweed/stork's bill (2-6 leaf) (2,4-D Ester only)/tartary buckwheat/tumble mustard/volunteer rapeseed <sup>2</sup> /wild buckwheat <sup>3</sup> /wild mustard/wild radish/wormseed mustard	
<b>Notes</b>	
<sup>1</sup> Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough herbicide coverage of weeds. Chickweed emerging after application will not be controlled.	
<sup>2</sup> For imazamox and imazethapyr tolerant canola (e.g., Clearfield* canola) consult the 2,4-D label for appropriate use rates.	
<sup>3</sup> Apply to actively growing wild buckwheat in the cotyledon 1-3 leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.	
<b>WEEDS SUPPRESSED</b>	
Canada thistle <sup>4</sup> /round leaved mallow <sup>5</sup> /scentless chamomile/sow thistle <sup>4</sup> /toadflax (2,4-D Ester only)	
<b>Notes</b>	
<sup>4</sup> Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. <b>MPOWER R</b> + 2,4-D will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be suppressed.	
<sup>5</sup> Apply to actively growing round leaved mallow from the 2-6 leaf stage (10-12 cm in height). <b>MPOWER R</b> + 2,4-D will keep mallow stunted, but may not reduce overall populations.	
NOTES: Ensure that <b>MPOWER R</b> is completely in suspension before adding 2,4-D. Consult the 2,4-D label for additional application instructions and use precautions.	

### **SPRING WHEAT (INCLUDING DURUM) AND SPRING BARLEY**

<b>MPOWER R + ASSERT*</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 2-leaf to 6-leaf growth stage of crop. Apply to wild oats from the 1-4 leaf stage.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>ASSERT*</b>	1.3 litres/hectare for 1-3 leaf stage of wild oats 1.6 litres/hectare for 4-leaf stage of wild oats

No adjuvant required.
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Spray Water pH Adjuster then Assert*.
Ensure that <b>MPOWER R</b> is completely in suspension before adding pH Adjuster and that pH Adjuster is completely dissolved before adding Assert* while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.
<b>WEEDS CONTROLLED</b>
Broadleaf weeds controlled by <b>MPOWER R</b> alone, as well as wild oats.
<b>NOTES:</b> Use spray preparation within 12 hours or product degradation may occur. Consult the Assert* label for additional application instructions, use precautions and recropping information.

<b>MPOWER R + ASSERT* + MCPA Ester 500</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 4-leaf to 6-leaf growth stage of crop. Apply to wild oats from the 1-4 leaf stage.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>ASSERT*</b>	<b>BROWN AND DARK BROWN SOIL ZONES</b>
	1.3 litres/hectare for 1-3 leaf stage of wild oats 1.6 litres/hectare for 4-leaf stage of wild oats
	<b>BLACK AND GREY WOODDED SOIL ZONES</b>
	1.6 litres/hectare
<b>MCPA Ester 500</b>	0.7-1.1 litres/hectare (350-560 grams acid equivalent/hectare)
No adjuvant required.	
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Spray Water pH Adjuster then Assert* then MCPA Ester 500. Ensure that <b>MPOWER R</b> is completely in suspension before adding pH Adjuster and that pH Adjuster is completely dissolved before adding Assert*, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled by <b>MPOWER R</b> alone, as well as wild oats.	
<b>NOTES:</b> Use spray preparation within 12 hours or product degradation may occur. Consult the Assert* and MCPA Ester 500 labels for additional application instructions, use precautions and recropping information.	

<b>MPOWER R + AXIAL* 100EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to flag leaf. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of 4th tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>AXIAL* 100 EC Herbicide</b>	400 mL/hectare for Persian darnel only 600mL/hectare for wild oats, volunteer oats, green foxtail, yellow foxtail, volunteer canary

	seed, and proso millet.
ADIGOR* Adjuvant Or MERGE* Adjuvant	700 mL/hectare
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Axial* 100 EC Herbicide, then Adigor* or Merge*, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, plus wild oats, volunteer oats, green foxtail, yellow foxtail, Persian darnel, volunteer canary seed, and proso millet.	
<b>NOTES:</b> Do not harvest within 60 days for grain and straw and 30 days for hay. Do not graze treated crop for 7 days after application. Consult AXIAL* 100 EC Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + AXIAL* 100EC Herbicide + MCPA Ester 500</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to flag leaf. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of 4 <sup>th</sup> tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
AXIAL* 100 EC Herbicide	400 mL/hectare for Persian darnel only 600mL/hectare for wild oats, volunteer oats, green foxtail, yellow foxtail, volunteer canary seed, and proso millet.
MCPA Ester 500	560 mL/hectare for volunteer imazamox and imazethapyr tolerant canola(e.g. Clearfield canola)(2 4 leaf stage).  700 mL/hectare for weeds controlled by MCPA Ester at this rate
ADIGOR* Adjuvant OR MERGE* Adjuvant	700 mL/hectare
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Axial* 100 EC Herbicide, then MCPA Ester 500, and finally Adigor* or Merge*, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as weeds controlled by MCPA Ester 500 at 700 mL/hectare, or volunteer imazamox and imazethapyr tolerant canola (e.g. Clearfield* canola)(2-4 leaf stage) when applied at 560 mL/hectare, plus wild oats, volunteer oats, green foxtail, yellow foxtail, Persian darnel, volunteer canary seed, and proso millet.	
<b>NOTES:</b> Do not harvest within 60 days for grain and straw and 30 days for hay. Do not graze treated crop for 7 days after application. Consult AXIAL* 100 EC Herbicide and MCPA Ester labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + COUGAR 120 EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
COUGAR 120 EC Herbicide	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
<b>No adjuvant required</b>	
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then COUGAR 120 EC Herbicide, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as green foxtail, yellow foxtail, barnyard grass and wild oats.	
<b>NOTES:</b> Consult the COUGAR 120 EC Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + CORDON Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
CORDON Herbicide	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
<b>No adjuvant required</b>	
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then CORDON Herbicide, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as green foxtail, yellow foxtail, barnyard grass and wild oats.	
<b>NOTES:</b> Consult the CORDON Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + PUMA* 120 SUPER</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
PUMA* 120 SUPER	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
<b>No adjuvant required</b>	

<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Puma* 120 Super, while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.
<b>WEEDS CONTROLLED</b>
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as green foxtail, yellow foxtail, barnyard grass and wild oats.
<b>NOTES:</b> Consult the Puma* 120 Super label for additional information on appropriate weed staging, application instructions, environmental and use precautions.

<b>MPOWER R + COUGAR 120 EC Herbicide + MCPA Ester 500</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
COUGAR 120 EC Herbicide	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
MCPA Ester 500	560 mL/hectare for volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield canola)(2-4 leaf stage). 840 mL/hectare for weeds controlled by MCPA Ester 500 at this rate.
<b>No adjuvant required</b>	
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then COUGAR 120 EC Herbicide, then MCPA Ester 500 while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone: green foxtail, yellow foxtail, barnyard grass and wild oats as well as weeds controlled by MCPA Ester 500 at 840 mL/hectare or volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield* canola)(2-4 leaf stage) when MCPA Ester 500 is applied at 560 mL/hectare.	
<b>NOTES:</b> Consult the MCPA Ester 500 and COUGAR 120 EC Herbicide labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + CORDON Herbicide + MCPA Ester 500</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
CORDON Herbicide	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
MCPA Ester 500	560 mL/hectare for volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield canola)(2-4 leaf stage). 840 mL/hectare for weeds controlled by MCPA Ester 500 at this rate.
<b>No adjuvant required</b>	

<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then CORDON Herbicide, then MCPA Ester 500 while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.
<b>WEEDS CONTROLLED</b>
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone: green foxtail, yellow foxtail, barnyard grass and wild oats as well as weeds controlled by MCPA Ester 500 at 840 mL/hectare or volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield* canola)(2-4 leaf stage) when MCPA Ester 500 is applied at 560 mL/hectare.
<b>NOTES:</b> Consult the MCPA Ester 500 and CORDON Herbicide labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.

<b>MPOWER R + PUMA* 120 SUPER + MCPA Ester 500</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 1 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>PUMA* 120 SUPER</b>	385 mL/hectare for green foxtail only 770mL/hectare for wild oats, green foxtail, yellow foxtail and barnyard grass
<b>MCPA Ester 500</b>	560 mL/hectare for volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield canola)(2-4 leaf stage). 840 mL/hectare for weeds controlled by MCPA Ester 500 at this rate.
<b>No adjuvant required</b>	
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Puma* 120 Super, then MCPA Ester 500 while maintaining agitation. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone: green foxtail, yellow foxtail, barnyard grass and wild oats as well as weeds controlled by MCPA Ester 500 at 840 mL/hectare or volunteer imazamox and imazethapyr tolerant canola(e.g., Clearfield* canola)(2-4 leaf stage) when MCPA Ester 500 is applied at 560 mL/hectare.	
<b>NOTES:</b> Consult the MCPA Ester 500 and Puma* 120 Super labels for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

<b>MPOWER R + ACCORD*</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley(grown for feed purposes only) <b>NOT UNDERSEEDED TO FORAGES</b>	
<b>TIMING:</b> Post-emergent application from 2 to 5-leaf growth stage of the crop. See below for weed staging.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>ACCORD*</b>	135 grams/hectare for most weeds listed below 165 grams/hectare for green foxtail 67 grams/hectare for cleavers and annual sowthistle
Adjuvant: MERGE* only	10 litres/1000 litres of spray solution (1.0% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Accord* then Merge* adjuvant. <b>DO NOT USE ADDITIONAL NON-IONIC SURFACTANT.</b> Refer to MIXING DIRECTIONS section for general	

instructions.

**WEEDS CONTROLLED**

Broadleaf weeds controlled or suppressed by **MPOWER R** alone, as well as:  
green foxtail.....1-5 leaf , 2 tillers

barnyard grass	1-5 leaf
volunteer flax	1-8 cm
cleavers	1-4 whorls

**NOTES:** Do not apply this tank mixture more often than once every 2 years. Do not graze the treated crops or cut for hay within 77 days of application. Consult the Accord\* label for rotational cropping restrictions, application instructions, use precautions and other restrictions. Refer to the Accord\* label for additional information on appropriate weed staging at application. Thorough coverage of foliage is important for consistent weed control.

**MPOWER R + ACCORD\* + COUGAR 120 EC Herbicide**

**LOCATION:** For use in the prairie provinces and Peace River Region of British Columbia only.

**CROP(S):** spring wheat (including durum) and spring barley(grown for feed purposes only) **NOT UNDERSEEDED TO FORAGES**

**TIMING:** Post-emergent application from 2 to 5-leaf growth stage of spring and durum wheat or to barley at the 2 to 4-leaf stage. See below for weed staging.

**TANK MIX COMPONENTS AND APPLICATION RATES**

<b>MPOWER R</b>	20 grams/hectare
<b>ACCORD*</b>	67 grams/hectare for cleavers only
<b>COUGAR 120 EC Herbicide</b>	0.77 litres per hectare

**MIXING:** Mixing order is **MPOWER R** then Accord\* then COUGAR 120 EC Herbicide. Merge adjuvant is NOT required in this tank mixture. Refer to MIXING DIRECTIONS section for general instructions.

**WEEDS CONTROLLED**

Broadleaf weeds controlled or suppressed by **MPOWER R** alone, as well as: Wild oats, green foxtail, barnyard grass – 1 - 6-leaf stage up to emergence of third tiller Cleavers 1-4 whorls

**NOTES:** Do not apply this tank mixture more often than once every 2 years. Do not graze the treated crops or cut for hay within 77 days (spring wheat, durum ) or 80 days (spring barley) of application. Consult the Accord\* label for rotational cropping restrictions, application instructions, use precautions and other restrictions. Refer to the Accord\* and COUGAR 120 EC Herbicide labels for additional information on appropriate weed staging at application. Thorough coverage of foliage is important for consistent weed control.

**MPOWER R + ACCORD\* + CORDON Herbicide**

**LOCATION:** For use in the prairie provinces and Peace River Region of British Columbia only.

**CROP(S):** spring wheat (including durum) and spring barley(grown for feed purposes only) **NOT UNDERSEEDED TO FORAGES**

**TIMING:** Post-emergent application from 2 to 5-leaf growth stage of spring and durum wheat or to barley at the 2 to 4-leaf stage. See below for weed staging.

**TANK MIX COMPONENTS AND APPLICATION RATES**

<b>MPOWER R</b>	20 grams/hectare
<b>ACCORD*</b>	67 grams/hectare for cleavers only
<b>CORDON Herbicide</b>	0.77 litres per hectare

**MIXING:** Mixing order is **MPOWER R** then Accord\* then CORDON Herbicide. Merge adjuvant is NOT required in this tank mixture. Refer to MIXING DIRECTIONS section for general instructions.

**WEEDS CONTROLLED**

Broadleaf weeds controlled or suppressed by **MPOWER R** alone, as well as: Wild oats, green foxtail, barnyard grass – 1 - 6-leaf stage up to emergence of third tiller Cleavers 1-4 whorls

**NOTES:** Do not apply this tank mixture more often than once every 2 years. Do not graze the

treated crops or cut for hay within 77 days (spring wheat, durum ) or 80 days (spring barley) of application. Consult the Accord\* label for rotational cropping restrictions, application instructions, use precautions and other restrictions. Refer to the Accord\* and CORDON Herbicide labels for additional information on appropriate weed staging at application. Thorough coverage of foliage is important for consistent weed control.

<b>MPOWER R + ACCORD* + Puma* 120 Super</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) and spring barley(grown for feed purposes only) <b>NOT UNDERSEED TO FORAGES</b>	
<b>TIMING:</b> Post-emergent application from 2 to 5-leaf growth stage of spring and durum wheat or to barley at the 2 to 4-leaf stage. See below for weed staging.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>ACCORD*</b>	67 grams/hectare for cleavers only
<b>Puma* 120 Super</b>	0.77 litres per hectare
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Accord* then Puma* 120 Super. Merge adjuvant is NOT required in this tank mixture. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as: Wild oats, green foxtail, barnyard grass – 1 - 6-leaf stage up to emergence of third tiller Cleavers 1-4 whorls	
<b>NOTES:</b> Do not apply this tank mixture more often than once every 2 years. Do not graze the treated crops or cut for hay within 77 days (spring wheat, durum) or 80 days (spring barley) of application. Consult the Accord* label for rotational cropping restrictions, application instructions, use precautions and other restrictions. Refer to the Accord* and Puma* 120 Super labels for additional information on appropriate weed staging at application. Thorough coverage of foliage is important for consistent weed control.	



<b>MPOWER R + Nufarm Fluroxypyr Herbicide+ 2,4-D Ester 700</b>		
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.		
<b>CROP(S):</b> spring wheat (including durum wheat) and spring barley <b>not underseeded to legumes</b>		
<b>TIMING:</b> Post-emergent application from the 4-leaf to flag-leaf stage of spring wheat (including durum) or spring barley and seedling stage to 4-leaf/whorls of weed.		
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>		
<b>MPOWER R</b>		20 grams/hectare
	Nufarm Fluroxypyr Herbicide	0.30 L/ha
	2,4-D Ester 700	0.42 L/ha
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT* PLUS or LIBERATE		2L/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Nufarm Fluroxypyr Herbicide then 2,4-D Ester 700, then surfactant. Refer to MIXING DIRECTIONS section for general instructions. Use a spray volume of 100 L/ha.		
<b>WEEDS CONTROLLED</b>		
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as cleavers (excluding Group 2 resistant cleavers).		
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days prior to slaughter. Do not harvest the treated mature crop within 60 days after application. Consult the Attain* Herbicide Tank Mix labels for additional application instructions and use precautions.		

<b>MPOWER R + ATTAIN™ HERBICIDE TANK MIX</b>		
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.		
<b>CROP(S):</b> spring wheat (including durum) and spring barley <b>not underseeded to legumes</b>		
<b>TIMING:</b> Post-emergent application from the 4-leaf to flag-leaf stage of spring wheat (including durum) or spring barley and seedling stage to 4-leaf/whorls of weed.		
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>		
<b>MPOWER R</b>		20 grams/hectare
Attain* Herbicide Tank Mix	ATTAIN* A (fluroxypyr)	Attain* A - 0.30 L/ha
	ATTAIN* B (2,4-D Ester)	Attain* B - 0.50 L/ha
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT* PLUS or LIBERATE		2L/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Attain* A, then Attain* B then surfactant. Refer to MIXING DIRECTIONS section for general instructions. Use a spray volume of 100 L/ha.		
<b>WEEDS CONTROLLED</b>		
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as cleavers (excluding Group 2 resistant cleavers).		
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days prior to slaughter. Do not harvest the treated mature crop within 60 days after application. Consult the Attain* Herbicide Tank Mix labels for additional application instructions and use precautions.		

## **SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY**

<b>MPOWER R + BANVEL* II Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) and spring barley only, <b>not underseeded to forages</b>	
<b>TIMING:</b> Post-emergent application from the 2-5 leaf stage of spring wheat or spring barley and seedling stage to 8 leaf stage of kochia.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
Banvel* II Herbicide	0.110 litres/hectare
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Banvel* II Herbicide then adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as kochia (including Group 2 resistant kochia).	
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Consult the Banvel* II Herbicide label for additional application instructions and use precautions.	

<b>MPOWER R + CURTAIL* M</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from the full 3-leaf growth stage of spring wheat or spring barley.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>CURTAIL* M</b>	1.5 litres/hectare
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Curtail* M, while maintaining agitation, then adjuvant, to the tank. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as Canada thistle <sup>1</sup> and wild buckwheat <sup>2</sup> .	
<b>Notes</b>	
<sup>1</sup> Apply when the majority of thistles have emerged and are actively growing. For best control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of thistles. Later emerging thistles will not be controlled.	
<sup>2</sup> Apply to actively growing wild buckwheat in the cotyledon to 5-leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.	
<b>NOTES:</b> Consult the Curtail* M label for additional application instructions and use precautions.	

<b>MPOWER R + LONTREL* 360</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> Spring wheat (excluding durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from the full 3-leaf to the flag leaf growth stage of spring wheat or spring barley.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>LONTREL* 360</b>	0.21 litres/hectare
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Lontrel* 360, to the tank while maintaining agitation, then adjuvant. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as Canada thistle <sup>1</sup> (seasonal control) and wild buckwheat <sup>2</sup> .	
<b>Notes</b>	
<sup>1</sup> Apply when the majority of thistles have emerged and are actively growing. For best control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of thistles. Later emerging thistles will not be controlled.	
<sup>2</sup> Apply to actively growing wild buckwheat in the cotyledon to 5-leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.	
<b>NOTES:</b> Consult the Lontrel* 360 label for additional application instructions and use precautions.	

<b>MPOWER R + LONTREL* 360 + 2,4-D ESTER or MCPA ESTER</b>	
<b>LOCATION:</b> Western Canada only.	
<b>CROP(S):</b> spring wheat (excluding durum) and spring barley only	
<b>TIMING:</b> Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
<b>LONTREL* 360</b>	0.21 litres/hectare
Choose one of the following: 1) MCPA Ester (500 g/L) 2) 2,4-D Ester (600 g/L)	0.84 litres/hectare 0.7 litres/hectare
Adjuvants: AGRAL* 90, AG-SURF*, CITOWETT* PLUS or LIBERATE	2 litres/1000 litres of spray solution
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> first in fresh water, then Lontrel* 360 then 2,4-D Ester or MCPA Ester then adjuvant. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
All other weeds controlled by <b>MPOWER R</b> alone, as well as Canada thistle <sup>1</sup> , lady's thumb, perennial sow thistle, stinkweed, volunteer canola, wild buckwheat and wild mustard.	
<b>Notes</b>	
<sup>1</sup> Provides seasonal control of Canada thistle.	
<b>WEEDS SUPPRESSED</b>	
All other weeds suppressed by <b>MPOWER R</b> alone, as well as cleavers.	
<b>NOTES:</b> Consult the Lontrel* 360 and MCPA Ester or 2,4-D Ester labels for additional application instructions, use Precautions and other label restrictions.	

## **SPRING WHEAT (INCLUDING DURUM)**

<b>MPOWER R + BULLWHIP 240 EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 2-leaf to flag leaf growth stage of the crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
BULLWHIP 240EC Herbicide	230 mL/hectare for wild oats 290 mL/hectare for wild oats and green foxtail
Adjuvant: XA Oil Concentrate	800 mL/hectare for low rate of Bullwhip 240EC 1.0 litre/hectare for high rate of Bullwhip 240EC
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then BULLWHIP 240 EC Herbicide then XA Oil Concentrate. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as wild oats and green foxtail.	
<b>NOTES:</b> Consult the BULLWHIP 240 EC Herbicide label for application instructions and use precautions.	

<b>MPOWER R + SIGNAL Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 2-leaf to flag leaf growth stage of the crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
SIGNAL Herbicide	230 mL/hectare for wild oats 290 mL/hectare for wild oats and green foxtail
Nufarm Enhance Adjuvant	2.5/1000 L (0.25% v/v) for low rate of SIGNAL Herbicide 3.2 L/1000 L (0.32% v/v) for high rate of SIGNAL Herbicide
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then SIGNAL Herbicide then Nufarm Enhance Adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as wild oats and green foxtail.	
<b>NOTES:</b> Consult the SIGNAL Herbicide label for application instructions and use precautions.	

<b>MPOWER R + HORIZON* 240 EC HERBICIDE TANK MIX</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 2-leaf to flag leaf growth stage of the crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
HORIZON* 240 EC	230 mL/hectare for wild oats 290 mL/hectare for wild oats and green foxtail
Adjuvant: SCORE* only	800 mL/hectare for low rate of Horizon* 240 EC 1.0 litre/hectare for high rate of Horizon* 240 EC
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Horizon* 240 EC then Score* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for	

general instructions.
<b>WEEDS CONTROLLED</b>
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as wild oats and green foxtail.
<b>NOTES:</b> Consult the Horizon* 240 EC HERBICIDE TANK MIX label for application instructions and use precautions.

<b>MPOWER R + MCPA ESTER 500 + BULLWHIP 240EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 3-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
MCPA ESTER 500	0.84-1.1 litres/hectare or 0.56 litres/hectare
BULLWHIP 240EC Herbicide	230 mL/hectare
Adjuvant: XA Oil Concentrate	8 litres/1000 litres of spray solution (0.8% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then BULLWHIP 240EC Herbicide, then MCPA Ester 500 then XA Oil Concentrate . DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Green foxtail <sup>1</sup> Wild oats	
<b>PLUS</b> broadleaf weeds controlled or suppressed by <b>MPOWER R</b> and broadleaf weeds controlled by MCPA Ester 500 at 0.84-1.1 L per hectare or volunteer imazamox and imazethapyr tolerant canola (e.g. Clearfield* canola) (2-4 leaf stage) when MCPA is applied at 0.56 L per hectare.	
<b>Notes</b>	
<sup>1</sup> A reduction in control of green foxtail may be observed with the tankmix of <b>MPOWER R + MCPA Ester 500 + BULLWHIP 240EC Herbicide</b> .	
<b>NOTES:</b> Consult the MCPA Ester 500 and BULLWHIP 240EC label for application instructions and use precautions.	

<b>MPOWER R + MCPA ESTER 500 + SIGNAL Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 3-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
MCPA ESTER 500	0.84-1.1 litres/hectare or 0.56 litres/hectare
SIGNAL Herbicide	230 mL/hectare
Nufarm Enhance Adjuvant	2.5 litres/1000 litres of spray solution (0.25% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then SIGNAL Herbicide then MCPA Ester 500 then Nufarm Enhance Adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Green foxtail <sup>1</sup> Wild oats	
<b>PLUS</b> broadleaf weeds controlled or suppressed by <b>MPOWER R</b> and broadleaf weeds controlled by MCPA Ester 500 at 0.84-1.1 L per hectare or volunteer imazamox and imazethapyr tolerant canola (e.g. Clearfield* canola) (2-4 leaf stage) when MCPA is applied at 0.56 L per hectare.	
<b>Notes</b>	
<sup>1</sup> A reduction in control of green foxtail may be observed with the tankmix of <b>MPOWER R + MCPA Ester 500 + SIGNAL Herbicide</b> .	
<b>NOTES:</b> Consult the MCPA Ester 500 and SIGNAL Herbicide label for application instructions and use precautions.	

<b>MPOWER R + MCPA ESTER 500 + HORIZON* 240 EC HERBICIDE TANK MIX</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Post-emergent application from 3-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
MCPA ESTER 500	0.84-1.1 litres/hectare or 0.56 litres/hectare
HORIZON* 240 EC	230 mL/hectare
Adjuvant: SCORE* only	8 litres/1000 litres of spray solution (0.8% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Horizon* 240 EC then MCPA Ester 500 then Score* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Green foxtail <sup>1</sup> Wild oats	
<b>PLUS</b> broadleaf weeds controlled or suppressed by <b>MPOWER R</b> and broadleaf weeds controlled by MCPA Ester 500 at 0.84-1.1 L per hectare or volunteer imazamox and imazethapyr tolerant canola (e.g. Clearfield* canola) (2-4 leaf stage) when MCPA is applied at 0.56 L per hectare.	
<b>Notes</b>	
<sup>1</sup> A reduction in control of green foxtail may be observed with the tankmix of <b>MPOWER R +</b>	

MCPA Ester 500 + Horizon* 240 EC HERBICIDE TANK MIX.
<b>NOTES:</b> Consult the MCPA Ester 500 and Horizon* 240 EC HERBICIDE TANK MIX label for application instructions and use precautions.

<b>MPOWER R + ACCORD* + BULLWHIP 240EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Make application from 2 to 5-leaf leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller. Thorough coverage of foliage is important for consistent weed control.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
ACCORD* Herbicide	67 grams/hectare
BULLWHIP 240EC Herbicide	230 mL/hectare
Adjuvant: XA Oil Concentrate	8 litres/1000 litres of spray solution (0.8% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Accord then Bullwhip 240EC Herbicide then XA Oil Concentrate. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> , wild oats, green foxtail, and cleavers (1-4 whorl).	
<b>NOTES:</b> Prior to use, consult the Accord* label for additional rotational cropping restrictions, application instructions, use precautions, and other restrictions. Do not graze treated crops or cut for hay within 77 days of application.	

<b>MPOWER R + ACCORD* + SIGNAL Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Make application from 2 to 5-leaf leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller. Thorough coverage of foliage is important for consistent weed control.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
ACCORD* Herbicide	67 grams/hectare
SIGNAL Herbicide	230 mL/hectare
Nufarm Enhance Adjuvant	2.5 litres/1000 litres of spray solution (0.25% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Accord then SIGNAL Herbicide then Nufarm Enhance Adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> , wild oats, green foxtail, and cleavers (1-4 whorl).	
<b>NOTES:</b> Prior to use, consult the Accord* label for additional rotational cropping restrictions, application instructions, use precautions, and other restrictions. Do not graze treated crops or cut for hay within 77 days of application.	

<b>MPOWER R + ACCORD* + HORIZON* 240 EC HERBICIDE TANK MIX</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (including durum) only	
<b>TIMING:</b> Make application from 2 to 5-leaf leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 <sup>th</sup> tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 <sup>rd</sup> tiller. Thorough coverage of foliage is important for consistent weed control.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
ACCORD* Herbicide	67 grams/hectare
HORIZON* 240 EC	230 mL/hectare
Adjuvant: SCORE* only	8 litres/1000 litres of spray solution (0.8% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Accord then Horizon* 240 EC then Score* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> , wild oats, green foxtail, and cleavers (1-4 whorl).	
<b>NOTES:</b> Prior to use, consult the Accord* label for additional rotational cropping restrictions, application instructions, use precautions, and other restrictions. Do not graze treated crops or cut for hay within 77 days of application.	

### **SPRING WHEAT (EXCLUDING DURUM)**

<b>MPOWER R + ACCORD* + AVENGE* 200-C</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) only <b>NOT UNDERSEED TO FORAGES</b>	
<b>TIMING:</b> Post-emergent application from 2 to 5-leaf growth stage of the crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
ACCORD*	135 grams/hectare for most weeds listed below 165 grams/hectare for green foxtail
AVENGE* 200-C	3.5 litres/hectare
Adjuvant: MERGE* only	10 litres/1000 litres of spray solution (1.0% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> , then Accord*, then Avenge* 200-C while maintaining agitation, then MERGE* adjuvant. DO NOT USE ADDITIONAL NONIONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Weeds controlled or suppressed by <b>MPOWER R</b> alone and the <b>MPOWER R + Accord*</b> tank mix, as well as wild oats at populations between 1 and 200 plants per square meter.	
<b>NOTES:</b> Do not apply this tank mixture more often than once every 2 years. Do not graze treated crops or cut for hay within 77 days of application. Consult the Accord* label for rotational cropping restrictions, application instructions, use precautions and other restrictions. Refer to the Accord* and Avenge* 200-C labels for additional information on appropriate weed staging and populations at application. Thorough coverage of foliage is important for consistent weed control. Avenge* 200-C can cause some crop injury. Always refer to the Accord* and Avenge* 200-C labels for additional application instructions, use precautions and restrictions.	



<b>MPOWER R + BULLWHIP 240EC Herbicide + BANVEL* II Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) only, <b>not underseeded to legumes</b>	
<b>TIMING:</b> Post-emergent application from the 2-5 leaf stage of spring wheat and seedling stage to 8-leaf stage of kochia.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
BULLWHIP 240EC Herbicide	0.230 L/Ha
Banvel* II Herbicide	0.110 L/Ha
Adjuvant: XA Oil Concentrate	0.8 L/Ha
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Banvel II Herbicide then BULLWHIP 240EC Herbicide then XA Oil Concentrate. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as kochia (including Group 2 resistant kochia), green foxtail and wild oats.	
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Consult the Banvel* II Herbicide and BULLWHIP 240EC Herbicide labels for additional application instructions and use precautions.	

<b>MPOWER R + SIGNAL Herbicide + BANVEL* II Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) only, <b>not underseeded to legumes</b>	
<b>TIMING:</b> Post-emergent application from the 2-5 leaf stage of spring wheat and seedling stage to 8-leaf stage of kochia.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
SIGNAL Herbicide	0.230 L/Ha
Banvel* II Herbicide	0.110 L/Ha
Nufarm Enhance Adjuvant	2.5/1000 L of spray solution (0.25% v/v)
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Banvel II Herbicide then SIGNAL Herbicide then Nufarm Enhance Adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as kochia (including Group 2 resistant kochia), green foxtail and wild oats.	
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Consult the Banvel* II Herbicide and SIGNAL Herbicide labels for additional application instructions and use precautions.	

<b>MPOWER R + HORIZON* 240 EC Herbicide Tank Mix + BANVEL* II Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.	
<b>CROP(S):</b> spring wheat (excluding durum) only, <b>not underseeded to legumes</b>	
<b>TIMING:</b> Post-emergent application from the 2-5 leaf stage of spring wheat and seedling stage to 8-leaf stage of kochia.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
<b>MPOWER R</b>	20 grams/hectare
HORIZON* 240 EC	0.230 L/Ha
Banvel* II Herbicide	0.110 L/Ha
Adjuvant: SCORE*	0.8 L/Ha
<b>MIXING:</b> Mixing order is <b>MPOWER R</b> then Banvel II Herbicide then Horizon 240EC then Score.	

Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.
<b>WEEDS CONTROLLED</b>
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as kochia (including Group 2 resistant kochia), green foxtail and wild oats.
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application. Consult the Banvel* II Herbicide and Horizon* 240 EC Herbicide Tank Mix labels for additional application instructions and use precautions.

<b>MPOWER R + 2,4-D AMINE or ESTER + EVEREST* SOLUPAK* 70 DF or EVEREST* 70 DF</b>								
<b>LOCATION:</b> For use in the prairie provinces and Peace River Region of British Columbia only.								
<b>CROP(S):</b> spring wheat (excluding durum) only <b>NOT UNDERSEEDED TO LEGUMES</b>								
<b>TIMING:</b> Post-emergent application from 1 to 6-leaf (1 to 4 leaves on main stem, plus 2 tillers) growth stage of the crop. For wild oats and green foxtail, apply from 1 to 6-leaf (1 to 4 leaves on main stem, plus 2 tillers)								
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>								
	<b>Component 1</b>		<b>Component 2</b>		<b>Component 3</b>		<b>Component 4</b>	
MPOWER R	20 g/ha	Everest* 70 DF	43 g/ha			Agral*90 or Agsurf*	0.25% v/v	
MPOWER R	20 g/ha	Everest* 70 DF or Everest Solupak 70 DF	43 g/ha	2,4-D Amine or Ester	Up to 560 g ae/ha	Agral*90 or Agsurf*	0.25% v/v	
<b>MIXING:</b> Mixing order is Everest* Solupak 70 DF or Everest* 70 DF then <b>MPOWER R</b> then 2,4-D Amine or Ester then adjuvant. Refer to MIXING DIRECTIONS section for general instructions.								
<b>WEEDS CONTROLLED</b>								
Broadleaf weeds controlled or suppressed by <b>MPOWER R</b> alone, as well as green foxtail and wild oats.								
<b>NOTES:</b> Observe minimum interval to harvest of 80 days after treatment. For black, dark brown and gray-wooded soil zones only, field peas may be grown the year following Everest* Solupak* application in fields where precipitation has been normal or above normal (10 year average) during the growing season, and where organic matter content is above 4% and pH below 7.5. Re-crop spring wheat only in brown soil zone. Consult the 2,4-D Amine or Ester and Everest* Solupak* 70 DF or Everest* 70 DF labels for additional information on rotational cropping restrictions, application instructions, use precautions and other restrictions.								

**MINOR USES:**

**SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION**

**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 AgraCity Crop & Nutrition Ltd. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. AgraCity Crop & Nutrition Ltd. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the User assumes all risks related to performance and crop tolerance arising, and agrees to hold AgraCity Crop & Nutrition Ltd. harmless from any claims based on efficacy or phytotoxicity in connection with the use described below.

**SEEDLING AND ESTABLISHED GRASS SPECIES FOR FORAGE AND SEED PRODUCTION**

For broadleaf weed control, apply 20 grams of **MPOWER R** per hectare with AGRAL\* 90, AG-SURF\*, CITOWETT\* PLUS or LIBERATE at 2.0 litres per 1,000 litres of spray solution. (See "Mixing Instructions" section of the label).

Apply postemergence to the following Seedling or Established Grasses for Forage or Seed Production:

Meadow Bromegrass	Pubescent Wheatgrass
Smooth Bromegrass	
Tall Wheatgrass	Creeping Red Fescue
Slender Wheatgrass	
Tall Fescue	Streambank Wheatgrass
Orchard Grass	Northern Wheatgrass
Crested Wheatgrass	Western Wheatgrass
	Intermediate Wheatgrass

Apply postemergence to the following Established Grasses for Forage or Seed Production:

Kentucky Bluegrass

**MPOWER R** will control the broadleaf weeds listed on the label for **MPOWER R** alone. For best results apply to emerged, young, actively-growing weeds that are less than 10 cm tall or across. Thorough coverage of target weeds is essential. Apply with ground equipment only. Make only one application per growing season. The above grasses may not be grazed by or fed to livestock within 7 days of application. Please refer to the appropriate sections of this label for additional use precautions, application and/or mixing instructions.

## MIXING INFORMATION

### Mixing Precautions:

Do not allow the spray mixture to remain in the tank for more than 24 hours before spraying or the effectiveness may be reduced. If the spray mixture has been allowed to stand in the tank, use vigorous agitation to thoroughly disperse before resuming spraying.

Use the spray preparation of **MPOWER R** within 24 hours or product degradation may occur. Use spray preparation containing ASSERT\* within 12 hours or product degradation may occur. If spray solution is left standing without agitation, thoroughly agitate and re-suspend any settled **MPOWER R** before resuming the spraying operation.

NOTE: Do not mix **MPOWER R** with liquid fertilizers, substances that contain boron or substances that release free chlorine. Mixing **MPOWER R** with any of these compounds will result in an insoluble substance in the tank.

### Mixing Directions:

Select a spray volume that will ensure thorough coverage and a uniform spray pattern. Use a minimum of 55 L of spray volume per hectare. If tank mixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.

1. Fill the spray tank  $\frac{1}{4}$  to  $\frac{1}{3}$  full with fresh water.
2. Add the required amount of **MPOWER R** to the spray tank while the agitator is running. Continuous agitation is recommended through the entire mixing procedure to ensure products are completely dissolved and/or in suspension.
3. After **MPOWER R** has been fully dissolved and is in suspension, other tank mix components may be added while continuing to fill the tank with water. The proper sequence for tank mix components is:
  - a. dry formulations
  - b. emulsifiable concentrates
  - c. adjuvants (recommended adjuvant must be added to improve wetting and contact activity)
  - d. If a drift control agent is to be tank mixed, it is to be added first.
4. Refer to specific tank mixes in the DIRECTIONS FOR USE section of this label for mixing order and other mixing instructions.

For repeat loads, reduce the tank heel to 10% or less of the previous load. Fill tank with fresh water as described in step 1, and continue as directed. Emulsifiable concentrates may make dispersion of **MPOWER R** more difficult. For that reason, tank heels of the previous tank mix should be kept to 10% or less of the spray tank volume.

## EQUIPMENT CLEANING INFORMATION

### Cleaning Precautions:

CAUTION: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour, which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR DESIRABLE VEGETATION.

### Cleaning Instructions:

To avoid subsequent injury to crops other than wheat, spring barley or oats, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of **MPOWER R** from mixing and spray equipment as follows:

1. Empty the tank and drain the sump completely. Remove any contamination on the outside of the spraying equipment by washing with clean water.
2. Spray the interior tank walls (including the lid) with clean water using a minimum volume of 10% of the tank volume. Add household ammonia (containing a minimum 3% ammonia) at a solution rate of 1 L/100 L water or ALLCLEAN Cleaner (or other similarly approved cleaner) to the tank. Circulate the water through the lines, including all by-pass lines, for at least two minutes. Flush the boom well and empty the sprayer. Completely drain the sump.
3. Repeat step 2. For this rinse, the addition of household ammonia or other cleaner is not required.
4. Remove the strainers, nozzles, tips and screens and clean separately in a bucket containing water and ammonia solution.

If only ammonia is used as a cleaner, the rinsate solution may be applied to the crop(s) listed on this label. Do not exceed the maximum-labeled use rate. If other cleaners are used consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, **MPOWER R** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **MPOWER R** and other Group 2 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 R** or other Group 2 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 AgraCity Crop & Nutrition Ltd. at 1-877-362-3276 for further information.

### **STORAGE:**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

### **DISPOSAL:**

1. Make the empty container unsuitable for further use.
2. Dispose of the container in accordance with provincial requirements.
3. For information on the 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.

**NOTICE TO USER:**

This 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.

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