

2019-0723  
2019-06-21

Container Label

GROUP	2	HERBICIDE
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## MPOWER Extra Herbicide

DRY FLOWABLE 75%

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA AS A PRE-SEEDING HERBICIDE ON FIELDS TO BE PLANTED TO WHEAT (SPRING AND DURUM) AND BARLEY, AND FOR WEED CONTROL IN SUMMERFALLOW, ONLY

Contains the allergen sulfites and milk

COMMERCIAL

READ THE LABEL AND ENCLOSED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** TRIBENURON METHYL 75%

REGISTRATION NO.: 33143 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 5 g – 1.28 kg

WARNING - EYE IRRITANT  
- POTENTIAL SKIN SENSITIZER

**NewAgco, Inc.**  
320 - 22<sup>nd</sup> Street East  
Saskatoon (Sask.) S7K 0H1 Canada  
1-844-269-3276

Distributed by:  
**AgraCity Crop & Nutrition Ltd.**  
320 – 22<sup>nd</sup> Street East  
Saskatoon (Sask.) S7K 0H1 Canada  
1-844-269-3276

### PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN.**
- WARNING: EYE IRRITANT
- POTENTIAL SKIN SENSITIZER
- DO NOT APPLY BY AIR
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
- AVOID BREATHING SPRAY MIST OR VAPOURS. USE WITH ADEQUATE VENTILATION.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
- DO NOT CONTAMINATE ANY BODY OF WATER.
- WEAR SUITABLE CHEMICAL RESISTANT GLOVES AND GOGGLES OR FACE SHIELD DURING MIXING AND LOADING.
- MAY IRRITATE SKIN AND EYES. WHEN USING, DO NOT EAT, DRINK OR SMOKE.
- WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE.
- WASH THOROUGHLY WITH SOAP AND WATER AFTER USE.

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- **DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS FOR 12 HOURS FOLLOWING APPLICATION**

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 1-613-996-6666 (collect).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**STORAGE:**

Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. Not for use or storage in or around the home. Keep container tightly 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 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 any way that is inconsistent with the directions on the label.

MPOWER Extra is a Trade Mark of NewAgco Inc.

\*All other products mentioned are trademarks of their respective companies.

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Booklet

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**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**IMPORTANT INFORMATION - READ BEFORE USING**

Injury to or loss of desirable trees, shrubs, flowers, vegetables, fruits or other 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, tennis courts, 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 crops.

**DO NOT APPLY BY AIR.**

Do not apply in high winds.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, durum or barley. Thoroughly clean all traces of tank mix from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Wash away any spray mixture from the outside of spray tank, nozzle or spray rig.

**A MINIMUM RECROPPING INTERVAL OF 2 MONTHS SHOULD BE LEFT BETWEEN THE APPLICATION OF THIS PRODUCT AND SEEDING OF THE NEXT CROP.** After 2 months, the following crops can be seeded: canola, flax, lentils, alfalfa.

**DO NOT APPLY MPOWER EXTRA HERBICIDE WITH A CARRIER OTHER THAN WATER OR ANY**

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ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

**ENVIRONMENTAL HAZARDS:**

- **TOXIC** to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

**DIRECTIONS FOR USE**

**GENERAL INFORMATION:**

MPOWER Extra Herbicide provides control of certain broad-leaved weeds as a pre-seeding herbicide on fields to be planted to wheat (including durum) and barley.

Warm, moist growing conditions promote active weed growth and enhance the activity of MPOWER Extra Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. MPOWER Extra Herbicide may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

MPOWER Extra Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after 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.

**Buffer Zones:**

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 (grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrub lands), sensitive freshwater habitats (lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Buffer Zones (meters) Required for the Protection of:		
		Aquatic Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
	Summer fallow, fields to be planted to wheat (spring and durum), barley (only as a pre-seeding herbicide)	0	0	3
Field Sprayer	Wheat and Barley	1	0	4

\* 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

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with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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.

### **FOR WEED CONTROL IN SUMMERFALLOW**

With any summerfallow treatment, allow at least 10 days to elapse between treatment and tillage. Only weeds that have emerged at the time of application will be controlled.

#### **APPLICATION TIMING:**

##### **MPOWER Extra Herbicide + 2,4-D Ester Tank Mix**

Apply MPOWER Extra Herbicide at 10 grams per hectare with 2,4-D ester at 420 grams/ha (0.6 L 2,4-D Ester LV-700).

Apply the tank mix in the spring after emergence, up to the early flowering stage of the target weeds.

#### **WEEDS CONTROLLED:**

Flixweed and Stinkweed (fall rosettes and spring seedlings)

### **CONTROL OF BROADLEAF WEEDS AND GRASSES IN FALLOW AND PRE-SEED TO SPRING WHEAT (INCLUDING DURUM) AND BARLEY.**

With any summerfallow treatment, allow 10 days to elapse between treatment and tillage. Only weeds emerged at time of application will be controlled.

Fields treated with MPOWER Extra Herbicide can be seeded to wheat (spring or durum) or barley a minimum of 24 hours after application.

**Apply MPOWER Extra Herbicide at 10 grams per hectare, tank mixed with one of the following companion herbicides and adjuvant (where required) in a total spray volume of 55-110 L/ha.**

Companion Herbicide	Application Rate	Application Stage	Weeds Controlled	Weeds Suppressed *
Roundup Transorb Roundup Weathermax Roundup Dry Touchdown 600 Touchdown iQ	1.25 L/ha 0.83 L/ha 450 g ae/ha** 1.0 L/ha 1.25 L/ha	Up to 8 cm	Canada fleabane, Common ragweed, Narrow-leaved hawk's beard	

		Up to 15 cm	Dandelion, Downy brome, Flixweed, Giant foxtail, Green foxtail, Hemp nettle, Kochia, Lady's thumb, Lamb's-quarters, Persian darnel, Redroot pigweed, Russian thistle, Stinkweed, Volunteer barley, Volunteer canola (including glyphosate-tolerant varieties), Volunteer flax, Volunteer wheat, Wild mustard, Wild oats	
		Up to 3-leaf Rosette	Wild buckwheat, Cow cockle	Canada thistle
Roundup Original or Roundup Transorb, plus Agral 90	0.75 L/ha 0.35% v/v	Any stage	Volunteer canola (including glyphosate tolerant varieties)	Narrow-leaved hawk's beard
		Seedlings and rosettes (nonflowering)		
		Up to 10 cm	Kochia, Lamb's-quarters,	Redroot pigweed, Russian thistle
		Up to 8 cm	Green foxtail, Lady's thumb, Stinkweed, Volunteer barley, Volunteer wheat, Wild mustard, Wild oats (1-3 leaf) Wild buckwheat (1-3 leaf)	
Roundup Original or Roundup Transorb, plus Agral 90	1.0 L/ha 0.35% v/v	Rosettes (non-flowering)	Dandelion (top growth)	Canada thistle (top growth)

\*Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

\*\* Roundup Dry\* is expressed as rate of active per hectare, rather than rate of product per hectare.

Fields treated with MPOWER Extra Herbicide + Roundup\* or Touchdown\* can be seeded with wheat (spring or durum) or barley a minimum of 24 hours after application.

**MIXING INSTRUCTIONS:**

1. Add one-third of the necessary volume of water to the spray tank.
2. With the agitator running, add the required amount of MPOWER Extra Herbicide.

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3. When MPOWER Extra Herbicide is in suspension, add the required amount of the appropriate tank mix partners.
4. Specific Tank Mix Instructions:

MPOWER Extra Herbicide + 2,4-D Ester: Once MPOWER Extra Herbicide is completely in suspension, add the required amount of 2,4-D Ester while maintaining agitation. Do not add a surfactant.

MPOWER Extra Herbicide + Roundup Original\* or Roundup Transorb\* or Roundup Weathermax\* or Roundup Dry\* or Touchdown\* iQ or Touchdown\* 600: Once MPOWER Extra Herbicide is completely in suspension, add the required amount of Roundup Original\* or Roundup Transorb\* or Roundup Weathermax\* or Roundup Dry\* or Touchdown\* iQ or Touchdown\* 600 as indicated in the APPLICATION RATES AND TIMING tables. Once components are in suspension, if required, add AGRAL\* 90 at 3.5 L per 1000 L of spray solution (0.35% v/v).

5. Add the rest of the water. If an antifoam agent is required, add this last.
6. Use a minimum spray volume of 55 L/ha.
7. For repeat tankloads, reduce the material remaining in the tank to 10% of the original volume or less before proceeding with step 1. If this is not possible, pre-slurry MPOWER Extra Herbicide in a small amount (5-10 L) of water before adding to the tank.

Continuous agitation is required to keep MPOWER Extra Herbicide in suspension. If the spray preparation is left standing without agitation, thoroughly agitate to re-suspend the mixture before spraying. Use spray preparation within 24 hours or product degradation may occur.

#### **MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES:**

A minimum recrop interval of 2 months should be left between the application of this product and seeding of the next crop. The following crops can be seeded two months after application of MPOWER Extra Herbicide + 2,4-D Ester: canola, flax, lentils, and alfalfa.

#### **EQUIPMENT-SPRAY VOLUMES:**

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 filter screens or larger (metal or nylon).

Continuous agitation is required to keep the spray materials in suspension. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles.

#### **SPRAYER CLEANUP:**

It is difficult to remove all traces of 2,4-D Ester from a sprayer. A sprayer used to apply this herbicide should not be used to spray crops sensitive to this herbicide. The following clean-out procedure will remove traces of MPOWER Extra Herbicide from the sprayer.

- 1 Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes to remove all visible residues.
- 2 Fill the tank with clean water then add 1 litre household AMMONIA (containing a minimum of 3% ammonia) per 100 litres of water. Fill boom and hoses with solution and allow sprayer to sit for 15 minutes. Drain. 3 Repeat step 2.
- 4 Nozzles and screens should be removed and cleaned separately. To remove traces of ammonia, rinse the tank, hoses and booms thoroughly with clean water.
- 5 Dispose of tank rinseate according to Provincial directions.



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

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, MPOWER Extra Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to MPOWER Extra Herbicide and other Group 2 herbicides. The resistance 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 Extra Herbicide or other Group 2 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from different groups 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 your local AgraCity Crop & Nutrition Ltd. representative at 1-877-362-3276 for further information

**USE PRECAUTIONS:**

Licensed wheat and barley varieties have shown acceptable tolerance to MPOWER Extra Herbicide. Consult AgraCity Crop & Nutrition Ltd. prior to use on unlicensed varieties for crop tolerance information.

Do not apply to irrigated land where tail water will be used to irrigate other crop land.

Do not contaminate irrigation water.

Use a maximum of 10 grams of MPOWER Extra Herbicide per hectare per year.

Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.

Do not apply to fields to be planted to spring wheat, durum wheat or barley undersown with legumes or grasses as injury to the forage may result.

MPOWER Extra Herbicide applied to fields to be planted to spring wheat, durum wheat or barley that is stressed by severe conditions such as drought, low fertility, saline soils, waterlogged soils (soils 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, grade or yield loss.

Do not remove soil from treated fields for use on lawns, in gardens or for backfill.

Under certain conditions such as prolonged cool weather temperature or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

OVERSPRAY OR DRIFT TO IMPORTANT WILDLIFE HABITATS SUCH AS SHELTERBELTS,

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WETLANDS, SLOUGHS OR DRY SLOUGH BORDERS, OR WOODLOTS, SHOULD BE AVOIDED. LEAVE A 15 METER BUFFER ZONE BETWEEN THE LAST SPRAY SWATH AND THE EDGE OF ANY OF THESE HABITATS.

Control of weeds growing in wheel tracks may be reduced when MPOWER Extra Herbicide is applied under dry, dusty conditions.

**STORAGE:**

Store products in original containers only, away from fertilizer, seeds, food or feed. Not for use or storage in or around the home. Keep container closed..

**DISPOSAL:**

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