Container label

MPOWER CLETHODIM HERBICIDE

GROUP 1 HERBICIDE

POST-EMERGENCE HERBICIDE FOR CONTROL OF GRASSES IN CANOLA (including imazethapyr-tolerant varieties), FLAX (including low linolenic acid varieties), FIELD PEAS, LENTILS, DESI and KABULI CHICKPEAS, DRY ONIONS, POTATOES, MUSTARD (oriental, brown, yellow) (condiment type only), SOYBEANS, SEEDLING ALFALFA, SUNFLOWERS, and DRY BEANS (Pinto, Black, Great Northern, Red, Pink and Navy)

AGRICULTURAL

EMULSIFIABLE CONCENTRATE

ACTIVE INGREDIENT: CLETHODIM 240 g/L

REGISTRATION NO. 32614 PEST CONTROL PRODUCTS ACT

WARNING: EYE AND SKIN IRRITANT

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND BOOKLET BEFORE USING

NET CONTENTS: 2-1050 LITRES

Distributed by:

NewAgco Inc. AgraCity Crop & Nutrition Ltd.

320 – 22nd Street East Saskatoon, SK S7K 0H1 Saskatoon, SK S7K 0H1

Canada Canada

1-844-269-3276 1-844-269-3276

GENERAL INFORMATION:

MPOWER CLETHODIM Herbicide is a selective post-emergence herbicide for control of a broad range of grasses in canola (including imazethapyr-tolerant varieties), flax (including low linolenic acid varieties), field peas, lentils, Desi and Kabuli chickpeas, dry onions, potatoes, mustard (oriental, brown, yellow)(condiment type only), soybeans, seedling alfalfa, sunflowers and dry beans (Pinto, Black, Great Northern, Red, Pink and Navy). **MPOWER CLETHODIM Herbicide is to be used only with the adjuvant MPower Tonto**.

MPOWER CLETHODIM Herbicide is a systemic herbicide which is translocated from the treated foliage to the growing points of the leaves, shoots and roots. Uptake into the plant is primarily through its leaves. Thorough coverage of the foliage is important for consistent grass control. Susceptible grasses that are actively growing will undergo a burn-back and colour change after treatment. Leaf foliage will first change from green to yellowish, then purplish and finally brown colour. The time required for complete control is normally 7 to 21 days following treatment, depending on growing conditions and crop competition.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid contact with eyes and clothing. Causes skin irritation. DO NOT get on skin. Wash concentrate from skin or eyes immediately. Do not inhale fumes. Avoid breathing vapours or spray mist. After use, wash hands and other exposed skin. When using, do not eat, drink or smoke. Remove and launder contaminated clothing separately from household laundry before reuse. Store the container tightly closed and away from seeds, feeds, fertilizer, plants and foodstuffs. Observe appropriate provincial buffer zones around bodies of water and wetland areas. When handling the concentrate, mixing, loading or during cleanup and repair, wear goggles or face shield, rubber apron, chemical-resistant gloves, rubber boots, long- sleeved shirt and long pants. Wear long-sleeved shirt and long pants during application. In addition, for hand-held application equipment, including backpack sprayer, wear chemical-resistant gloves during application.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

DO NOT enter or allow worker 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 web site at: www.croplife.ca

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

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

This product contains aromatic petroleum distillates that are toxic to aquatic organisms.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (for example, sandy soil) and/or the depth to the water table is shallow.

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

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

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control centre or doctor for treatment advice.

Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat the patient symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

STORAGE AND DISPOSAL

STORAGE: To prevent contamination, store this product away from food or feed.

DISPOSAL:

RECYCLABLE CONTAINER DISPOSAL: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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

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

DISPOSAL OF UNUSED, UNWANTED PRODUCT: 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 cleanup 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.

MPOWER CLETHODIM HERBICIDE

GROUP 1 HERBICIDE

POST-EMERGENCE HERBICIDE FOR CONTROL OF GRASSES IN CANOLA (including imazethapyr-tolerant varieties), FLAX (including low linolenic acid varieties), FIELD PEAS, LENTILS, DESI and KABULI CHICKPEAS, DRY ONIONS, POTATOES, MUSTARD (oriental, brown, yellow) (condiment type only), SOYBEANS, SEEDLING ALFALFA, SUNFLOWERS, and DRY BEANS (Pinto, Black, Great Northern, Red, Pink and Navy)

AGRICULTURAL

EMULSIFIABLE CONCENTRATE

ACTIVE INGREDIENT: CLETHODIM 240 g/L

REGISTRATION NO. 32614 PEST CONTROL PRODUCTS ACT

WARNING: EYE AND SKIN IRRITANT

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ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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Avoid application when heavy rain is forecast.

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

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DIRECTIONS FOR USE:

MPOWER CLETHODIM Herbicide is to be used only on canola (including imazethapyr-tolerant varieties), flax (including low linolenic acid varieties), field peas, lentils, Desi and Kabuli chickpeas, dry onions, potatoes, mustard (oriental, brown, yellow) (condiment type only), soybeans, seedling alfalfa, sunflowers and dry beans (Pinto, Black, Great Northern, Red, Pink and Navy).

Apply a maximum of one application per season on dry common beans (*Phaseolus vulgaris* varieties only).

Not for use in greenhouses.

A 30-day plant-back interval should be observed for all unlabelled crops.

DO NOT apply using aerial application equipment.

Time of Application:

Apply MPOWER CLETHODIM Herbicide when the annual grasses and volunteer cereals are in the 2 to 6 leaf stage as specified under APPLICATION RATES OF MPOWER CLETHODIM HERBICIDE. Most effective control is achieved when application is made prior to tillering when annual grasses are small and actively growing.

For suppression or control of quackgrass, apply MPOWER CLETHODIM Herbicide when the quackgrass is in the 2 to 6 leaf stage and 6 to 15 cm in height. Most effective results are achieved when application is made at the 3 to 5 leaf stage, when the canopy is uniform and actively growing.

MPOWER CLETHODIM Herbicide will be less effective when plants are stressed by lack of moisture, excessive moisture, low temperature and/or very low relative humidity. Regrowth by tillering may occur if application is made under any of the above stress conditions. In wide row

crops, where the canopy may be slow to close, cultivation may be necessary to control grasses that emerge after treatment.

Canola (including imazethapyr-tolerant varieties), flax (including low linolenic acid varieties), field peas, lentils, Desi and Kabuli chickpeas, dry onions, potatoes, mustard (oriental, brown, yellow) (condiment type only), soybeans, seedling alfalfa, sunflowers and dry beans (Pinto, Black, Great Northern, Red, Pink and Navy) are tolerant to MPOWER CLETHODIM Herbicide at all stages of growth. However, the pre-harvest interval outlined in the Crop Recommendations table must be followed to avoid excessive crop residues.

For Desi and Kabuli chickpeas, apply MPOWER CLETHODIM Herbicide at a maximum of one application per season before the crop reaches the 9 node stage (18 cm height maximum) and when the annual grasses and volunteer cereals are in the 2 to 6 leaf stage.

Application Rates of MPOWER CLETHODIM Herbicide:

Rates of use are given below to control various grass species. Refer to crop section for the maximum use rate on each crop.

Grass Species	Leaf Stage	Application Rate of MPOWER CLETHODIM Herbicide	Application Rate of Adjuvant MPower Tonto
*Foxtail (green, yellow) Wild oats Volunteer cereals (wheat, barley, oats)	2-4	0.125 L/ha	0.5 % v/v
Barnyard Grass Witchgrass Fall panicum Proso millet Volunteer Corn Volunteer canary grass	2-6	0.125 L/ha	0.5 % v/v

Wild Oats Volunteer cereals (wheat, barley, oats) Foxtail (green, yellow) Persian darnel Crabgrass (smooth and large) Proso millet Witchgrass Fall panicum Barnyard grass Volunteer corn Volunteer canary grass Quackgrass suppression	2-6	0.19 L/ha	0.5 % v/v
Quackgrass control	2-6	0.38 L/ha	1.0 % v/v

- * MPOWER CLETHODIM Herbicide applied at 0.125 L/ha for the control of weeds listed in this section of the table should only be applied under the following conditions:
 - Good crop stand
 - Early application (as in above table, prior to tillering)
 - Do not tank-mix with other pesticides
 - Do not apply to volunteer winter cereals
 - Light to moderate weed infestation
 - Adequate moisture and fertility
 - Absence of stress, good growing conditions

If any one of the above conditions is not present at the time of application, use 0.19 L/ha rate of MPOWER CLETHODIM Herbicide.

CROP RECOMMENDATIONS:

Crops	Maximum Application Rate of MPOWER CLETHODIM Herbicide	Pre-Harvest Interval	
Canola	0.38 L/ha	60 days	
Flax (including low linolenic acid varieties)	0.38 L/ha	60 days	
Field Peas	0.38 L/ha	75 days	
Lentils	0.38 L/ha	60 days	
Desi and Kabuli Chickpeas	0.19 L/ha	60 days	
Dry Onions	0.38 L/ha	45 days	
Crops	Maximum Application Rate of MPOWER CLETHODIM Herbicide	Pre-Harvest Interval	
Potatoes	0.38 L/ha	60 days	
Mustard (oriental, brown, yellow), (condiment type only)	0.38 L/ha	60 days	
Soybeans	0.38 L/ha	75 days	
Seedling Alfalfa	0.38 L/ha	30 days	
Sunflowers	0.38 L/ha	72 days	
Dry Beans (Pinto, Black, Great Northern, Red, Pink and Navy)	0.19 L/ha	60 days	

TANK-MIXES

MPOWER CLETHODIM Herbicide AND BADGE:

Flax (including low linolenic acid varieties): MPOWER CLETHODIM Herbicide may be tank-mixed with **BADGE** for control of certain broadleaf and grassy weeds in flax (including low linolenic acid varieties) in one spray operation. Apply in 55 - 110 litres of water per hectare at a spray pressure of 275 kPa. DO NOT spray this tank-mix on plants under stress. DO NOT spray during periods of hot, humid weather. Follow all precautions, limitations and timing recommendations on the BADGE label. The most stringent label precautions for any individual pesticide product in a tank-mix should be used.

Time of Application: Flax (including low linolenic acid varieties), may be treated from 5 cm high to the early bud stage. For best results, apply when flax (including low linolenic acid varieties) is 5 cm to 10 cm high and weeds are in the seedling stage. If broadleaf weeds and grassy weeds are not in the recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 - 0.38 L/ha tank-mixed with BADGE at 1.25 L/ha and the adjuvant MPower Tonto at 0.5% - 1.0% v/v.

Weeds Controlled: As listed for MPOWER CLETHODIM Herbicide used alone, plus certain seedling broadleaf weeds. Refer to the BADGE label for the broadleaf weeds controlled.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. If tank-mixing MPOWER CLETHODIM Herbicide and BADGE for once-over grass and broadleaf weed control in flax (including low linolenic acid varieties) add the correct amount of BADGE. Continue to agitate.
- 4. Add the correct amount of MPOWER CLETHODIM Herbicide. Continue to agitate.
- 5. Add the correct amount of adjuvant MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.
- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight.
- 8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

For disposal of cleaning solution see section on DISPOSAL.

MPOWER CLETHODIM Herbicide AND MCPA ESTER:

Flax: MPOWER CLETHODIM Herbicide may be tank-mixed with MCPA ESTER for control of certain broadleaf and grassy weeds in flax in one spray operation. Apply in a minimum of 100 L/ha spray volume at a pressure of 275 kPa.

NOTE: THIS TANK-MIX MAY NOT BE APPLIED TO LOW LINOLENIC ACID VARIETIES OF FLAX.

Time of Application: Flax may be treated from 5 cm tall to just before the bud stage. Do not apply after the early bud stage. Apply when the grassy weeds are in the 2 to 6 leaf stage and broadleaf weeds are in the seedling stage and actively growing. If broadleaf weeds and grassy weeds are not in the recommended treatment stage at the same time, then separate applications should be made

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 - 0.38 L/ha tank-mixed with MCPA ESTER and the adjuvant MPower Tonto at 0.5% - 1.0% v/v.

Weeds Controlled: As listed for MPOWER CLETHODIM Herbicide used alone, plus certain seedling broadleaf weeds. Refer to the MCPA ESTER label for the rates and broadleaf weeds controlled and specific information on flax.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. Add the correct amount of MCPA ESTER. Continue to agitate.
- 4. Add the correct amount of MPOWER CLETHODIM Herbicide. Continue to agitate.
- 5. Add the correct amount of adjuvant MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.
- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight.
- 8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

MPOWER CLETHODIM Herbicide AND LONTREL® 360:

Flax: MPOWER CLETHODIM Herbicide may be tank-mixed with LONTREL 360 for control of certain broadleaf and grass weeds in flax in one spray operation. Apply in a minimum of 100 L/ha spray volume at a pressure of 275 kPa.

NOTE: THIS TANK-MIX MAY NOT BE APPLIED TO LOW LINOLENIC ACID VARIETIES OF FLAX.

Follow all precautions, limitations and timing recommendations on the LONTREL 360 label.

Time of Application: Flax may be treated from 5 cm to 10 cm in height. Apply when the grassy weeds are in the 2 to 6 leaf stage and the broadleaf weeds are actively growing. Application to Canada thistle should be made when Canada thistle is in the rosette to pre-bud stage of growth. If broadleaf weeds and grass weeds are not in recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 L/ha tank-mixed with LONTREL 360 at 0.56 to 0.83 L/ha and with the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: Wild oats, green foxtail, volunteer barley, volunteer wheat, volunteer oats, wild buckwheat.

Canada thistle	0.56 L LONTREL 360/ha	Season-long control	
	0.83 L LONTREL 360/ha	Control extended into following year	

MIXING INSTRUCTIONS: For mixing instructions, refer to MPOWER CLETHODIM Herbicide AND LONTREL 360 tank-mix on canola.

Canola: MPOWER CLETHODIM Herbicide may be tank-mixed with LONTREL 360 for control of certain broadleaf and grass weeds in canola in one spray operation. Apply in a minimum of 100 L/ha spray volume at a pressure of 275 kPa. Follow all precautions, limitations and timing recommendations on the LONTREL 360 label.

Time of Application: Canola may be treated from the 2 to 6 leaf stage. Apply when the grassy weeds are in the 2 to 6 leaf stage and the broadleaf weeds are actively growing. Application to Canada thistle should be made when Canada thistle is in the rosette to pre-bud stage of growth. If broadleaf weeds and grass weeds are not in recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 L/ha tank-mixed with LONTREL 360 at 0.42 to 0.83 L/ha and with the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: Wild oats, green foxtail, volunteer barley, volunteer wheat, volunteer oats.

Wild Buckwheat	0.56 L LONTREL 360/ha Season-long control			
Canada thistle	0.42 L LONTREL 360/ha Top growth control to 6 - 8 weeks			
0.56 L LONTREL 360/ha Season-long control				
	0.83 L LONTREL 360/ha Control into following year			

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. Add the required amount of LONTREL 360 to the tank. Continue to agitate.

- 4. Add the correct amount of MPOWER CLETHODIM Herbicide. Continue to agitate.
- 5. Add the correct amount of adjuvant MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.
- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight. In the case of tank mixtures with broadleaf herbicides, settling will occur if agitation is not continuous.
- 8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
- 9. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

MPOWER CLETHODIM Herbicide AND PURSUIT®:

Field Peas: MPOWER CLETHODIM Herbicide may be tank-mixed with PURSUIT for control of certain broadleaf and grassy weeds in field peas in one spray operation. Apply in a minimum of 100 litres of water per hectare at a spray pressure of 275 kPa. Follow all precautions, limitations and timing recommendations on the PURSUIT label.

Time of Application: Field peas may be treated up to the sixth (6th) trifoliate leaf stage. Apply when volunteer wheat, volunteer barley, wild oats and green foxtail are in the 2 to 6 leaf stage. Apply up to the 4 leaf stage for control of broadleaf weeds. If broadleaf weeds and grassy weeds are not in the recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 L/ha tank-mixed with PURSUIT at 210 mL/ha and the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: Wild oats, green foxtail, volunteer barley, volunteer wheat plus the weeds as listed on the PURSUIT label.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. If tank-mixing MPOWER CLETHODIM Herbicide and PURSUIT for once over grass and broadleaf weed control in field peas, add the correct amount of PURSUIT. Continue to agitate.
- 4. Add the required amount of MPOWER CLETHODIM Herbicide to the tank. Continue to agitate.
- 5. Add the correct amount of adjuvant MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.

- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight.
- 8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Imazethapyr Tolerant Canola (e.g. canola varieties with the SMART trait): MPOWER CLETHODIM Herbicide may be tank-mixed with PURSUIT for control of certain broadleaf and grassy weeds in imazethapyr-tolerant canola varieties in one spray operation. Apply in a minimum of 100 litres of water per hectare at a spray pressure of 275 kPa. Follow all precautions, limitations and timing recommendations on the PURSUIT label.

Time of Application: Imazethapyr-tolerant canola varieties may be treated after the crop has developed one (1) fully expanded leaf. Apply when grassy weeds are in the 2 to 6 leaf stage. Apply up to the 4 leaf stage for control of broadleaf weeds.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19L/ha tank-mixed with PURSUIT at 0.105 or 0.21 L/ha and the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: As listed for MPOWER CLETHODIM Herbicide plus the following additional weeds. PURSUIT at 0.105 L/ha for control of chickweed, hempnettle, redroot pigweed*, stinkweed, volunteer canola (not imazethapyr-tolerant), wild mustard and wild buckwheat*, in the 1 to 4 leaf stage.

*For the control of light infestations only. For heavy infestations use the 0.21 L/ha rate of PURSUIT.

PURSUIT at 0.21 L/ha for control of weeds as listed on the PURSUIT label.

MIXING INSTRUCTIONS: For mixing instructions, refer to MPOWER CLETHODIM Herbicide AND PURSUIT tank-mix on field peas.

MPOWER CLETHODIM Herbicide AND MUSTER®:

Canola: MPOWER CLETHODIM Herbicide may be tank-mixed with MUSTER for control of certain broadleaf and grassy weeds in canola in one spray operation. Apply in a minimum of 100 litres of water per hectare at a spray pressure of 275 kPa. Follow all precautions, limitations and timing recommendations on the MUSTER label.

Time of Application: Canola may be treated from the 2 leaf stage to the beginning of bolting. Apply when the grassy weeds are in the 2 to 6 leaf stage and when the broadleaf weeds are in the cotyledon to 6 leaf stage. If broadleaf weeds and grassy weeds are not in the recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 L/ha tank-mixed with MUSTER at 20 or 30 g/ha and the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: MUSTER at 20 or 30 g/ha: Wild oats, green foxtail, volunteer barley, volunteer oats, volunteer wheat, hempnettle, wild mustard, green smartweed, flixweed (spring seedlings), stinkweed*, and redroot pigweed.

* Stinkweed suppression at the lower rate. Apply to stinkweed in the 1 to 4 leaf stage.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. Add the required amount of MUSTER to the tank. Continue to agitate.
- 4. Once MUSTER is in suspension, add the required amount of MPOWER CLETHODIM Herbicide. Continue to agitate.
- 5. Add the correct amount of adjuvant MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.
- 7. On repeat tankloads, prepare a MUSTER/water slurry and add to required water volume in the spray tank prior to adding MPOWER CLETHODIM Herbicide and the adjuvant MPower Tonto.
- 8. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight.
- 9. Immediately after use, refer to MUSTER label for appropriate tank cleanout instructions.

MPOWER CLETHODIM Herbicide AND LIBERTY®:

Canola: For use on Glufosinate Ammonium tolerant canola varieties only (e.g. varieties or hybrids labelled LIBERTY LINK). MPOWER CLETHODIM Herbicide may be tank-mixed with LIBERTY for control of certain broadleaf and grass weeds in Glufosinate Ammonium tolerant canola varieties in one spray operation. Apply in a minimum of 110 L/ha spray volume at a pressure of 275 kPa. Follow all precautions, limitations and timing recommendations on the LIBERTY label.

Time of Application: Glufosinate Ammonium tolerant canola varieties may be treated from the cotyledon stage up to the early bolting stage. Apply when the wild oats, volunteer wheat, volunteer oats and green foxtail are in the 1 to 5 leaf stage. Refer to LIBERTY label for application timing on all remaining grass and broadleaf weeds for 2.7 or 3.3 L/ha.

Application Rate: MPOWER CLETHODIM Herbicide at 0.06 L/ha tank-mixed with LIBERTY at 2.7 to 3.3 L/ha and with the adjuvant MPower Tonto at 0.5% v/v.

Weeds Controlled: Wild oats, green foxtail, volunteer barley, volunteer wheat, volunteer oats plus all remaining grass weeds and broadleaf weeds listed on the LIBERTY label at the application rates of 2.7 and 3.3 L/ha.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. Add the required amount of the adjuvant MPower Tonto to the tank. Continue to agitate until thoroughly mixed.
- 4. STOP agitation. Add the correct amount of LIBERTY to the spray tank. Start agitation system.
- 5. Add the correct amount of MPOWER CLETHODIM Herbicide along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system and spray out immediately.
- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight. In the case of tank mixtures with broadleaf herbicides, settling will occur if agitation is not continuous.
- 8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
- 9. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

MPOWER CLETHODIM Herbicide AND CURTAIL® M

Flax (including low linolenic acid varieties): MPOWER CLETHODIM Herbicide may be tank-mixed with CURTAIL M for control of certain broadleaf and grass weeds in flax in one spray operation. Apply in a minimum of 100 L/ha spray volume at a pressure of 275 kPa.

Follow all precautions, limitations, restrictions and timing recommendations on the CURTAIL M label.

Time of Application: Flax may be treated from 5 to 15 cm in height. Apply when the grassy weeds are in the 2-6 leaf stage and the broadleaf weeds are actively growing. Application to Canada thistle should be made when Canada thistle is between 10 cm and up to the pre-bud stage. If broadleaf weeds and grass weeds are not in recommended treatment stage at the same time, then separate applications should be made.

Application Rate: MPOWER CLETHODIM Herbicide at 0.19 L/ha tank-mixed with CURTAIL M at 1.5 to 2.0 L/ha and with the surfactant MPower Tonto at 0.5% v/v.

Weeds Controlled: Weed claims listed on the MPOWER CLETHODIM Herbicide label plus weed claims listed on CURTAIL M label. Refer to the CURTAIL M label for the broadleaf weeds controlled.

Grazing Interval: Do not cut treated crops for feed or graze until 60 days after application.

MIXING INSTRUCTIONS:

- 1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
- 2. Fill clean spray tank half full with clean water. Start agitation system.
- 3. Add the required amount of CURTAIL M to the tank. Continue to agitate.
- 4. Add the correct amount of MPOWER CLETHODIM Herbicide. Continue to agitate.
- 5. Add the correct amount of MPower Tonto along with the remaining amount of water necessary to fill the spray tank.
- 6. Continue to agitate or run the by-pass system.
- 7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to re-mix the spray materials. Do not allow the mixture to sit overnight. In the case of tank mixtures with broadleaf herbicides, settling will occur if agitation is not continuous.
- 8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
- 9. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

FOR USE ON DRY BEANS (PINTO, BLACK, GREAT NORTHERN, RED, PINK AND NAVY):

For control of weeds listed on the MPOWER CLETHODIM Herbicide label.

Time of application: Apply a maximum of one application per year, post-emergent by ground application. Apply MPOWER CLETHODIM Herbicide at 0.125 to 0.19 L/ha with the adjuvant MPower Tonto at 0.5% v/v when grassy weeds are in the 2 to 6 leaf stage.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR USE ON DRY ONIONS:

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

PRODUCT FOR USE ON DRY ONIONS:

DIRECTIONS FOR USE: FOR USE ON DRY ONIONS

For suppression of annual bluegrass and control of other annual weeds listed on the MPOWER CLETHODIM Herbicide label.

Time of Application: Apply MPOWER CLETHODIM Herbicide post-emergent when the crop is in the 1 to 4 leaf stage. Apply by ground application. One application per year. Observe a PHI of 45 days.

Grass Species	Leaf Stage	Application Rate of MPOWER CLETHODIM	Application Rate of Adjuvant Surf-Act
Suppression of annual bluegrass	2-6	0.38 L/ha	0.5% v/v

SPRAYING INSTRUCTIONS:

DO NOT apply using aerial application equipment

Water volume and spray pressure:

For Ground Application, use sprayers equipped with standard flat fan nozzles. For optimum spray coverage use nozzles tilted 45° forward.

The use of flood jet or hollow cone nozzles is not recommended, because of uneven and inadequate spray coverage. Thorough and uniform spray coverage over the entire leaf area of the target weeds is necessary for optimum weed control.

Thoroughly clean all screens to prevent nozzle clogging, especially when water volumes of 55 to 110 L/ha are used.

In general, use water volumes of 55 to 225 L/ha and a minimum of 275 kPa pressure. For applications to dense weed infestations or to dense crop canopies, use a minimum of 110 litres of water per hectare at pressures of 275 to 425 kPa. In any situation, ensure the proper rate of adjuvant MPower Tonto is maintained as listed on the label under APPLICATION RATES OF MPOWER CLETHODIM HERBICIDE.

RESTRICTIONS AND LIMITATIONS:

- 1. Use only for crops listed on the label.
- 2. Thorough pre-plant tillage operations are required to fields where sod or forage grass crops may have grown in the previous year.
- 3. Take necessary precautions to avoid sprayer overlaps.
- 4. Rainfall within one hour of application may reduce the effectiveness of the spray.
- 5. Do not mix or apply MPOWER CLETHODIM Herbicide with any other additive, pesticide or with fertilizer except as specifically recommended on the label.
- 6. Allow 4 days between application of MPOWER CLETHODIM Herbicide and any other chemical not recommended as a tank-mix combination on the label.
- 7. Do not apply more than 0.38 L/ha (90 grams a.i./ha) per season.
- 8. Do not use crops for grazing of livestock or green feed following application of MPOWER CLETHODIM Herbicide until after the appropriate interval as specified in the crop recommendations table has been observed. Do not cut treated crops for forage until the appropriate interval as specified in the crop recommendations table has been observed.
- 9. **DO NOT apply using aerial application equipment**. Use ground equipment only.

<u>Field sprayer application</u>: **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 S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

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

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		T
		Less than 1 m	Greater than 1 m	Terrestrial habitat
Field sprayer	All crops	1	1	1

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

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Drift Mitigation page of the Pesticides and Pest Management portion of the Canada.ca web site.

HERBICIDE RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, MPOWER CLETHODIM Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to MPOWER CLETHODIM Herbicide and other Group 1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of MPOWER CLETHODIM Herbicide or other Group 1 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development
 (for example, only one weed species on the herbicide label not controlled). If resistance is
 suspected, prevent weed seed production in the affected area if possible by an alternative
 herbicide from a different group. Prevent movement of resistant weed seeds to other fields
 by cleaning harvesting and tillage equipment when moving between fields, and planting
 clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated
- For further information or to report suspected resistance, contact AgraCity Crop & Nutrition Ltd.

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.

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