

2024-1378  
2024-06-04

GROUP	1	HERBICIDE
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# CLETHODIM 360EC Herbicide

## EMULSIFIABLE CONCENTRATE HERBICIDE

### COMMERCIAL (AGRICULTURAL)

POST-EMERGENCE HERBICIDE FOR CONTROL OF GRASSES IN SEEDLING ALFALFA, LEGUME VEGETABLES (SUCCULENT OR DRIED), EDAMAME, HIGHBUSH AND LOWBUSH BLUEBERRY, CANOLA, BASIL, CORIANDER, DILL, CARAWAY, FENUGREEK, CRANBERRY, FLAX (including low linolenic acid varieties), ORIENTAL (BROWN) MUSTARD (condiment and oilseed types), *BRASSICA CARINATA*, YELLOW MUSTARD, DRY BULB ONION, DRY BULB SHALLOT, GARLIC, GREEN ONION, LEEK, POTATOES, PRAIRIE CARNATION, SAFFLOWER, SPINACH, SUNFLOWER, GARDEN (TABLE) BEET, PARSNIP, CARROT, RADISH, CELERIAC, RUTABAGA, CHERRY (TART AND SWEET), CERTAIN HERBS, SPICES, HOPS, CHINESE CABBAGE (napa), CELERY AND BUCKWHEAT.

#### ACTIVE INGREDIENT:

Clethodim..... 360 g/L

**Warning, contains the allergen soy**

REGISTRATION NUMBER 31496

PEST CONTROL PRODUCTS ACT

**CAUTION – EYE IRRITANT**

**READ THE LABEL AND ATTACHED BOOKLET**

**BEFORE USING KEEP OUT OF REACH OF**

**CHILDREN**

**NET CONTENTS: 250 mL - 1000 L, BULK**

**For Product Use Information Call 1-800-438-6071**

**UPL AgroSolutions Canada Inc.**

**PO Box 12219**

**Research Triangle Park, NC 27709**

**FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call  
CHEMTREC 1-800-424-9300**

## **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.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

May irritate eyes. Avoid contact with eyes. DO NOT inhale fumes, vapours or spray mist. Do not eat, drink, or smoke while mixing, loading or applying. Wash thoroughly with soap and water after handling.

**DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.**

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

## **PROTECTIVE CLOTHING**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up, and repair. Gloves are not required during application within a closed cab and/or cockpit.

Wash gloves thoroughly with soap and water before removing them during any operation. Wash hands thoroughly with soap and water after using this product and before eating, drinking, smoking, or using toilet. Remove contaminated clothing immediately if pesticide gets inside or after use. Store and wash contaminated clothing separately from household laundry and before reuse.

## **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 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 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.

### **TOXICOLOGICAL INFORMATION**

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying stomach.

### **ENVIRONMENTAL PRECAUTIONS**

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

Toxic to beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize exposure to non-target areas.

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 filter strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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

### **STORAGE**

Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area.

### **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.

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**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 clean-up of spills.

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<b>GROUP</b>	<b>1</b>	<b>HERBICIDE</b>
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# **CLETHODIM 360EC Herbicide**

## **EMULSIFIABLE CONCENTRATE HERBICIDE**

### **COMMERCIAL (AGRICULTURAL)**

POST-EMERGENCE HERBICIDE FOR CONTROL OF GRASSES IN SEEDLING ALFALFA, LEGUME VEGETABLES (SUCCULENT OR DRIED), EDAMAME, HIGHBUSH AND LOWBUSH BLUEBERRY, CANOLA, BASIL, CORIANDER, DILL, CARAWAY, FENUGREEK, CRANBERRY, FLAX (including low linolenic acid varieties), ORIENTAL (BROWN) MUSTARD (condiment and oilseed types), *BRASSICA CARINATA*, YELLOW MUSTARD, DRY BULB ONION, DRY BULB SHALLOT, GARLIC, GREEN ONION, LEEK, POTATOES, PRAIRIE CARNATION, SAFFLOWER, SPINACH, SUNFLOWER, GARDEN (TABLE) BEET, PARSNIP, CARROT, RADISH, CELERIAC, RUTABAGA, CHERRY (TART AND SWEET), CERTAIN HERBS, SPICES, HOPS, CHINESE CABBAGE (napa), CELERY AND BUCKWHEAT.

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**KEEP OUT OF REACH OF CHILDREN**

**NET CONTENTS: 250 mL – 1000L, Bulk**

**For Product Use Information Call 1-800-438-6071**

**UPL AgroSolutions Canada Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406**

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## **NOTICE TO USER**

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

May irritate eyes. Avoid contact with eyes. **DO NOT** inhale fumes, vapours or spray mist. Do not eat, drink, or smoke while mixing, loading or during application. Wash thoroughly with soap and water after handling.

**DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.**

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

## **PROTECTIVE CLOTHING**

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Wash gloves thoroughly with soap and water before removing them during any operation. Wash hands thoroughly with soap and water after using this product and before eating, drinking, smoking, or using toilet. Remove contaminated clothing immediately if pesticide gets inside or after use. Store and wash contaminated clothing separately from household laundry and before reuse.

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### **ENVIRONMENTAL PRECAUTIONS**

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

Toxic to beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize exposure to non-target areas.

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 filter strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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### **STORAGE**

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**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 clean-up of spills.

### GENERAL INFORMATION

**CLETHODIM 360EC Herbicide** is an emulsifiable concentrate, selective, post-emergence herbicide for control of a broad range of grasses in seedling alfalfa, legume vegetables (succulent or dried), edamame, highbush and lowbush blueberry, canola, basil, coriander, dill, caraway fennugreek, cranberry, flax (including low linolenic acid varieties), oriental (brown) mustard (condiment and oilseed types), *Brassica carinata*, safflower, yellow mustard, dry bulb onion, dry bulb shallot, garlic, green onion, leek, potatoes, prairie carnation, spinach, sunflower, garden (table) beet, parsnip, carrot, radish, celeriac, rutabaga, cherry (tart and sweet), certain herbs, spices, hops, Chinese cabbage (napa), celery and buckwheat.

**CLETHODIM 360EC Herbicide needs to be applied with an adjuvant (see Application Instructions under the Directions For Use).**

**CLETHODIM 360EC 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.

### DIRECTIONS FOR USE

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-438-6071 or obtain technical advice from the distributor or your provincial agricultural representative.

### Restrictions and Limitations

- Use only for crops listed on the label.
- Thorough preplant tillage operations are required to fields where sod or forage grass crops may have grown in the previous year.
- Take necessary precautions to avoid sprayer overlaps.
- Rainfall within one hour of application may reduce the effectiveness of the spray.
- Do not mix or apply **CLETHODIM 360EC Herbicide** with any other additive, pesticide or with fertilizer except as specifically recommended on the label.
- The most stringent label precautions for any individual pesticide product in a tank-mix should be used.
- Allow 4 days between application of **CLETHODIM 360EC Herbicide** and any other chemical not recommended as a tank-mix combination on the label.
- Do not apply more than 0.25 L/ha (90 g ai/ha) per season.
- Do not use crops for grazing of livestock or green feed following application of **CLETHODIM 360EC Herbicide** until after the appropriate interval as specified in the Crop Recommendations table has been observed. Do not cut treated crops for forage until



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the appropriate interval as specified in the Crop Recommendations table has been observed.

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- **CLETHODIM 360EC Herbicide may be applied by air for certain crops specified in this label.**
- **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Not for use in greenhouses.
- 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.
- A 30-day plant-back interval should be observed for all unlabelled crops.

## **APPLICATION INSTRUCTIONS**

### **ADJUVANTS**

Apply **CLETHODIM 360EC Herbicide** with either AMIGO Adjuvant at 0.5 to 1% v/v or Journey HSOC at 0.5% v/v. Consult the adjuvant labels for complete directions for use and application instructions such as rate and registered crops.

### **Ground Application**

- 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 spray volumes of 55 to 110 L/ha are used.
- For ground applications, use spray 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 L/ha spray volume at pressures of 275 to 425 kPa. In any situation, ensure the proper rate of AMIGO Adjuvant is maintained as listed on the label under Application Rates of **CLETHODIM 360EC Herbicide**.

**For legume vegetables (succulent or dried) (except soybeans) and edamame, a minimum spray volume of 110 L/ha is recommended.**

### **Aerial Application**

- Apply **CLETHODIM 360EC Herbicide** alone or in tank-mixes (only with the recommended tank-mix partners that are registered for aerial use) in no less than 28 L/ha spray volume at a pressure no less than 300 kPa.
- Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
- Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended on this label.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use

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appropriate marking devices.

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- **Aerial Use Precautions**

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

**Aerial Operator Precautions**

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilots have communication capabilities at each treatment site at the time of application.
- The field crew and the mixer/loaders must wear goggles or face shield, rubber apron, chemically resistant gloves, rubber boots, long sleeved shirt and long-legged pants.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

**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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than

the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

### Spray Buffer Zones

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

The spray 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	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Seedling alfalfa, highbush and lowbush blueberry, cherry (tart and sweet), cranberry, caraway, chive, coriander, dill, fenugreek, dry bulb onion, dry bulb shallot, safflower, canola, carrot, flax (including low linolenic varieties), field pea, hops, lentils, oriental (brown) mustard (condiment and oilseed types), yellow mustard, <i>Brassica carinata</i> , potato, parsnip, radish, garden (table) beet, sunflower, celery, Chinese cabbage (napa), celeriac	1	1	2
	Spinach, Edamame, Edible-podded Legume (crop subgroup 6A) vegetables, Succulent shelled peas and beans (crop subgroup 6B), bean ( <i>lupines</i> , <i>phaseolus</i> , and <i>vigna</i> spp.), broad bean, chickpea, guar, lablab bean, Prairie carnation, pigeon pea, various herbs and spices (except chive, coriander, and dill), buckwheat	1	1	1

Aerial	Canola, flax (including low linolenic acid varieties), field peas, lentils, potatoes, Oriental (brown) mustard (condiment and oilseed types), yellow mustard, sunflowers, <i>Brassica carinata</i>	Fixed wing	10	1	60
		Rotary wing	10	1	50
	Bean ( <i>lupines, phaseolus, and vigna</i> spp.), broad bean, chickpea, guar, lablab bean, pigeon pea, buckwheat	Fixed wing	4	1	30
		Rotary wing	1	1	30

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 mixpartners.

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

For Cherry (sweet and tart):

Use of the following spray methods or equipment DO NOT require a spray buffer zone: hand- held or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage.

### TIME OF APPLICATION

Apply **CLETHODIM 360EC Herbicide** when the annual grasses and volunteer cereals are in the 2 to 6 leaf stage as specified under Application Rates of **CLETHODIM 360EC Herbicide**. Most effective control is achieved when application is made prior to tillering when annual grasses are small and actively growing.

**CLETHODIM 360EC 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.

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For suppression or control of quackgrass, apply **CLETHODIM 360EC 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.

For chickpeas, apply **CLETHODIM 360EC 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 are in the 2 to 6 leaf stage.

For dill and fenugreek, apply **CLETHODIM 360EC Herbicide** post-emergence, when fenugreek is in the 3 to 5 leaf stage at a maximum of one application per season.

For coriander or prairie carnation, apply **CLETHODIM 360EC Herbicide** post-emergence, when coriander or prairie carnation is in the 2 to 5 leaf stage at a maximum of one application per season.

For safflower, apply **CLETHODIM 360EC Herbicide** post-emergence, when safflower is in the 6 to 8 leaf stage at a maximum of one application per season.

Cranberry is tolerant to **CLETHODIM 360EC Herbicide** at all stages of growth, however, do not apply **CLETHODIM 360EC Herbicide** between the hook stage and full fruit set.

For dry bulb onions, dry bulb shallots and garlic, apply **CLETHODIM 360EC Herbicide** post-emergence, when crops are in the 1-4 leaf stage.

For green onion, apply **CLETHODIM 360EC Herbicide** post emergence, when crop is in the 2 – 3 leaf stage.

For leek, apply **CLETHODIM 360EC Herbicide** post-emergence at least 2 weeks after transplanting when crop is well established and has produced one new fully expanded leaf.

Apply **CLETHODIM 360EC Herbicide** only to established sweet and tart cherry trees. The pre-harvest interval outlined in the Crop Recommendations table must be followed to avoid excessive crop residues.

All other labelled crops are tolerant to **CLETHODIM 360EC 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.

#### **APPLICATION RATES OF CLETHODIM 360EC HERBICIDE**

Rates of use are given below to control various grass species. Apply **CLETHODIM 360EC Herbicide** with either AMIGO Adjuvant or JOURNEY HSOC. Refer to crop section for the maximum use rate on each crop.

	Application	Application Rate <sup>1</sup> of
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Grass Species	Leaf Stage	Rate of CLETHODIM 360EC Herbicide	AMIGO® Adjuvant	JOURNEY HSOC
*Foxtail (green, yellow) Wild oat Volunteer cereals (wheat, barley, oat)	2 to 4	0.083 L/ha	0.5 % v/v	0.5 % v/v
Barnyard Grass	2 to 6	0.083 L/ha	0.5 % v/v	0.5 % v/v
Witchgrass Fall panicum Proso millet Volunteer Corn Volunteer canary grass				
Wild Oat Volunteer cereals (wheat, barley, oat) Foxtail (green, yellow) Persian darnel Crabgrass (smooth and large) Proso millet Witchgrass Fall panicum Barnyard grass Volunteer corn Volunteer canary grass Japanese brome Foxtail barley Quackgrass suppression	2 to 6	0.125 L/ha	0.5 % v/v	0.5 % v/v
Quackgrass control**	2 to 6	0.25 L/ha	1.0 % v/v	n/a
Annual bluegrass suppression	2 to 6	0.25 L/ha	0.5 % v/v	0.5 % v/v
Japanese brome** Foxtail barley**	2 to 6 leaf maximum 3 tillers	0.25 L/ha	1.0 % v/v	n/a

<sup>1</sup> Choose either AMIGO Adjuvant or JOURNEY HSCO

\***CLETHODIM 360EC Herbicide** applied at 0.083 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

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- Absence of stress, good growing conditions

If any one of the above conditions are not present at the time of application, use 0.125 L/ha rate of **CLETHODIM 360EC Herbicide**.

\*\* For adequate control, use a minimum spray volume of 100 L/ha.

## **CROP RECOMMENDATIONS**

Crops	Maximum Application Rate of CLETHODIM 360EC HERBICIDE	Application Method <sup>7</sup>	Pre-Harvest Interval
Seedling Alfalfa	0.25 L/ha	Ground application only	30 days
Pigeon Pea <sup>1,2</sup>	0.125 L/ha	Ground and aerial application	75 days
<p><b>Edamame and Edible-podded legume vegetables (Crop subgroup 6A):</b> Bean (<i>Phaseolus</i> spp.) (includes runner bean, snap bean, wax bean), Bean (<i>Vigna</i> spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean), Jackbean (<i>Canavalia ensiformis</i>), Pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea), Sword bean (<i>Canavalia gladiata</i>).</p> <p><b>Succulent shelled peas and beans (Crop subgroup 6B):</b> Bean (<i>Phaseolus</i> spp.) (includes lima bean, green bean), Bean (<i>Vigna</i> spp.) (includes blackeyed pea, cowpea, southern pea), Broad bean (fava bean) (<i>Vicia faba</i>), Pea (<i>Pisum</i> spp.) (includes English pea, garden pea, green pea), Pigeon pea (<i>Cajanus cajan</i>)<sup>1,2,5</sup></p>	0.125 L/ha	Ground application only	21 days



<p><b>Dried Shelled Pea and Bean (Crop subgroup 6C) (except soybean, field pea, lentils, pigeon pea) including:</b>          Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin and white sweet lupin); bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (<i>vigna</i> spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (fava bean) (<i>Vicia faba</i>); chickpea (garbanzo bean) (<i>Cicer arietinum</i>); guar (<i>Cyamopsis tetragonoloba</i>); lablab bean (hyacinth bean) (<i>Lablab purpureus</i>); <sup>1,2</sup></p>	<p>0.125 L/ha</p>	<p>Ground and aerial application</p>	<p>60 days</p>
<p>Caraway, Coriander (cilantro)<sup>1,5</sup></p>	<p>0.25 L/ha</p>	<p>Ground application only</p>	<p>60 days for seed 30 days for leaves</p>
<p>Angelica; balm (lemon balm); <b>basil</b>; borage; burnet; chamomile; catnip; chervil; clary; costmary; culantro (leaf); horehound; hyssop; lavender; lovage; marigold; marjoram (includes sweet or annual marjoram, wild marjoram or oregano and pot marjoram); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; summer and winter savory; sweet bay (bay</p>	<p>0.125 L/ha</p>	<p>Ground application only</p>	<p>30 days</p>

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leaf); tansy; tarragon; thyme; wintergreen; woodruff; and wormwood 1,2,4,5			
Anise (anise seed); caraway (black); celery seed; culantro (seed); cumin; fennel [common and Florence (seed)]; juniper berry; lovage (seed); mustard (seed); poppy (seed); and Saffron. 1,2,4,5	0.125 L/ha	Ground application only	60 days
Cherry (sweet and tart) <sup>1</sup> , <sup>5, 8</sup> (established trees)	0.25 L/ha	Ground application only	14 days
Buckwheat <sup>1,5,7</sup>	0.125 L/ha	Ground and aerial application	60 days
Highbush Blueberry <sup>1,4,5</sup>	0.25 L/ha	Ground application only	14 days
Lowbush Blueberry <sup>1,5,9</sup>	0.25 L/ha	Ground application only	30 days
Canola	0.25 L/ha	Ground and aerial application	60 days
Carrot, Celeriac, Garden (table) beet, Parsnip Radish, Rutabaga <sup>3,5</sup>	0.25 L/ha	Ground application only	30 days
Cranberry <sup>1,2,5</sup>	0.25 L/ha	Ground application only	30 days
Chive, Celery, Chinese Cabbage (napa) <sup>1,5</sup>	0.25 L/ha	Ground application only	30 days
Dill <sup>1,5</sup>	0.25 L/ha	Ground application only	30 days (dillweed leaves) 40 days (dill seed)
Flax (including low linolenic acid varieties)	0.25 L/ha	Ground and aerial application	60 days
Fenugreek <sup>1,3,5</sup>	0.25 L/ha	Ground application only	30 days (leaf and seed)
Field Peas	0.25 L/ha	Ground and aerial application	75 days
Hops <sup>1,4,5</sup>	0.25 L/ha	Ground application only	21 days
Lentils	0.25 L/ha	Ground and aerial application	60 days

Oriental (Brown) Mustard (condiment and oilseed types)	0.25 L/ha	Ground and aerial application	60 days
Yellow Mustard	0.25 L/ha	Ground and aerial application	60 days
<i>Brassica carinata</i>	0.25 L/ha	Ground and aerial application	60 days
Dry Bulb Onions, Dry	0.25 L/ha	Ground application	45 days

Bulb Shallot and Garlic <sup>1,5</sup>		only	
Green Onion <sup>1,5</sup>	0.25 L/ha	Ground application only	14 days
Leek <sup>1,5</sup>	0.25 L/ha	Ground application only	14 days
Potatoes	0.25 L/ha	Ground and aerial application	60 days
Prairie Carnation <sup>1,5,6</sup>	0.125 L/ha	Ground application only	N/A
Safflower <sup>1,5</sup>	0.25 L/ha	Ground application only	70 days
Spinach <sup>3,5</sup>	0.125 L/ha	Ground application only	14 days
Sunflowers	0.25 L/ha	Ground and aerial application	72 days

1. Apply a maximum of one application per year.
2. NOTE: Varieties of this crop or crops in this crop group may vary in their tolerance to herbicides, including **CLETHODIM 360EC HERBICIDE**. Since not all crops or crop varieties have been tested for tolerance to **CLETHODIM 360EC HERBICIDE**, first use of **CLETHODIM 360EC HERBICIDE** should be limited to a small area of each crop or variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your supplier for information on the tolerance of specific varieties to **CLETHODIM 360EC HERBICIDE**.
3. Apply a maximum of two applications per year. If repeat application is required, allow at least 14 days between first and second application.
4. Apply **CLETHODIM 360EC HERBICIDE** as a broadcast spray directed to the ground.
5. Refer to section "MINOR USES" in this label for additional use instructions.
6. Do not harvest treated prairie carnations for human consumption.
7. SPRAY VOLUME FOR AERIAL APPLICATION: Apply in 28 to 55 L/ha. Increase spray volumes up to 100L/ha as grass or crop foliage becomes dense.
8. Do not apply **CLETHODIM 360EC HERBICIDE** directly over the top of the sweet and tart cherry trees. Direct the spray at the base of the tree where grassy weeds are growing. If **CLETHODIM 360EC HERBICIDE** is improperly applied, crop injury can occur.
9. Apply **CLETHODIM 360EC HERBICIDE** as a broadcast spray over the top for lowbush

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blueberries.

### **TANK-MIXES:**

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

### **TANK-MIXES**

#### **CLETHODIM 360EC HERBICIDE AND A HERBICIDE CONTAINING ONLY BROMOXYNIL AND MCPA (e.g., BUCTRIL® M)**

**FLAX (including low linolenic acid varieties):** **CLETHODIM 360EC Herbicide** may be tank-mixed with a herbicide containing only bromoxynil and MCPA for control of certain broadleaf and grassy weeds in flax (including low linolenic acid varieties) in one spray operation. Apply in 55 to 110 litres of water per hectare at a 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 bromoxynil + MCPA herbicide product 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 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:** **CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with a bromoxynil + MCPA herbicide product at 280 g ae/ha + 280 g ae/ha and AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

**Weeds Controlled:** As listed for **CLETHODIM 360EC Herbicide** used alone, plus certain seedling broadleaf weeds. Refer to the bromoxynil + MCPA herbicide product 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 **CLETHODIM 360EC Herbicide** and a bromoxynil + MCPA herbicide product for once-over grass and broadleaf weed control in flax (including low linolenic acid-varieties), add the correct amount of the bromoxynil + MCPA herbicide product. Continue to agitate.
4. Add the correct amount of **CLETHODIM 360EC Herbicide**. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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.

### **CLETHODIM 360EC HERBICIDE AND CURTAIL® M HERBICIDE**

**FLAX (including low linolenic acid varieties):** **CLETHODIM 360EC Herbicide** may be tank-mixed with CURTAIL M Herbicide 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 Herbicide label.

**Time of Application:** Flax may be treated from 5 to 15 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 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:** **CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with CURTAIL M Herbicide at 1.5 to 2.0 L/ha and with AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

**Weeds Controlled:** Weed claims listed on the **CLETHODIM 360EC Herbicide** label plus weed claims listed on Curtail M Herbicide label. Refer to the CURTAIL M Herbicide 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 Herbicide to the tank. Continue to agitate.
4. Add the correct amount of **CLETHODIM 360EC Herbicide**. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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.

### **CLETHODIM 360EC HERBICIDE AND MCPA ESTER:**

**FLAX:** **CLETHODIM 360EC Herbicide** may be tank-mixed with MCPA ESTER for control of certain broadleaf and grassy weeds in flax in one spray operation. For ground applications, apply in a minimum of 100 L/ha spray volume at a pressure of 275 kPa.

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For aerial application apply this tank-mix in a minimum of 30 L/ha spray volume at a pressure of 235 kPa.

Follow all precautions, limitations and timing recommendations on the MCPA Ester label. The most stringent label precautions for any individual pesticide product in a tank-mix should be used.

**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 broad leaf 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: CLETHODIM 360EC Herbicide** at 0.125 to 0.25 L/ha tank-mixed with MCPA ESTER and AMIGO Adjuvant at 0.5 to 1.0 % v/v or JOURNEY HSOC at 0.5%v/v.

**Weeds Controlled:** As listed for **CLETHODIM 360EC 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 **CLETHODIM 360EC Herbicide**. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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.

#### **CLETHODIM 360EC HERBICIDE AND LONTREL®**

**FLAX (including low linolenic acid varieties): CLETHODIM 360EC Herbicide** may be tank-mixed with LONTREL 360 Herbicide, LONTREL XC Herbicide or LONTREL 72 Herbicide 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 and timing recommendations on the LONTREL 360 Herbicide, LONTREL XC Herbicide or LONTREL 72 Herbicide label.

**Time of Application:** Flax may be treated from 5 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.

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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: CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with LONTREL 360 Herbicide at 0.56 to 0.83 L/ha, or LONTREL XC Herbicide at 0.34 L/ha to 0.5 L/ha or LONTREL 72 Herbicide at 280 g/ha to 415 g/ha and with AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

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

Canada thistle	200 g ae/ha clopyralid	Season-long control
	300 g ae/ha clopyralid	Control extended into following year.

**Mixing Instructions:** For mixing instructions, refer to **CLETHODIM 360EC Herbicide** and LONTREL 360 Herbicide, LONTREL XC Herbicide or LONTREL 72 Herbicide tank-mix on canola.

**CANOLA: CLETHODIM 360EC Herbicide** may be tank-mixed with LONTREL 360 Herbicide, LONTREL XC Herbicide or LONTREL 72 Herbicide 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 Herbicide, LONTREL XC Herbicide or LONTREL 72 Herbicide 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: CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with LONTREL 360 Herbicide at 0.42 to 0.83 L/ha or LONTREL XC Herbicide at 0.25 L/ha to 0.5 L/ha or LONTREL 72 Herbicide at 210 g/ha to 415 g/ha and with AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

**Weeds Controlled:** Wild oat, green foxtail, volunteer barley, volunteer wheat, volunteer oat.

Wild Buckwheat	200 g ae/ha clopyralid	Season-long control
Canada thistle	150 g ae/ha clopyralid	Top growth control to 6 to 8 weeks
	200 g ae/ha clopyralid	Season-long control
	300 g ae/ha clopyralid	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 Herbicide, LONTREL XC Herbicide or LONTREL 72



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Herbicide to the tank. Continue to agitate.

4. Add the correct amount of **CLETHODIM 360EC Herbicide**. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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 remix 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.

### **CLETHODIM 360EC HERBICIDE AND A HERBICIDE CONTAINING ONLY IMAZETHAPYR (E.G., PURSUIT 240):**

**FIELD PEAS: CLETHODIM 360EC Herbicide** may be tank-mixed with a herbicide containing only imazethapyr 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 imazethapyr herbicide product label.

**Time of Application:** Field peas may be treated up to the sixth (6th) trifoliate leaf stage. Apply when volunteer wheat, volunteer barley, wild oat 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:** **CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with an imazethapyr herbicide product at 50.4 g ai/ha or and AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

**Weeds Controlled:** Wild oat, green foxtail, volunteer barley, volunteer wheat plus the weeds as listed on the imazethapyr herbicide product 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 **CLETHODIM 360EC Herbicide** and an imazethapyr herbicide product for once over grass and broadleaf weed control in field peas, add the correct amount of the imazethapyr herbicide product. Continue to agitate.
4. Add the required amount of **CLETHODIM 360EC Herbicide** to the tank. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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.

**CLETHODIM 360EC HERBICIDE AND MUSTER®:**

**CANOLA: CLETHODIM 360EC 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: CLETHODIM 360EC Herbicide** at 0.125 L/ha tank-mixed with MUSTER at 20 or 30 g/ha and AMIGO Adjuvant at 0.5 % v/v or JOURNEY HSOC at 0.5% v/v.

**Weeds Controlled:**

**Muster at 20 or 30 g/ha:** Wild oat, green foxtail, volunteer barley, volunteer oat, 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 **CLETHODIM 360EC Herbicide**. Continue to agitate.
5. Add the correct amount of AMIGO Adjuvant or JOURNEY HSOC 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 **CLETHODIM 360EC Herbicide** and AMIGO Adjuvant.
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.

**CLETHODIM 360EC HERBICIDE AND LIBERTY® 150 SN HERBICIDE or INTERLINE™ HERBICIDE or JUSTICE™ – PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING PEACE RIVER REGION) ONLY:**

**CANOLA: For use on Glufosinate Ammonium tolerant canola varieties only (e.g. varieties or hybrids labelled LIBERTYLINK).**

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**CLETHODIM 360EC Herbicide** may be tank-mixed with LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE for control of certain broadleaf and grass weeds in glufosinate ammonium tolerant canola varieties in one spray operation. For ground applications, apply in a minimum of 110 L/ha spray volume at a pressure of 275 kPa. For aerial applications apply this tank-mix in a minimum of 55 L/ha spray volume at a pressure of 300 kPa.

Follow all precautions, limitations and timing recommendations on the LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE label.

**RECOMMENDED APPLICATIONS:**

Products	Rate / ha	Weeds Controlled	Time of Application
CLETHODIM 360EC HERBICIDE + LIBERTY 150 SN HERBICIDE or INTERLINE HERBICIDE or JUSTICE + AMIGO Adjuvant or JOURNEY HSOC	42 mL/ha + 2.67 or 4.0 L/ha + 0.5% v/v	Wild oat, green foxtail, volunteer barley, volunteer wheat, volunteer oat plus all remaining grass weeds and broadleaf weeds listed on the LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE label at the application rates of 2.67 and 4.0 L/ha.	Glufosinate ammonium tolerant canola varieties may be treated from the cotyledon stage up to the early bolting stage.  Apply when the wild oat, volunteer wheat, volunteer oat and green foxtail are in the 1- to 5-leaf stage.  Refer to the LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE label for application timing on all remaining grass and broadleaf weeds for 2.67 or 4.0 L/ha.
CLETHODIM 360EC HERBICIDE + LIBERTY 150 SN HERBICIDE or INTERLINE HERBICIDE or JUSTICE + AMIGO Adjuvant or JOURNEY HSOC	125 mL/ha + 3.33 or 4.0 L/ha + 0.5 % v/v	Weed species listed on the CLETHODIM 360EC Herbicide and LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE labels plus foxtail barley, spring- germinated Japanese brome, spring- germinated downy brome.	Glufosinate ammonium tolerant canola varieties may be treated from the cotyledon stage up to the early bolting stage.  Apply when the weeds are at growth stages listed on the CLETHODIM 360EC Herbicide and LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE labels, foxtail barley is at the 1- to 4- leaf stage

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			maximum of 2 tillers and spring germinated Japanese and downy brome are at the 1- to 6-leaf stage up to the emergence of the 1 <sup>st</sup> tiller stage.
Facet L + CLETHODIM 360EC HERBICIDE + LIBERTY 150 SN HERBICIDE or INTERLINE HERBICIDE + AMIGO Adjuvant or JOURNEY HSOC	0.28 L/ha + 42, 83, or 125 mL/ha + 3.33 L/ha + 0.5 % v/v	For enhanced and more consistent control of cleavers and annual grasses.	Apply in 100 L/ha of water. Application should be made from the 2 to 6 true leaf stage of the canola crop.

**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 AMIGO Adjuvant or JOURNEY HSOC to the tank. Continue to agitate until thoroughly mixed.
4. STOP agitation. Add the correct amount of LIBERTY 150 SN Herbicide or INTERLINE Herbicide or JUSTICE to the spray tank. Start agitation system.
5. Add the correct amount of **CLETHODIM 360EC 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

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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.

**CLETHODIM 360EC HERBICIDE AND LIBERTY® 200 SN HERBICIDE– EASTERN CANADA AND BRITISH COLUMBIA ONLY**

**CANOLA: For use on glufosinate ammonium tolerant canola varieties only (e.g. varieties or hybrids labelled LIBERTYLINK).**

**CLETHODIM 360EC Herbicide** may be tank-mixed with LIBERTY 200 SN Herbicide 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 200 SN Herbicide 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 oat, volunteer wheat, volunteer oat and green foxtail are in the 1 to 5 leaf stage. Refer to the LIBERTY 200 SN Herbicide label for application timing on all remaining grass and broadleaf weeds for 2.0 or 2.5 L/ha.

**Application Rate:** **CLETHODIM 360EC Herbicide** at 0.042 mL/ha tank-mixed with LIBERTY 200 SN Herbicide at 2.0 to 2.5 L/ha and with AMIGO Adjuvant at 0.5% v/v or JOURNEY HSOC at 0.5% v/v.

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**Weeds Controlled:** Wild oat, green foxtail, volunteer barley, volunteer wheat, volunteer oat plus all remaining grass weeds and broadleaf weeds listed on the LIBERTY 200 SN Herbicide label at the application rates of 2.0 and 2.5 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 AMIGO Adjuvant or JOURNEY HSOC to the tank. Continue to agitate until thoroughly mixed.
4. STOP agitation. Add the correct amount of LIBERTY 200 SN Herbicide to the spray tank. Start agitation system.
5. Add the correct amount of **CLETHODIM 360EC 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.

**MINOR USES**

**NOTE TO USER:**

**READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (LISTED BELOW):**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than UPL AgroSolutions Canada Inc (UPL) under the User Requested Minor Use Label Expansion program. For these uses, UPL 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

CROP	Weeds Controlled	Application Rate of <sup>1</sup> :			Remarks
		CLETHODIM 360EC Herbicide	AMIGO ADJUVANT	JOURNEY HSOC	

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<p><b>PRAIRIE CARNATION</b></p>	<p>Annual weeds listed on <b>CLETHODIM 360EC Herbicide</b> label. Refer to weed/rate chart in this label.</p>	<p>0.125 L/ha</p>	<p>0.5 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergence of weeds and crop.</p> <p>Apply a maximum of one application per year using ground equipment.</p> <p>Apply in a minimum spray volume of 110 L/ha.</p> <p>Do not harvest treated prairie carnations for human consumption.</p> <p><b>Ground application only.</b></p>
<p><b>Edamame, Edible-podded legume vegetables (Crop subgroup 6A):</b> Bean (<i>Phaseolus</i> spp.) (includes runner bean, snap bean, wax bean), Bean (<i>Vigna</i> spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean), Jackbean (<i>Canavalia ensiformis</i>), Pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea), Pigeon pea (<i>Cajanus cajan</i>), Soybean (immature seed) (<i>Glycine max</i>), Sword bean (<i>Canavalia gladiata</i>).</p> <p><b>Succulent shelled peas and beans (Crop subgroup 6B):</b></p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 L/ha</p>	<p>0.5 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> postemergence of weeds and crop.</p> <p>Apply a maximum of one application per year using ground equipment.</p> <p>Apply in a minimum spray volume of 110 L/ha.</p> <p>Observe a PHI of 21 days.</p> <p><b>Ground application only.</b></p>

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<p>Bean  <i>(Phaseolus spp.)</i> (includes lima bean, green bean), Bean  <i>(Vigna spp.)</i> (includes blackeyed pea, cowpea, southern pea), Broad bean  <i>(fava bean) (Vicia faba)</i>, Pea  <i>(Pisum spp.)</i> (includes English pea, garden pea, green pea), Pigeon pea  <i>(Cajanus cajan)</i>.</p>					
<p><b>BUCKWHEAT<sup>1</sup></b></p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 L/ha</p>	<p>0.5% v/v</p>	<p>0.5% v/v</p>	<p><b>TIME OF APPLICATION:</b>  <b>Apply CLETHODIM 360EC HERBICIDE postemergence of weeds and crop.</b></p> <p>Apply a maximum of one application per year using ground or aerial equipment.</p> <p>Apply in a minimum spray volume of 100 L/ha for ground application. Apply in a minimum spray volume of 28-55 for aerial application. Increase to 100 L/ha if grass or crop foliage becomes dense.</p> <p>Observe a PHI of 60 days.</p>



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<p><b>CHERRY (SWEET AND TART)</b></p> <p>(established trees)</p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 – 0.25 L/ha</p>	<p>0.5 - 1.0 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> to established sweet and tart cherry trees, post-emergence of weeds. Do not apply <b>CLETHODIM 360EC HERBICIDE</b> directly over the top of the trees. Direct the spray at the base of the tree where grassy weeds are growing. If <b>CLETHODIM 360EC HERBICIDE</b> is improperly applied, crop injury can occur.</p> <p>Apply a maximum of one application per year using ground equipment.</p> <p>Apply in a minimum spray volume of 100 litres of water per hectare.</p> <p>Observe a PHI of 14 days.</p> <p><b>Ground application only.</b></p>
<p><b>HIGHBUSH AND LOWBUSH BLUEBERRY</b></p>	<p><b>CLETHODIM 360EC Herbicide</b> labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 - 0.25 L/ha</p>	<p>0.5 - 1.0 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergence of weeds and crop.</p> <p>Apply a maximum of one application per year, post-emergent by ground equipment. For highbush blueberry, apply as a broadcast spray directed to the ground. For lowbush blueberry, apply as a broadcast spray over the top of the crop.</p> <p>Apply in a minimum spray volume of 100 L/ha.</p> <p>Observe a PHI of 14 days for highbush blueberry and a PHI of 30 days for lowbush blueberry.</p> <p><b>Ground application only.</b></p>

<p><b>CORIANDER, (Cilantro), CARAWAY</b></p>	<p>Labelled grassy weeds. Refer to weed/rate chart on this label.</p>	<p>0.125 - 0.25 L/ha  Refer to <b>CLETHODIM 360EC Herbicide + AMIGO</b> Adjuvant or <b>JOURNEY HSOC</b> weed/rate chart in this label.</p>	<p>0.5 - 1.0 % v/v  Refer to <b>CLETHODIM 360EC Herbicide + AMIGO</b> Adjuvant weed/rate chart in this label.</p>	<p>0.5 % v/v  Refer to <b>CLETHODIM 360EC Herbicide + JOURNEY HSOC</b> weed/rate chart in this label.</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergent when coriander is in the 2 to 5 leaf stage.  Apply a maximum of one application per year, using ground equipment.  Observe a PHI of 30 days for leaves and 60 days for seed. <b>Ground application only.</b></p>
<p><b>DILL</b></p>	<p>Labelled grassy weeds. Refer to weed/rate chart on this label.</p>	<p>0.125 - 0.25 L/ha</p>	<p>0.5 - 1.0% v/v</p>	<p>0.5% v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop when dill is in the 3-5 leaf stage. Apply a maximum of one application per year using ground equipment. Apply a minimum spray volume of 100 L/ha. Observe a PHI of 30 days for dillweed leaves and a PHI of 40 days for dill seed. <b>Ground application only.</b></p>
<p><b>CHIVE</b></p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label</p>	<p>0.125 - 0.25 L/ha  Refer to <b>CLETHODIM 360EC HERBICIDE + AMIGO</b> Adjuvant weed/rate chart in this label.</p>	<p>0.5 – 1.0 % v/v  Refer to <b>CLETHODIM 360EC HERBICIDE + AMIGO</b> Adjuvant weed/rate chart in this label.</p>	<p>0.5% v/v  Refer to <b>CLETHODIM 360EC HERBICIDE + AMIGO</b> Adjuvant weed/rate chart in this label.</p>	<p><b>TIME OF APPLICATION:</b> Apply a maximum of one application per year, post-emergent using ground equipment. Apply in a minimum spray volume of 110 L/ha.  Observe a PHI of 30 days. <b>Ground application only.</b></p>

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<p>Angelica; balm (lemon balm); basil; borage; burnet; chamomile; catnip; chervil; clary; costmary; culantro (leaf); horehound; hyssop; lavender; lovage; marigold; marjoram (includes sweet or annual marjoram, wild marjoram or oregano and pot marjoram); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay (bay leaf); tansy; tarragon; thyme; wintergreen; woodruff; and wormwood</p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 L/ha</p>	<p>0.5 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop. Apply a maximum of one application per year using ground equipment. Apply as a broadcast spray directed to the ground. Apply in a minimum spray volume of 110 L/ha.</p> <p>Observe a PHI of 30 days.</p> <p><b>Ground application only.</b></p>
<p>Anise (anise seed), caraway (black); celery seed; culantro (seed); cumin; fennel [common and Florence (seed)]; juniper berry; lovage (seed); mustard (seed); poppy (seed); and saffron</p>	<p>Labelled grassy weeds. Refer to weed/rate chart in this label.</p>	<p>0.125 L/ha</p>	<p>0.5 % v/v</p>	<p>0.5 % v/v</p>	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop. Apply a maximum of one application per year using ground equipment. Apply as a broadcast spray directed to the ground. Apply in a minimum spray volume of 110 L/ha.</p> <p>Observe a PHI of 60 days.</p> <p><b>Ground application only.</b></p>

<b>HOPS</b>	Labelled grassy weeds. Refer to weed/rate chart in this label.	0.125 - 0.25 L/ha	0.5 -1.0% v/v	0.5 % v/v	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergence of weeds and crop. Apply a maximum of one application per season, using ground equipment. Apply as a broadcast spray directed to the ground. Apply in a minimum spray volume of 110 litres of water per hectare. Observe a PHI of 21 days.</p> <p><b>Ground application only.</b></p>
<b>FENUGREEK</b>	Annual weeds listed on <b>CLETHODIM 360EC Herbicide</b> label	Refer to <b>CLETHODIM 360EC Herbicide + AMIGO Adjuvant</b> or <b>JOURNEY HSOC</b> weed/rate chart in this label.	Refer to <b>CLETHODIM 360EC Herbicide + AMIGO Adjuvant</b> weed/rate chart in this label.	Refer to <b>CLETHODIM 360EC Herbicide + JOURNEY HSOC</b> weed/rate chart in this label.	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergent when fenugreek is in the 3 to 5 leaf stage. Apply a maximum of one application per season, using ground equipment. Apply in a minimum spray volume of 100L/ha. Observe a PHI of 30 days. for leaves and seed. <b>Ground application only.</b></p>
<b>DRY BULB ONIONS, DRY BULB SHALLOT and GARLIC</b>	Labelled grassy weeds. Refer to weed/rate chart in this label.	0.125- 0.25 L/ha	0.5 % v/v	0.5 % v/v	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergent when the crop is in the 1 to 4 leaf stage.</p> <p>Apply a maximum of one application per season, using ground equipment.</p> <p>Observe a PHI of 45 days.</p> <p><b>Ground application only.</b></p>
<b>GREEN ONION</b>	Labelled weeds. Refer to weed/rate chart in this label.	0.125 - 0.25 L/ha	0.5-1.0 % v/v		<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergent when the crop is in the 2 to 3 leaf stage.</p> <p>Apply a maximum of one application per season, using ground equipment. Apply in a minimum spray volume of 110 L/ha. Observe a PHI of 14 days.</p>

					<b>Ground application only.</b>
<b>LEEK</b>	Labelled weeds. Refer to weed/rate chart in this label	0.125 - 0.25 L/ha	0.5-1.0 % v/v		<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC Herbicide</b> post-emergent at least 2 weeks after transplanting when crop is well established and has produced one new fully expanded leaf.</p> <p>Apply a maximum of one application per season, using ground equipment. Apply in a minimum spray volume of 110 L/ha. Observe a PHI of 14 days.</p> <p><b>Ground application only.</b></p>
<b>SAFFLOWER</b>	Annual weeds listed on <b>CLETHODIM 360EC HERBICIDE</b> label	0.125 - 0.25 L/ha.	0.5 - 1.0% v/v.	0.5 % v/v.	<p><b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergent when safflower is in the 6-8 leaf stage. Apply a maximum of one application per season using ground equipment.</p> <p>Apply in a minimum spray volume of 100 litres of water per hectare.</p> <p>Observe a PHI of 70 days.</p>
					<b>Ground application only.</b>

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<b>SPINACH</b>	Annual Weeds listed on <b>CLETHODIM 360EC Herbicide</b> label	Refer to <b>CLETHODIM 360EC Herbicide + AMIGO</b> Adjuvant or <b>JOURNEY HSOC</b> weed/rate chart in this label.	Refer to <b>CLETHODIM 360EC Herbicide + AMIGO</b> Adjuvant weed/rate chart in this label.	Refer to <b>CLETHODIM 360EC Herbicide + JOURNEY HSOC</b> weed/rate chart in this label.	Apply a maximum of two applications per year with 14 days between applications, post emergent by ground application when grassy weeds are in the 2 to 6 leaf stage.  Observe a PHI of 14 days.  <b>Ground application only.</b>
<b>CRANBERRY</b>	Labelled grassy weeds. Refer to weed/rate chart in this label.	0.125 - 0.25 L/ha	0.5 - 1.0% v/v	0.5 % v/v	<b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop. Do not apply between the hook stage and full fruit set. Apply a maximum of one application per year using ground equipment. Apply in a minimum spray volume of 110 L of water /ha.  Observe a PHI of 30 days.  Ground application only.
<b>GARDEN (TABLE) BEET, PARSNIP, CARROT, RADISH, RUTABAGA, CELERIAC</b>	Labelled grassy weeds. Refer to weed/rate chart in this label.	0.125 - 0.25 L/ha	0.5 - 1.0% v/v	0.5 % v/v	<b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop using ground equipment. Apply a maximum of two applications per year. If repeat application is required, allow at least 14 days between first and second application.  <b>Do not apply more than 0.25 L/ha (90 grams ai/ha) per crop season.</b>  Apply in a minimum spray volume of 110 L/ha.  Observe a PHI of 30 days.  <b>Ground application only.</b>
<b>CELERY, CHINESE CABBAGE (NAPA) 1</b>	Labelled grassy weeds. Refer to weed/rate chart in this label.	0.125 - 0.25 L/ha	0.5-1.0% v/v	0.5 % v/v	<b>TIME OF APPLICATION:</b> Apply <b>CLETHODIM 360EC HERBICIDE</b> post-emergence of weeds and crop. Apply a maximum of one application per year using ground equipment.  Apply in a minimum spray volume of 110 L/ha.

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					Observe a PHI of 30 days. <b>Ground application only.</b>
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<sup>1</sup> Choose either AMIGO Adjuvant or JOURNEY HSOC

## **HERBICIDE RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, **CLETHODIM 360EC Herbicide** is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to **CLETHODIM 360EC 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 **CLETHODIM 360 EC 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 weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact UPL AgroSolutions Canada Inc 1-800-438-6071.

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